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Department of Civil Engineering

3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the year

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
A review on enhancing terms of social housing in construction industry	Dr.D.B. Desai	IJSREM	2022	ISSN 2582:3930	https://ijsrem.com/download/effective-use-of-human-resource-development-for-improving-productivity-in-construction-industry-a-review/
Effective use of human resource development for improving productivity	Dr. D. B. Desai	IJSREM	2022	ISSN 2582:3930	https://ijsrem.com/download/effective-use-of-human-resource-development-for-improving-productivity-in-construction-industry-a-review/
A review of critical success factors in construction industry	Dr. D. B. Desai	IJCS	2022	ISSN 2250:1770	https://www.ijcspub.org/papers/IJCSP22C1158.pdf
Use of Agricultural material for effective industrial noise reduction in textile industries	Dr. D. B. Desai	IJIRE	2022	ISSN 2582:8746	http://ijarse.com/images/fullpdf/1474358966_598ijarse.pdf
Groundwater potential & recharge zones mapping using remote sensing & GIS for Kadegaon Taluka,Maharashtra,India	Dr. D. B. Desai	IJCEAE	2022	P-ISSN: 2707-8361	https://www.civilengineeringjournals.com/ijceae/article/19/3-1-9-470.pdf

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Critical success factors in construction project	Dr. D. B. Desai	IJCS	2022	ISSN: 2250-1770	https://www.ijcspub.org/papers/IJCSP22C1158.pdf
Developing skills for successful leader	Dr. D. B. Desai	IJSREM	2022	ISSN 2582:3930	https://ijsrem.com/download/effective-use-of-human-resource-development-for-improving-productivity-in-construction-industry-a-review/
Labour productivity : A survey	Dr. D. B. Desai	IJEAST	2022	ISSN 2455-2143	https://www.ijeast.com/papers/170-171,%20Tesma0702,IJEAST,%2017034.pdf
Slip formwork	Dr. D. B. Desai	IJEAST	2022	ISSN 2455-2143	https://www.ijeast.com/papers/158-160,%20Tesma0702,IJEAST,%2017004.pdf
Recycling of sewage water for apartment	Dr. D. B. Desai	IJEAST	2022	ISSN 2455-2143	https://www.ijeast.com/papers/154-157,%20Tesma0702,IJEAST,%2016999.pdf
Construction site inspection by using drone or UAV	Dr. D. B. Desai	IJEAST	2023	ISSN 2455-2143	file:///C:/Users/Administrator/Desktop/101-103,%20Tesma0711,IJEAST.pdf
Groundwater potential & recharge zones mapping using remote sensing & GIS for Kadegaon Taluka,Maharashtra,India	Dr.J.S.Lambe	IJCEAE	2022	P-ISSN: 2707-8361	https://www.civilengineeringjournals.com/ijceae/article/19/3-1-9-470.pdf
SOIL STABILIZATION BY USING HIGHLY VULCANIZED RUBBER SHEET:	Dr.J.S.Lambe	WCSEM	2023	(ISBN : 978-93-95470 -	https://wcsem.co.in/612-2/

"Use of plastic in bitumen for construction of road"	Prof.Mrs.A.P. Chougule	WCSEM	2023	(ISBN : 978-93- 95470 - 52-0)	https://wcsem.co.in/612-2/
"UTILIZATION OF PLASTIC WASTE IN PAVING BLOCKS"	Prof.Mrs.A.P. Chougule	WCSEM	2023	(ISBN : 978-93- 95470 - 52-0)	https://wcsem.co.in/612-2/
DESIGN OF SLOPE STABILIZATION SCHEME IN JOTIBA HILL REGION	Shruti S khot	WCSEM	2023	(ISBN : 978-93- 95470 - 52-0)	https://wcsem.co.in/612-2/
"Biodegradable Material Management in Dr. J.J. Magdum College Of Engineering Campus"	Prof. D. A. Latthe	WCSEM	2023	(ISBN : 978-93- 95470 - 52-0)	https://wcsem.co.in/612-2/
Study on the impact of textile industry effluents of Ichalkaranji city on the water quality(Water quality of Panchganga River at Ichalkaranji)	Sneha P Madnaik	GIS SCIENCE JOURNAL	2023	ISSN NO : 1869-9391	https://wcsem.co.in/612-2/
Investigation of COVID-19 Effect on Material Cost Used in Construction within Maharashtra State (India)	Prof. V.A.Patil,	IJIRSET	2022	ISSN 2319:8753	

Prof. Arati Chougule
FDC Coordinator(Civil)

Dr. J. J. Magdum College of Engineering

Dr. J. S. Lambe
HOD, Civil Engineering

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Department of Civil Engineering

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
SOIL STABILIZATION BY USING HIGHLY VULCANIZED RUBBER SHEET: A REVIEW	Dr.J.S.Lambe	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
"Use of plastic in bitumen for construction of road"	Dr.J.S.Lambe	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
"UTILIZATION OF PLASTIC WASTE IN PAVING BLOCKS"	Dr.J.S.Lambe	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
Review on the impact of using eggshell powder in concrete to accelerate the hydration process of cement paste	Dr.J.S.Lambe	GIS science journal	2023	ISSN: 1869-9391	https://gisscience.net/volume-10-issue-6-2023/
Causes of accident & its impact on construction work	Dr.J.S.Lambe	IJAEM	2023	ISSN:2395/5252	
PROJECT MANAGEMENT IN CONSTRUCTION BY USINGPRIMAVERA P6 SOFTWARE	Prof.A.S.Sajane	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
Cracks In Construction Causes Prevention And Repair	Prof.A.S.Sajane	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
"Use of plastic in bitumen for construction of road"	Prof.Mrs.A.P. Chougule	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
"Utilization of plastic waste in paving blocks"	Prof.Mrs.A.P. Chougule	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/

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DEPARTMENT OF CIVIL ENGINEERING

Design of slope stabilization scheme in jotiba hill region	S S khot	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
"Biodegradable Material Management in Dr. J.J. Magdum College Of Engineering Campus"	Prof. D. A. Latthe	WCSEM	2023	(ISBN : 978-93-95470 -52-0)	https://wcsem.co.in/612-2/
Study on the impact of textile industry effluents of Ichalkaranji city on the water quality(Water quality of Panchganga River at Ichalkaranji)	S P Madnaik	GIS SCIENCE JOURNAL	2023	ISSN NO : 1869-9391	https://wcsem.co.in/612-2/
Application of microsurfing tech for optimising maintainance cost of rigid pavement in india	Prof.V.A Patil	ICSSMT	2023		
Application of microsurfing tech for optimising maintainance cost of rigid pavement in india	Prof.V.A Patil	ICSSMT	2023		
Review on the impact of using eggshell powder in concrete to accelerate the hydration process of cement paste	Prof.V.A Patil	GIS science journal	2023	ISSN: 1869-9391	https://gisscience.net/volume-10-issue-6-2023/

Prof. Arati Chougule
FDC Coordinator(Civil)

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Dr. J. S. Lambe
HOD, Civil Engineering

Doctorate Publications

11th WCSEM June 2023 An Industry Skills Oriented Research Articles

Design Of Slope Stabilization Scheme In Jotiba Hill Region

Shruti S Khot, Vinayak Krishnat [illegible], Pradnya [illegible], Mehul [illegible]

[1]Department of Civil Engineering, Dr. J J Magdum College of Engineering, Jaysingpur,
shruti.khot@ [illegible]

[2]Final YearB.Tech student, Department of Civil Engineering, Dr. J J Magdum College of Engineering, Jaysingpur.

Vinayak [illegible]@gmail.com

3 Final YearB.Tech student, Department of Civil Engineering, Dr. J J Magdum College of Engineering, Jaysingpur.pradnya [illegible]@gmail.com

3 Final YearB.Tech student, Department of Civil Engineering, Dr. J J Magdum College of Engineering, Jaysingpur.Mehulmangaonkar [illegible]@gmail.com

Abstract— This report focuses on prevention of landslide by slope stabilization. A landslide is a serious geological hazard caused when masses of rock, earth and debris flow down a steep slope during period intense rainfall. The western Ghat of India [illegible]. The material may move by falling, toppling, sliding, spreading, or flowing. Some landslides are rapid, occurring in seconds, whereas some may take hours. This report aims to stabilize the slope of Jotiba hill region. We conducted various field tests and some lab tests on the sample collected from the site. From the results obtained we analyzed the data by using slide software to find stability of the slope. From the software analysis it is found that Reprofiling and Reprofiling [illegible] the two solutions for slope stabilization. [illegible] economy at a same time for better prevention of landslide.

Keywords— Landslide, Slide software, Reprofiling, Soil Nailing

INTRODUCTION

The study is about to provide various slope stabilization schemes for landslide prevention. Landslides causes the severe loss of life and economy. In recent years Maharashtra has witnessed various landslides like Malin village in Pune district, Taliye village in Raigadh district and many others. These landslides caused loss of lives of hundreds of people. These landslides mostly occurred in rainy season because of additional water pressure. Hence rainy season becomes scary for various villages. To prevent these types of disasters we need a proper solution which should be economical as well. Government provides various preventive measures to these villages. Some villages get rehabilitated. Slope stabilization is done on tendering basis. Various consultancies provide a slope stabilization schemes for these types of sites. Slope stabilization of landslide prone areas [illegible] saving the lives of people. This [illegible] prone area.

DoctoratePublications

11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

(ISBN : 978-93- 95470 -52-0)

PROJECT MANAGEMENT IN CONSTRUCTION BY USINGPRIMAVERA P6 SOFTWARE

JADHAV PRANJALI PRAKASH[1] , JAGTAP KARUNA PRAKASH[2] , JOYASHI SAYALI SANTOSH[3] , A.S SAJANE[4]

[1,2] Research Scholar, Dept of Civil Engineering, Dr.J. J. Magdam college of EngineeringJaysingpur, Jaysingpur – 416 101

Assistant Professor , Department of Civil Engineering

Dr. J. J. Magdum College of Engineering, Jaysingpur – 416 101

Email: jadhavpranjali601@gmail.com

ABSTRACT

The construction industry is an integral and developing part of nation's infrastructure and industrial growth. In that construction sector construction manager has to deal with lots of challenges regarding time management and its limitations. Primavera P6 is one of the software which is used for the managementof construction activities. In this project, we carried out planning, scheduling, controlling, resource allocation and time management by primavera p6 software for mivan construction.

Primavera software has been use because of it use for large projects and fives comparable and optimum project plans to stimulate the adjustments. The wide acceptance of this software, especially in industries of developing cities has made the project managers to easily handle the large projects effectively. Effective time planning, is very important in determining the success of any project, poor planning and controlling of project will causes delay. To overcome this time running problem analysis can be done by using the primavera p6 software. This software gives better quality of construction management process and easily understanding results.

Key words: Mivan, primavera p6, software, planning4,resource allocation, etc.

INTRODUCTION

Large construction project with huge budget it becomes very difficult for the project team to handle the task so it becomes very necessary to provide tool in handof project tool team that keep a track a activities. It helps in planning, schedulingand controlling effectively. In todays world great importance is givento a speedy construction practices. so mivan technology is one of them. Primavera p6 software is used to track and trace the activities of a G+7 mivan construction building.

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"REVIEW ON THE IMPACT OF USING EGGSHELL POWDER IN CONCRETE TO ACCELERATE THE HYDRATION PROCESS OF CEMENT PASTE

Vinayak Dattatray Gadekar, Nitin Baburao Jagadale, Dr. Jagdish Landge, Anuradha A. Patil

[illegible]

[illegible]

[illegible]

[illegible] final year student of Department of Civil Engineering, Dr. J.J. Magdum College of Engineering, Jaysingpur

nitinjagadale[illegible]@gmail.com

Department of Civil Engineering, Dr. J.J. Magdum College of Engineering, Jaysingpur

jagdish.landge@[illegible].ac.in

Department of Civil Engineering, Dr. J.J. Magdum College of Engineering, Jaysingpur

[illegible]@jjmcoe[illegible]

Abstract – [illegible] the eggshell powder. Literature study is carried out for the [illegible] strength [illegible] cement in development of strength and [illegible] materials for cement used to prepare concrete are partially or fully replaced [illegible] focus to increase the compressive strength. At the same time [illegible] itself a great leading for sustainable [illegible]

Keywords- Heat of Hydration, Eggshell Powder, Bogue Compounds

INTRODUCTION

When the cement is added into water, the heat is generated. This process of [illegible] of heat is called as heat of hydration. Basically it is exothermic process. At the same time [illegible] the quality to gain the compressive strength. The thermal early age cracking [illegible] concrete at tensile loading. Tricalcium silicate (C3S) reacts with the [illegible] to ensure the hydration process and contribute in development of compressive strength. The current study [illegible] methods adopted to visualize the hydration process and improvement in cement paste [illegible] addition of eggshell powder against compressive loading.

OBJECTIVES

[illegible]

[illegible]

LITERATURE REVIEW

Shaosen Zhang a, Nan Zhang a, Canlian Yin b, Yunpeng Ye a, Xingong Li a, Study on the suitability of rice straw and silicate cement, Case Studies in Construction Materials 18 (2023) e01798, 2023, DOI: https://doi.org/10.1016/j.cscm.2022.e01798

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SOIL STABILIZATION BY USING HIGHLY VULCANIZED RUBBER SHEET: A REVIEW

Dr. Jagdish Lambe[1], Ajinkyaraj Raut[2], Suraj Jadhav[3] and Sajid Mullani[2]

[1]Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, jagdish.lambe@jjmcoe.ac.in

[2] Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, ajinkyarajraut@gmail.com

3 Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur,

surajjadhav3125@gmail.com

. Final YearB.Tech. student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur.

sajidmullani99@gmail.com

Abstract— The road networks in India span an extensive 59, 03,293 km, making them a crucial aspect of the country's infrastructure. To improve road construction methods, a project has been proposed to replace the conventional base course of Water Bound Macadam (WBM) roads with rubber and steel stacked mats. India generates over 1 million tonnes of rubber tire waste annually, with approximately 60% of it being recycled. Additionally, about 15 million tonnes of rubber tyre waste is produced in the country. The choice of rubber and steel for the mats is based on their desirable properties: rubber provides flexibility, while steel offers high strength to bear the load from the road surface.

The methodology involves creating the mats by combining rubber and steel back-to-back, with grooves at regular intervals for rolling. These prepared mats are then placed over the sub base course and rolled. To increase the soil's density and bearing capacity, holes are made in the mats, allowing soil particles to fill them when the mats are inserted into the ground. Fine courses are subsequently dumped and rolled over the mats. The mats used in this approach are easily transportable as they can be rolled up. Moreover, by employing this mat system, the compaction period for the base course can be eliminated. It is important to note that this proposed methodology is specifically intended for Water Bound Macadam roads. By adopting this approach, the overall time required for road construction is reduced, waste tires are effectively recycled, and the overall project cost is minimized. The end result is an efficient road that can be constructed within a shorter timeframe.

Keywords— Soil Stabilization, Highly volcanized rubber sheet, Construction technique

INTRODUCTION

Soil modification plays a significant role in achieving the desired soil properties for construction purposes. Soil modification involves altering or improving the properties of the soil to make it more suitable for construction work. Various techniques and methods are employed to modify soil, depending

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11th WCSEM – June 2023 An Industry Skills Oriented Research Articles

ISBN : 978-93-95476-52-0

"UTILIZATION OF PLASTIC WASTE IN PAVING BLOCKS"

Prof.Mrs.Arati Chougule[1], Dr. Jagdish Lambe[2] and Mr. Prathmesh Patil[3]

[1] Assistant Professor Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur. jagdish.lambe@jjmcoe.ac.in

[2] Associate Professor & Head of Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur. arati.chougule@jjmcoe.ac.in

3 Final YearB.Tech student, Department of Civil Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur. prathmeshpatil@gmail.com

Abstract--A large number of plastic wastes have been collected from several places such as tourist and public places etc., High density polyethylene bags are collected, cleaned, and used as a replacement for cement in the manufacturing of Paver Blocks. Plastic waste is available in large quantity and hence the cost factor comes down. When we have the use of plastic then we can use the reuse, recycle and reduce. Be mindful of what you do; pay attention to the items you buy, and always check yourself to see if you need it or if it comes in a package with less waste.

Keywords-- Paver block, Plastic waste, Ceramic Waste, Compressive Strength

INTRODUCTION

Plastic is evil. You can hardly do away with it. Every day we use plastic in daily lifestyle that is Garbage, coffee cup, electronic material, plastic bags Etc. so plastic is very harmful to humans, animals, marine and as well as to environment. But where is all the plastic going? It would be startling to note that billions of tons of plastic are ending up in the world's oceans. Pollution caused by plastic is not only harmful to marine life but is also affecting the health of humans. The harmful chemicals like PCBs, DDT, and PAH, which get absorbed in the plastic debris that floats in the seawater, have a varied and harmful range of chronic effects like endocrine disorders. The toxins are transferred in the food chain as they get absorbed in the animals' bodies after they eat the plastic pieces. Human beings consume these contaminated fish and mammals. Plastic pollution is affecting the global economy. It is destroying the fishing and aquaculture industries. Plastic is mostly produced by household, tourism and trekking etc. In many countries, the composition of Waste is different that it is affected by the socioeconomic characters, waste management programs, and consumption patterns, but generally, the level of plastic in the waste composition is high. One of the largest components of plastic waste is polyethylene which is followed by polypropylene.

Definition of Plastic Looking to the global issue of environmental pollution by post-consumer plastic waste, research efforts have been focused on consuming this waste on a massive scale in an efficient and environmentally friendly manner. Plastic contains in solid as well as in finished state.

GENERATION - India generates 5.6 million metric tons of plastic waste annually, with Delhi generating the most of at municipality at 689.5 metric tons every day, according to a report from the Central Pollution Control Board (CPCB). CPCB submitted the report to the Indian Supreme Court which said: "We are sitting on a plastic time bomb."

Department of Computer Science and Engineering

B.Tech CSE 2022-23

Students Publications

Grou	Name of Student	Topic Name	Journal
G1	**pratiksha Gavali(L)** Neha Chavan Hasnain Lakhani Bishal Malakar	Chattery The Chatbot	IJIRCCE, VOL 11, Issue 4
G2	**Jivan Ananda Patil(L)** Tejas Adhik Shinde Pratik Parashram Jadhav Shreyas Sunil Kamble	Location Based Advertisement Using Location Based Advertisement Using	IJIRCCE, VOL 11, Issue 4
G3	**Snehal Shivshant Patil(L)** Vivek Sanjaykumar Admuth Rushikesh Krishna Patil Nischay Pradip Bhokare	Construction Site Inspection by Using Drone or UAV	IJEAST, Vol 7 Issue 11 ISSN: 2455-2143
G4	**Vinayak Rajendra Sutar(L)** Ajit mali Mayuresh Mahesh Pujari Sandesh Rajgonda Patil MORE PRAJAKTA CHANDRA	Face Detection Attendance System	IJIRCCE, VOL 11, Issue 5
G5	**Sanmay Anil Majlekar(L)** Prem Subhash Hogade Sourabh Shivkumar Keshar Vishwjeet Vijay Powar	Smart Electric Vehicle Charging Station	IJIRCCE, VOL 11, Issue 4
G6	**Saurabh Shivaji Daware(L** Priyanka Mahadev Bamnale Aishwarya Ashok Patil Ruchita Uddhav Bhosale AVADOBA SHAILESH KESHA	Urban Emeregency Event Detection Using Social Media	NCETET-2023, ISBN:978-93-91535-44-5
G7	**Mahesh Siddhu Dhangar(L** Aniket Govind Todkar Pratik Rajendra Jatrate Sourabh Bapuso Kole BHANDARE ABHISHEK SANJ	E-Healthcare Cloud Solution	IJARCCE, Vol 12, Issue 4
G8	**Shraddha Rajendra Kore(L** Sonika Hanmantrao Mahind Takshak Vikram Desai Komal Dewadas Dhok	Exploring DevOps Culture in Jewellery Web Application	IJIRCCE, VOL 11, Issue 3
G9	**Aakanksha Kumbhar(L)** Siddhi Shrirang Kundale Rutuja Vijay patil Tanuja Shivaji Sawant	Smart Shopping Trolley	IJIRCCE, VOL 11, Issue 4
G10	**Manali Balasaheb Narute(L** Sakshi Anil Patil Karan Pandurang Kumbhar Rija Kudartali Bagwan	Weather Forecasting and Air Quality Analysis	IJIRCCE, VOL 11, Issue 3
G11	**Harshwardhan Shinde(L)** Siddharth Ashok Khubikar Abhishek Deelip Unde Shreyas Haridas Shirke	E-Prescription using Speech-Recognition	IJIRCCE, VOL 11, Issue 3
G12	**priyanka uttam yedage(L)** uttara uday repe rutuja uttam patil UTTURE OMKAR ANIL	Activity Recognition System for Smart Campus	IJRASET, Vol 11 Issue 3
G13	**Harshal Rajgonda Chando** Radhika Raosaheb Bhosale Nutan Rajendra Sawant	Male VIKAS Coopravtive Society	IJIRCCE, VOL 11, Issue 4

	Aditi Suresh Patil		
G14	**Nihal Jamil Shaikh(L)**	IoT based Advertising Display	IJIRCCE, VOL 11, Issue 5
	Harshvardhan Rajendra Pat		
	Prathamesh Vishnu Rokade		
	Pramod Vijay Powar		
G15	**Prajakta Shashikant Patil(**	Video Summarization of Surveillance Camera Using MobileNet	IJIRCCE, VOL 11, Issue 3
	Amruta Shinde		
	Purva Takale		
	Sanket Patil		
G16	**Pournima Adgane(L)**	Smart Electric Vehicle Charging Station	IJIRCCE, VOL 11, Issue 4
	Isha Patil		
	Sakshi Jagdale		
	Kiran Narute		
G17	**Snehal Bhanase(L)**	Women Security Android Application	IJSEDR, ISSN:2455-2631, vol 8 Issue 5
	Kshitija Chavan		
	Pranav Gidde		
	Siddhesh Godhade		
G18	**Sadiya Ramjan Nadaf(L)**	Basecamp (Kanban Board)	IJSEDR, ISSN:2455-2631, vol 8 Issue 4
	Rutuja Tanaji Kamble		
	Dhanashri Nilkanthrao Ghat		
	Pratiksha Rajendra Jangam		
G19	**Kedar Indrajeet Sutar(L)**	Diabetes Prediction Using Machine Learning Techniques	IJIRCCE, VOL 11, Issue 4
	Roshankumar Nayaku Lava		
	sankita katekar		
	Joya shaikh		
G20	**Samruddhi Dixit(L)**	"Thyroid Prediction Using Machine Learning"	IJRAR, Vol 10, Issue 2
	Kranti Wani		
	Anjali Mali		
	Sonali Mohite		
	Snehal Shivshant Patil(L)	COV-CARE AND CURE	IJEAST, Vol 6 Issue 9 ISSN: 2455-2143
	Aishwarya Ashok Patil		
	Ruchita Uddhav Bhosale		
	AVADOBA SHAILESH KESHA		

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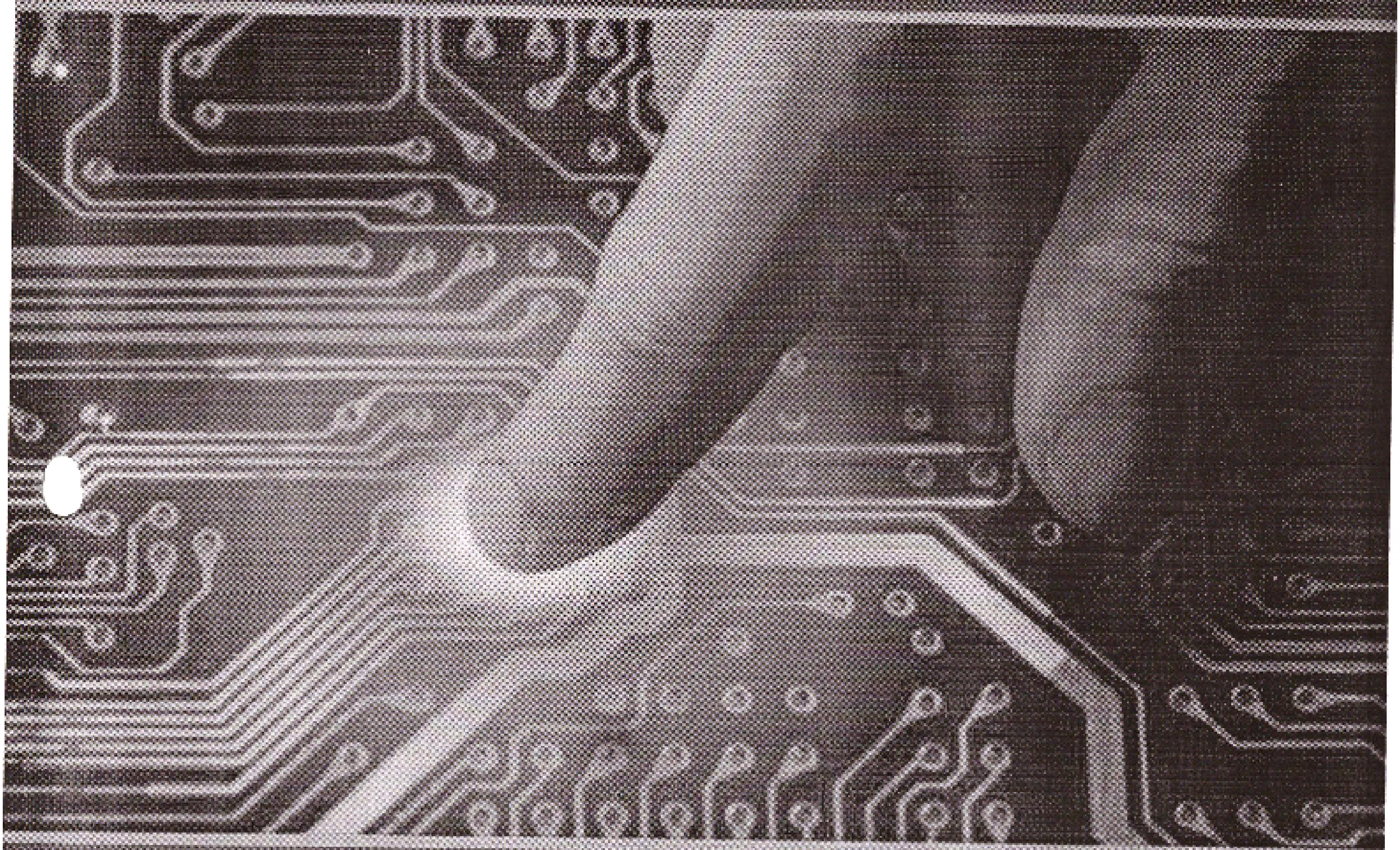

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| DOI: 10.15680/IJIRCCE.2023.1104015 |

Location Based Advertisement Using Geofencing

Prof. Mrs. S. A. Narde, Jivan Ananda Patil, Tejas Adhik Shinde,Pratik Parashram Jadhav, Shreyas Sunil Kamble

Department of Computer Science & Engineering, Dr.J.J.Magdum College of Engineering, Jaysingpur, India

ABSTRACT: A geo-fence is an virtual barrier that surrounds a physical region. A geo-fence can be created based on the user's requirements by taking various radius factors into account, or it can simply be a predefined set of boundaries.Geofencing is an innovative technology, an online marketplace for proactive contextual services that allows users to easily find interesting services, can easily subscribe to it and to allow providers offer their services for a variety of applications Geo-fencing is use of geo-fence. The global positioning system (GPS) is a feature that is used to determine geographic borders.It has a vastly expanding range. Relatively very few applications deal with geo-notifications, which are meant to proactively inform mobile and stationary users of location-specific information. Geo-fencing is the name of the technology that underlies proactive location-based services. The main objective of this research was to understand how the use of spatial data can improve advertising performance for customers. Tracking systems and monitoring, based on global navigation services by satellite, and include geofencing function, could also contribute to the exact location of an institution or company and increase sales and business perspective efficiently. Instead of large billboards they can now advertise on smartphones which is economically and accurately tested.

KEYWORDS:- Geo-fencing, Location Based Services, Global Positioning System(GPS), Geo-notification.

I. INTRODUCTION

Geofencing hospitality is a prototypical geofence-enabled mobile application for the android mobile operating system. It consists of an exemplary user interface for activating respectively deactivating the geofencing service and a component that deals with positioning and communication. The core purpose is to demonstrate the feasibility of our approach in general.

Geofencing is a method of defining a virtual barrier on a real geographical location. Mobile marketing has been taken to the next level with geofence, which gives hotels the ability to advertise specifically to potential customers within certain geographic radius. Geofencing constructs a virtual boundary around a business location using a combination of technologies including GPS & RFID. Geofencing area can be as small as 50 meters and as large as an entire city. Geofencing technology defines a virtual boundary around a real-world geographical area and by doing so, a radius of interest is established that can trigger an action in a geo-enabled phone or other portable electronic device. Geofencing helps you in keeping control of your business by notifying you when a potential consumer is passing by your hotels, by a competitors, or entering into a predefined area.

Location tracking is the precursor to geofencing and everything that has anything to do with geo specific marketing. To get it working, you need to use a mapping product like Google map to map out the regions you want to geofence. This region can be in a circular shape in most cases. Once your desired region is mapped out for geofencing, you can then target your consumers via their mobile phones GPS. Then you can monitor your geofence through the day for potential prospects or customers who might be interest Smarted in your offer. It keeps to track them until that to go out Geo-fencing is a location-based service that allows marketers to send messages to smart phone users who enter a predefined geographical area. This helps them to target the foot traffic in the vicinity of a point-of-interest. Marketing messages can be personalized to each user segment and can be auto-triggered on entry/exit from a geo-fence. A geo-fence is a virtual perimeter for a real-world geographic area.

Our prototype is based upon the idea to transform each specification of geofence scenario into a complex event pattern which interns serves as the parameterization of the stream processing system. The problem to determine if

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mobile device passed a sequence of geofences in a certain temporal order and within defined time constraints is thereby mapped onto the problem to find particular event pattern within device specific

II. METHODOLOGY

A. **Geofence**

Geofence is defined in the form of a area that uses longitude, latitude and some form of area description. A geofence is not only defined as a circle but in many cases are only available as a circle. We will use only circles from now on so when we write gefoence we will mean a circular geofence. Another important aspect of the geofence is that it must be a representation of an area in the real world.

B. **Geopush**

Geopush is short for geofence push. A geopush notification is a push message that contains information that is dependent on a geofence location. This means that a geofence location transition must trigger the geofence push. Geopushes can come directly from a server, as it was done in the past. Technically a geopush can be simulated by the OS without the need to get it from a server but when reading online many will assume that if you use geopush that the message comes directly from a server.

C. **Geotrigger**

Geotrigger is short for geofence trigger and is almost the same as a geopush notification but refers to the state change rather than the message to the user which means a geotrigger triggers a geopush notification. Important to know for this thesis is that a geotrigger in my application will be triggered locally on the phone and not on a server.

D. **Geofence transition**

There are three different transitions that can occur.

1) **Enter transition:** This means that most of the area that our given position and its accuracy spans are inside the geofence, and last time I checked I where outside the geofence. In other words I have entered a geofence.

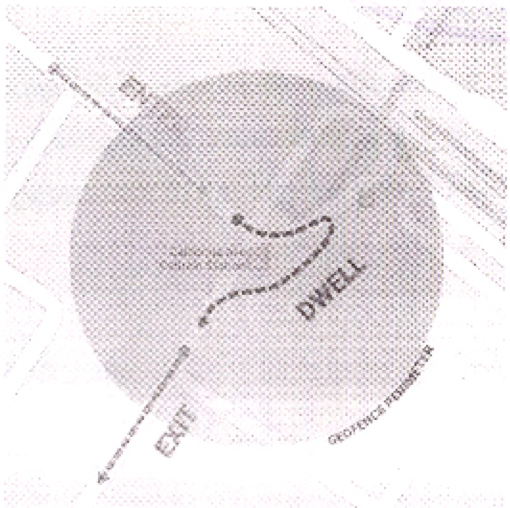

Fig.1 Showing the Geofence transitions

2) **Exit transition:** this means that most of the area that our given position and its accuracy spans are outside the geofence, and last time I checked I where inside the geofence. In other words, I have exited a geofence.

3) **Dwell transition:** this means that most of the area that our given position and it's accuracy spans are inside the geofence, and last time, I checked I where inside the geofence. In other words, I am dwelling inside a geofence.

Proposed System

This system intends to create and deploy a mobile application for hospitality businesses that supports the Geofencing technology. The approach here is "Monitoring of targets with respect to geofences that need to be passed in a specific defined order to trigger a geo-notification". The purpose of this system is to use geofencing APIs for small and medium business to promote their products and services which would boost their business generating more revenue. The designed application will trigger notification depending on the location of an entity and whether they are entering, dwelling or exiting the geofence. Geofencing boundaries are defined in radius. The radius for Geofences is specified between 100 and 200 meters. The Usage of two geofence triggers: One that activates when a device enters a geofence and another that does the same when it leaves one. The Geofencing API cleverly makes use of the sensors on the device to precisely pin point the location of the device. The broadcast receiver can instruct an app to

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begin working in the background or, if preferred to emit a notification. Someone who is visiting to new places wants to learn about the offers that are currently being offered there. The main objective of the Geofencing Hospitality is to create and market a mobile application that enables businesses to make avail the customers a better deal by sending offers through notification when they enter a geofenced area. The application provides various levels of interaction which are triggered by the geofences. Geofencing Hospitality provides the users with the best deals available at desired locations and helps stakeholders to target the customers when enters the geofenced area.

Literature Survey

The location-based services (LBS) have recently undergone a massive shift in popularity. The emergence of GPS receivers on the mobile devices has now made it much possible for the first time that proactive monitoring services or having to install many different applications for the same type of LBS's. companies need to invest in advertising to raise awareness of new products, prices and special offers (see informative advertising). Until recently, advertising strategies are primarily for the companies to adapt the traditional media and the nearest geofences.

In the Existing system also, the app detects the user's location through the GPS. By using the geofencing the admin can know when someone entered into the Geofence. But it has some limitations like the existing system has a clumsy interface. And In the existing system, there is no common application for the advertisement purposes for all the small & medium businesses , the big brands & franchise have their own system for advertisement purposes. The system can even be tuned to send out different messaging to match consumer preferences or special events happening in the area. This allows a company to advertise to people who are most likely to become customers, at the places where those people are most likely to be found.

Functionalities Used:

Various functional modules that can be implemented by the project will be:

1. **Geofencing System Module :** Geofencing Hospitality will be formulated on the following modules as per the requirement of administrator

A. Geofence Module : Using Google Maps to create desired location.
Creating marker of desired radius for the geofence.

- **Geofence Monitoring -** Requesting geofence monitoring (request the necessary permissions).
- **Geofencing Client** - To access the location APIs creating instance of geofencing client.
- **Create and Add Geofence –**
  ~~Geofence.Builder - To create geofence setting the desired radius, duration, and transition~~ types for the geofence.
  GeofencingRequest class and GeofencingRequestBuilder -to specify the geofences to monitor and to set how related geofence events are triggered.
- **Broadcast Receiver** - To handle a geofence transition.

B. **Notification Module :** Geofence events will be delivered by using notification channels.

- **Handle geofence transitions** –Abroadcast receiver like GeofenceBroadcastReceiver notices that the Intent was invoked and can then obtain the geofencing event.
- **Log transition details** - After detecting the transition event via the PendingIntent, the BroadcastReceiver gets the geofence transition type and tests whether it is one of the events the app uses to trigger. The service then sends a notification and logs the transition details.

IV. RESULTS AND DICUSSION

In this section the outcomes are listed that authenticate faithful working of the system.The figures shown below depict the results in the following manner.
In our proposed project there will be an admin who will have the data of the both customers and the sellers including the offer details which is displayed as shown below.

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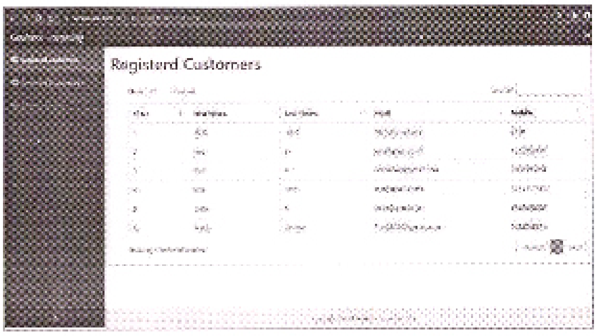


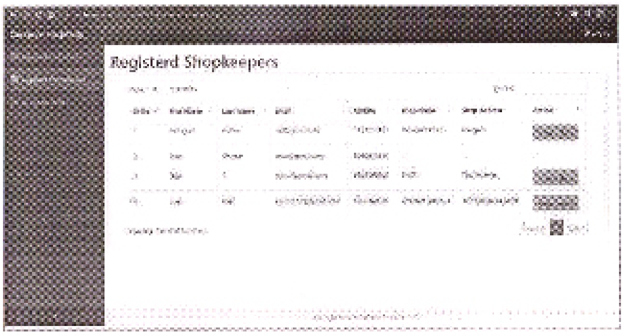


Fig.2.1 & 2.2 Showing the Details of Registerd customers and Registerd Shopkeepers

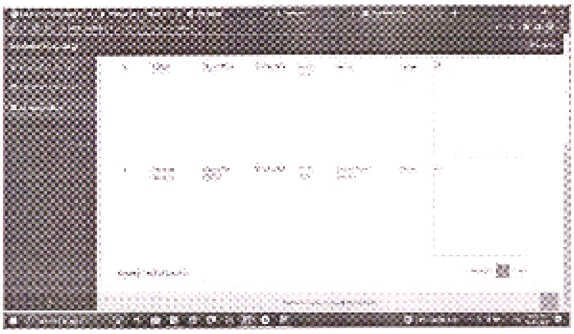
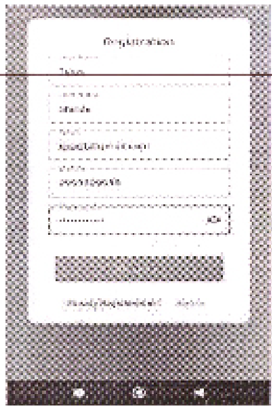


Fig 2.3 Showing the Details of offers which are offered by the shopkeepers

Basically, when the shopkeeper wants to use this app he/she has to register as show in the figure no.3.1 After registering the shopkeeper have to add the shop details in which he had given the option of the creating the geofence as well.



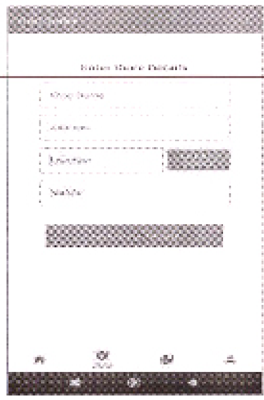


Fig.3.1

Fig 3.2

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As shown in the figure no 3.3 the shop keeper can create the geofence by long pressing on the location where the shop is located.After the geofence created the shopkeeper can add the offers as shown in the figure no 3.4 so that they will trigger to the customer when entered into geofence.

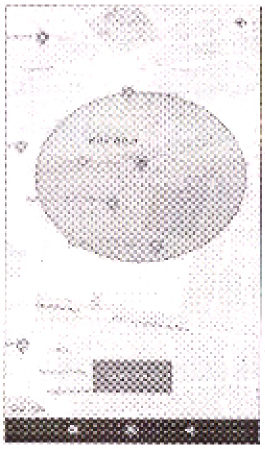

Fig.3.3

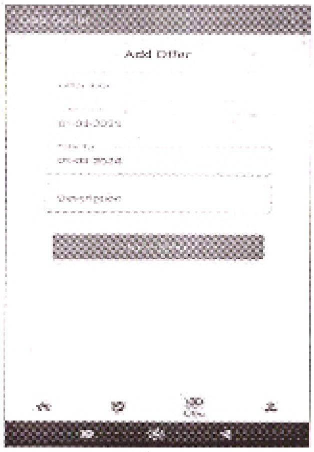

Fig 3.4

When coming to the customer,he/she also have to register & allow location permission to trigger the nearby shopkeeper notifications, the triggered notification are show in the figure no.4.1 and in the figure no 4.2 the offers are listed is shown.

Fig.4.1

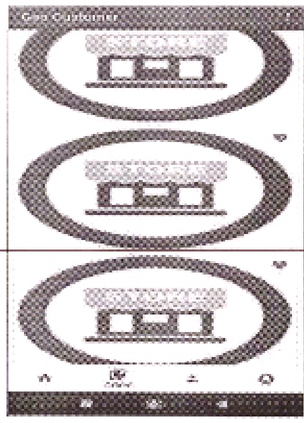

Fig 4.2

V. CONCLUSION

In this paper a new concept is proposed for the future marketplaces in order to distribute GFSs according to a genric service format that will allow the users to easily find and subscribe to services.
The proposed system acts as platform for small to medium business to extend their reach towards customers and overcomes the drawbacks of traditional marketing as well as existing system This system provides efficient way for business to market the products and services as advertises are delivered directly to the user's mobile phone and also the cost to set up infrastructure is much less as compared to other marketing strategies.

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The students admitted to the institute, are made aware of the importance of research in engineering education by the faculty. All the departments have formed department research committee which monitors the progress of students. The students are motivated to publish their research work in refereed research journals/ conferences. The students also are involved in research work and patent filing process.

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Roll.No.	Name Of the Student	Journal	Paper Title
1	GAWAS AASHWINI RAGHOBA	IJIRE	Hospitality Services Management System
2	KAMBLE SIYANG PRAFULLA		
3	MITHARE AKASH SURESH		
4	NARDEKAR SURAJ JAYKUMAR		
5	JAMADADE SHREYA ANIL	IJIRE	Gesture Recognition based Virtual Keyboard and Mouse
6	MANGLEKAR RUTUJA PRAKASH		
7	MOHITE SAMRUDDHI SURESH		
8	NIMBALKAR AISHWARYA PRAKASH		
9	HIREMATH ADITYA NANDIKESHWAR	National Conference NCETET-2023	Design an Android application to give information about harmful (for health) fertilizer contents
10	JARE PRASHANT LAXMAN		
11	KUMBHAR OMKAR BAJIRAO		
12	MOMIN MOHAMMAD RAASHID		
13	PATIL ROHIT LAXMAN		
14	KAMBLE ATISH VIJAY	IJSDR	Brain Tumor Detection & Segmentation using Mask R-CNN
15	KHARE SURAJ RAVINDRA		
16	MAHAMUNI SHREYAS SATISH		
17	MULLA HAIDARALI TAJUDDIN		
18	PAWAR ASHLESHA MADHUKAR	IRJEMETS	Design a software system for Vaishnavi Jewellers
19	POTDAR DIPALI GAJANAN		
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45	SHELAKE ASHWAGANDHA MOHAN	IJIRE	Driver Drowsiness Detection
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57	SHIRDHONE CHIDANAND EKNATH	IJIRE	Design an IOT Based Noise Detection and Alert System
58	PATIL SUSHANT VASABTRAO	IJIRE	Gas Leakage Detector using Arduino
59	DHAVALE POOJA YASHWANTRAO	IJIRE	Gas Leakage Detector using Arduino
60	JADHAV SNEHAL DATTATRAY	IJIRE	Gas Leakage Detector using Arduino
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Paper Publication by Students 2022-23

Sr.No.	Name Of Students	Title Of Paper	Publication Date	Academic Year
1 2	Akil Hanif Kacchi Tanjil Mujawar	Face Recognition based intelligent car anti-theft system using Raspberry Pi and GSM module	IRJMETS Volume 05,Issue04,April2023	2022-23
3 4	Nikita Sutar Pratik Patil	Ambulance Tarcking with Patient Health Monitoring System Using GPS and GSM Module	IJRPR Volume 4,Isuue 5,2023	2022-23
5 6	Namrata Shetti Snehal koshti	Design & Operation of Agriculture Based Pesticide Spraying & Grass Cutting Robot	IJRPR Volume 4,Isuue 5,2023	2022-23
7 8	Pradnya Khot Saniya Latif	IOT Based Smart Locker System	IJRPR Volume 4,Isuue 5,2023	2022-23
9 10	Saniya Nadaf Ranjeet Shinge	IOT Based Smart Helmet	IJRPR Volume 4,Isuue 5,2023	2022-23
11 12	Vinesh Kamble Dhanappa Chikkalaki	Fire Fighting Robot	NCETET-2023	2022-23
13 14 15 16	Komal Patil Rohit Patil Sanket Bhoi Sneha Kate	Traffic Control and Green [illegible] Unmanned Aerial Vehicles(Drones)	NCETET-2023	2022-23
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Advanced Bus Ticketing System

Prof. M. B. Bhilawade[1], *Gayatri Bharat Patil*[2], *Mohini Somnath Chavan*[3]

[1,2,3]Dep. of Electronics & Telecommunication, Dr. J J Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

The use of bus traveling is a large growing business in all countries: the manual use of bus reservation is presently very strenuous and a[illegible] consumes a lot of time by having to stay on a long queue. For

this reason, an efficient system is to be proposed in this paper to ease the issue of bus reservation amongst

indigenes within the country. The system is a web – based application that allows visitors to check bus

availability, buy and pay bus ticket online, checking our route where we travel. Accident detection and emergency service. Bus ticket booking during the offline era posed various difficulties to the customers as well as the bus operators

Offline ticket booking reduced the scope of customers to choose different options based on their travel criterion . Online ticketing could be extended to major entertainment and touristic sites and thus facilitate access to major points

of interest within cities, making online ticketing also interesting for travelers. In this paper, the proposed Advanced bus ticket system was developed using Hyper Text Markup Language (HTML),Cascading Style Sheet (CSS), JavaScript, Embedded C By using keil, Proteus for designing PCB.

Keywords: Bus Reservation, Queue, Efficient.

INTRODUCTION

A proper and systematic public transport plays a major role in economic development and well being of the people in any country. But public transport in most of the developing countries is not running properly because of the lack of systematic planning and monitoring. In this project, we are planning to monitoring operations of bus transportation systems. We propose use of minimal information i.e. record of arrival time of the buses at the bus-stops, for improvement of bus transportation system. Public Transport is one of the important infrastructures of any country. In developing countries like India bus transport consists of 90% of public transport.

However, lack of systematic mechanism to monitor and manage the bus-network is leading to lack of predictability of the bus network. It gets difficult to identify causes behind delays, or predict the arrival times. Bus transport system faces the ever increasing problem of traffic and congestion. The operations of bus-transport systems can be significantly improved by monitoring the [illegible] and analy[illegible] providing useful information both to the travelers and bus operating authorities. We propose the use [illegible]. The monitoring data thus collected provides information about arrival time of buses at bus-stops all over the deployment area.

LITERATURE SURVEY:

1] Empowering Bus Transportation System Using Wireless Sensor Networks

Indian Institute of Technology, Kanpur, India. Tata Research Development and [illegible]

[illegible]

However, lack of systematic mechanism to monitor and manage the bus-network is leading [illegible] the bus network. It gets difficult to identify causes behind delays, or predict the arrival times. Bus transport system faces [illegible] of traffic and congestion. [illegible]

[illegible] techniques for automated monitoring of [illegible]

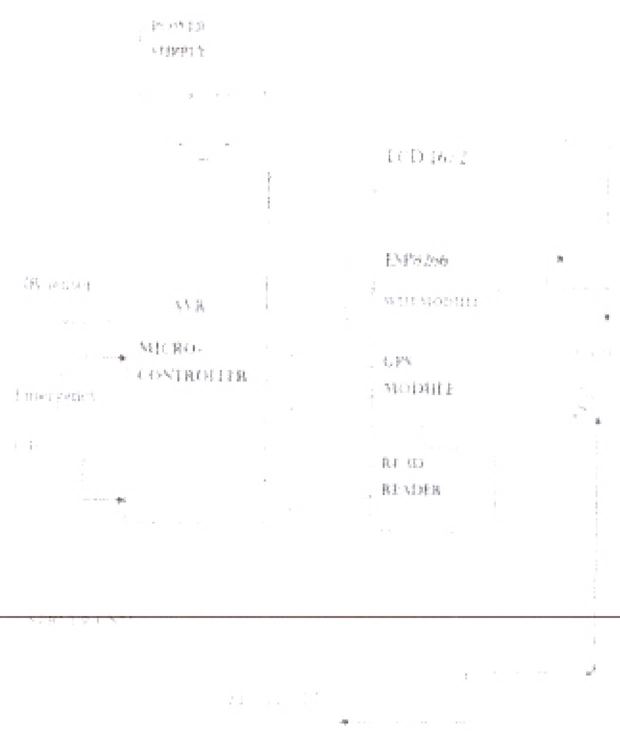
[illegible] frequency identifier and [illegible] and GSM infrastructure on each bus. This is costly in comparison with the RFID and WSN infrastructure. RFID technology works best in short range communication scenarios and is very sensitive to interference resulting into an infeasible solution for road conditions. In authors have enhanced reading range of RFID by incorporating WSN and propose use of WSN with traffic signaling system to get maximum clear way for buses. We propose to use wireless sensor network as a feasible technology option for its low cost and adequate location estimation.

2] Vehicle Data Acquisition And Telemetry

2014 Fifth International Conference on Signals and Image Processing 978-0-7695-5100-5/13 $31.00 © 2013 IEEE DOI 10.1109/ICSIP.2014.35 187, 2014 Fifth International Conference on Signal and Image Processing

Data Acquisition (DAQ) and Telemetry are part of the winning formula of any race team or vehicle manufacturer. It is vital to the development phase of a vehicle, so that designs can be validated and tunable parameters adjusted to increase performance and efficiency. Existing DAQ systems fail as they are of universal application type and turn out to be extremely costly and power hungry. Also, the lack of filtering stages is an issue for sensor data coming from a moving vehicle. The system discussed in this paper was designed specifically for automotive application, taking into account the size, cost and performance, while also taking care of the noise factor by including digital filters. The system was found to be 2.2 times more cost effective than current modules, with a data rate of 9600 Hz and 10 bit resolution for DAQ and the telemetry system working at a serial data baud rate of 9600 transmitted wirelessly through a ZigBee network.

BLOCK DIAGRAM:



System performance is also found to be satisfactory. This is a user-friendly application. Through this application, the cost can be reduced and efficiency is increased. There are several procedures that can be selected by customers.

FUTURE SCOPE:

- Display system at every bus stop.
- Making information available on mobiles.

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Cold Automation Storage

Prof. T. H. Mohite[1], Reena Babanrao Made[2], Shweta Suryakant Gaikwad[3]

[1,2,3,4]Dep. of Electronics & Telecommunication, Dr. J J Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

Cold chain is one of the important tools for farmers of perishable produce, pharmaceuticals to connect with markets and to realize meaningful productivity. A dearth of continuous electricity, absence of any warning systems, and labour power add to the troubles of cold storage owners. A smart IoT connected device which acts as data acquisition device and a controller serves the problem solution. Food spoilage and subsequent imports can be reduced by modernization of storage and warehousing facilities through industrial automation and remote control systems. But due to lack of technology and ignorance about humidity and temperature effect on raw foods, many times, food safety is not maintained well enough. In food industry, cold storage is a must, this kind of storage is to preserving the raw foods within for a certain period of time. For Food or Agro industries monitoring of the foods or materials which are rotten able are subject to constant monitoring if just a simple thing goes wrong then it can become a result of a big loss. A home grown solution to industrial automation that is cost, energy, and resource efficient with standard automation, control and communication features.

INTRODUCTION

Food is considered as one of the essential things for our lives. It is important to reduce food waste and increase the production-consumption ratio. Storage and warehouse are very important part of industry, as they are the source for providing raw material to major industries by storing in the preserving for long time. Continuous growth in the cold chain management has been reflected in the growth of globalization. Shortage of government owned cold storages and cold storages owned by mostly the upper-class people in towns, making it unavailable for the poor or low-class farmers. A storage facility should maintain the proper environmental conditions of the stored Product. For instance to store fruits, low temperature, in order to maintain quality, improve their shelf life and extend marketing period of fruits to control of environmental studies. Quality of fruits and vegetables has huge impact of surrounding during storage, we can only maintain the quality of fruits and vegetables therefore it is important to store it in proper ecosystem. For storage of food items in a cold storage various measurements are required to record the temperature, humidity and other factors in different parts large cold storage to make the automation work effectively. A proper storage mechanism should be incorporated to avoid the food wastage. Demand can irrespective of seasons which in turn avoids fluctuation in price of the product. For the optimization and for enhancement of working condition of cold storage, it is necessary to be automized. Due to automation it results in increase in product marketing and increase in profit of companies, for this purpose automation of cold storage is necessary.

LITERATURE SURVEY:

This [illegible] remote monitoring system of temperature, humidity, gas and light control for cold storage [illegible] subsequent imports can be reduced by modernization of storage and warehousing facilities through industrial automation and remote control systems. A home grown solution to industrial automation that is cost, energy, and resource efficient with standard automation, control and communication features has been developed and presented in this paper. Experimental results reveal the scalability, objectivity, accuracy, stability, economy and ease of deployment of developed system.

2. K. Zhang and J. Liu, Study on Human-simulated Intelligent Control Method of Fruit &Vegetable Cold Storage, 2009

Food spoilage and subsequent imports can be reduced by modernization of storage and [illegible] control systems. A home grown solution to industrial automation that is cost, energy, and resource efficient with standard automation, control and communication features has been developed and presented in this paper. Experimental results reveal the scalability, objectivity, accuracy, stability, [illegible]

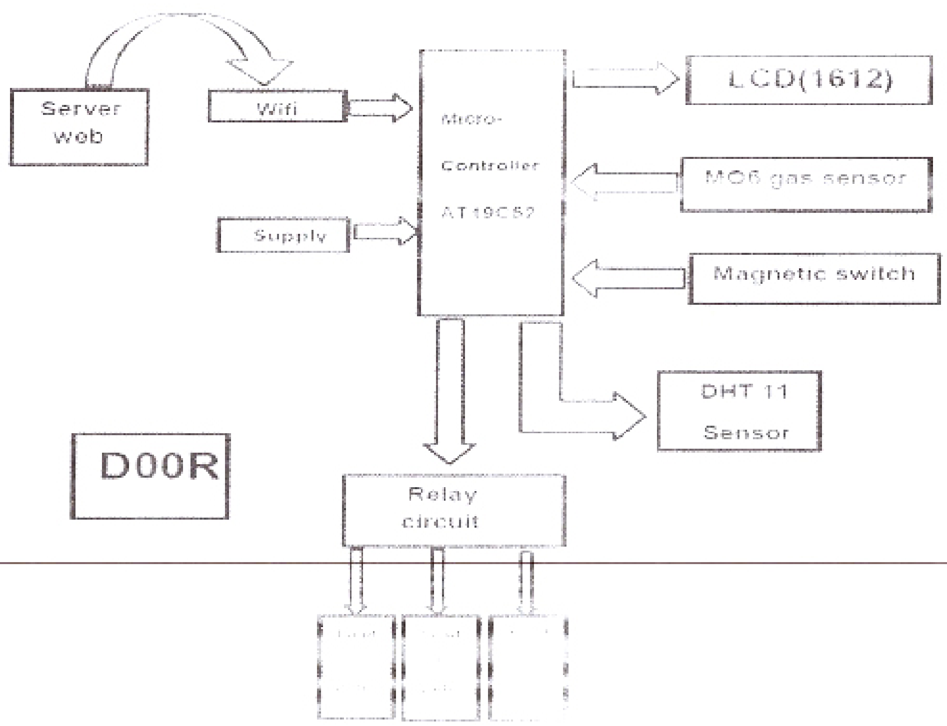
3. [illegible] Monitoring of Cold Chain using [illegible] the physical world objects to the internet and allowing easy access to these objects in order to monitor and control them. [illegible] wireless sensor networks play a major role in this paradigm in relating the physical object data to the internet. This paper explores the idea of IoT to enable the monitoring of cold

supply chain through the deployment of wireless sensor network in logistics and cold storage facilities and integrating them to the Xively sensor cloud for a complete monitoring and end-to-end visibility.

4. R. Freitas, F. Soares, V. Vieira, J. Machado," Monitoring and Control of a Cooling System in a Commercial Store," *The world congress on engineering*, vol. II, June 30-July 2 2010, London, UK. This paper presents a case-study for the optimization, the monitoring and the automatic control of a refrigeration system in a commercial store. The existing controllers were replaced by Omron temperature controllers, connected to an industrial network and linked to a central computer for data monitoring and temperature control using a Lab View software. In case of an alarm occurrence, this system includes a routine that automatically sends a GSM message to alert the person responsible for the store. This functionality is not yet available in commercial system.

5. Koo, P. S., & Ho, H. Y. (2016). An IoT-based Occupational Safety Management System in Cold Storage Facilities. In the contemporary strategy of cold chain logistics, cold storage plays an important role to keep the inventory under the extreme environmental conditions. As t e demand of cold storage services is growing rapidly nowadays, attention paid on occupational safety of warehouse workers is increasing under extre e working environment. Traditionally, the safety of workers are assessed by their experience and personal judgement. Without automatic data c pturing tools, it is hard to monitor the actual health status of workers who may be dangerous when working too long in the cold storage facilit s. In addition, there is a lack of prompt signal to managers and first-aid teams for instant treatment when the workers get cold injuries or illnesses. Ther fore, the real-time health monitoring and positioning of the workers are in need. Nowadays, internet of Things (IoT) is a mean of real-time interconnecti n system in which tan objects are equipped with the identifying and sensing technologies.

BLOCK DIAGRAM:



RESULT AND CONCLUSION:

[illegible] duration limited expenses and [illegible] positioning can be estimated.

[illegible]

FUTURE SCOPE:

1. By automation of cold storage there is increase in profit.

2. It creates Job Opportunites for skilled technicians.

3. Plays main role in developing of food sector.

4. It will be time saving for ripening of ban ns.

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[3] R. Freitas, F. Soares, V. Vieira, J. Ma hado," Monitoring an Control of a Cooling System in a Commercial Store," *The world congress on engineering*, vol. II, June 30-July 2 2010, Lo don, UK.

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Labour Work Monitoring System

Dr. S. R. Mahadik[1], Omkar Vaibhav Vaidya[2], Tejas Gurudatta Gurav[3]

[1,2,3]Dep. of Electronics & Telecommunication,
Dr.J.J Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

In past few years automation has reached to new revolution. Industrial relations is the term that describes how the management and the employees of a company interact with each other. We are going to implement this project in industries with the aim to monitor the work of labours. Designing a system which easy owner of industry (family) by sitting in front of a single monitor and [illegible] labour work monitoring system.

This system will record the [illegible] employees, but it also may help business financially. All the system is designed on basis of web server on microcontroller. This system is based on microcontroller and web server designing. In this project we are going to [illegible]. The production data will be upload on the Web Server through Wi-Fi module (IOT).

INTRODUCTION

Industry has become the second largest employment generating sector in the world. Data interpretation system is an Automated Information System which gives better control over production monitoring and takes corrective steps immediately. It provides better control over working process of labours. Continuous performance of every single worker in a mill gives a high productivity. With its increasing growth and demand textile industry faces many problems which have to be changed. One of the methods to solve those problems is the use of automation in the industries. Automation can be defined as the process of reducing human assistance in the process performed. In most sectors of manufacturing, automation is one of the major key to improvement and maintain working hours of labour. A process control or automation system is used to automatically control an industry. The Process Automation System uses a network to interconnect sensors, controllers, operator terminals and actuators. During the past 15 years the Internet revolution has redefined business to Consumer (B2C) industries such as media, retail and financial services. In the next 10 years, the Internet of Things revolution will dramatically alter manufacturing, energy, agriculture, transportation and other industrial sectors of the economy which, together, account for nearly two-thirds of the global gross Domestic product (GDP). It will also fundamentally transform how people will work through new interaction between humans and machines.

LITERATURE SURVEY:

[1] Prof. Niranjan M. Madhukar [illegible] **Engineering Belagavi, India)** Internet of Things (IoT) in industries has created a new revolution in industries. IoT in industries has given rise to the term "INDUSTRY 4.0" where systems are connected to each other using the internet [illegible] decisions [illegible] M2M [illegible] control and monitor the industrial application [illegible] over the application over the internet [illegible] 4.0, M2M communication

[2] D. L. Wu, Wing W. Y. Ng, D. S. Yeung and [illegible] on Machine [illegible] generation [illegible]

[3] [illegible]

and biometrics to accomplish the required task. When the RFID reader installed at the entrance of hostel detects a number, the system captures the user image and scans the database for a match. If both the card and captured image belong to a registered user, access is granted; otherwise the system turns on the alarm and makes an emergency call to the security van through GSM modem. In this way, the suspicious persons can be caught. Index Terms— Security and access control, RFID, face recognition.

[4] G. Ostojic, S. Stankovski, and M. Lazarevic, "Implementation of RFID technology in parking lot access control system," in *Proc. Annual RFID Eurasia Conference*, 2007, pp. 1-5. Currently, there are many parking lot management systems in use; however, most of them are unsuited to the problem of car theft. For exa ple, a thief can drive a jalopy into a parking lot, and because the gate does not have any mechanism to detect 2hether the driver is the owner of he car, the gate will be open according merely to whether the driver pays the parking fee. A thief can drive away with a luxurious car away sing his own parking ticket. We propose a new scheme to prevent the car theft. We adopt radio frequency identification technology confor ng to EPC global Class 1 Generation 2 to our scheme design. Our scheme supplies an easy, cheap and high security parking environment for c stomers and the parking management system.

[5]. Using Assembly and C By Janice Gillisp Mazidi, Muhammad Ali Mazidi, and Rolin D. Mckinlay. This textbook covers the hardware and software features of the 8051 in a syste atic manner. Using Assembly language programming in the first six chapters, in Provides readers with an in-depth understanding of the 8051 rchitecture. From Cha his book uses both Assembly and C to Show the 8051 interfacing with real-world devices such as LCDs, keyboards, ADCS, sensors, real-time-clocks and the DC and Stepper motors. The use of a large number of examples helps the reader to gain mastery of the topic rapidly and move on to the topic of embedded systems project design.

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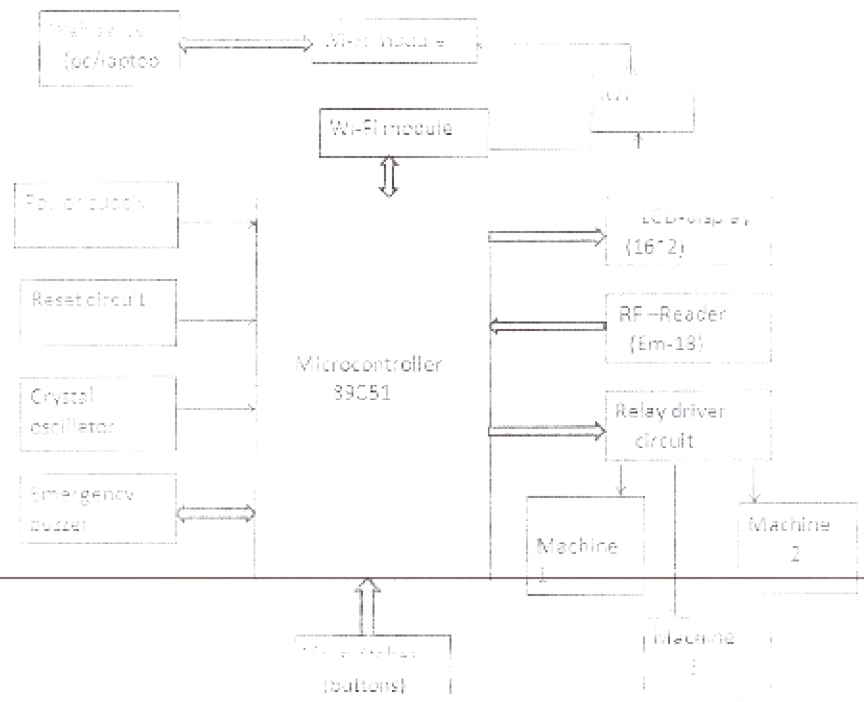

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TRAFFIC CONTROL AND GREEN CORRIDOR USING UNMANNED AERIAL VEHICLES (DRONES)

Komal Patil[1], Sneha Kate[2], Rohit Patil[3], Sanket Bhoi[4], Dr SB.Patil[5]

1.2.3.4. STUDENT

ELECTRONICSANDTELECOMMUNICATION,DR.J.J.MAGDUMCOLLEGEOFENGINEERING JASINGPUR,INDIA

5 STUDENT ELECTRONICS AND TELECOMMUNICATION, DR. J.J. MAGDUM COLLEGE OF ENGINEERING JASINGPUR, INDIA

ABSTRACT

Recently, Unmanned Aerial Vehicle (UAVs) has cached lots of instructed researchers developing them. They are numerous applications such as agriculture pesticide spraying drones, security drones, and surveillance dronesfor providingmedicinesto users, food packetdelivery drones, etc. In this paper, the design of the prototype drone is shown for traffic monitor control and the green corridordrone has a flight time capacity of 15 minutes guidance for an ambulance giving green corridor to it.The dronehas a wirelesspublicaddress system(PA)whichis controlled bytraffic.

KEYWORDS-DRONE,GREENCORRIDOR,PUBLICHEALTH,TRAFFIC CONTROL,UAV

I] INTRODUCTION

Approximately two to five percent of a counter's gross domestic is lost to traffic congestion. With increasingindustrialization, urbanization & population, there has been tremendous growth in traffic. With growingtraffic, these are rise in problems. Which include traffic jams faced by ambulances fire brigades & othervehicles. Emergency vehicle benefit is enormously influenced since of activity. Delays in coming to the clinic may lead to the misfortune of life of a persistent. These things require a Expedient. The Deane Rules (unused Rules) 202) characterizes plan as "an air ship that can work independently or can be worked remotely, without a pilot on board. Rambles are moreover known as unmanned flying machine frameworks. However, with technologicaladvancements, their use for civilian purposes & has evolved in recent years. Drones provide productivity &efficiency at low costs for a variety of activities. Most drones have a present day built-in Cameras, Speaker, [illegible] etc. The [illegible] developed since of their capacity to function in unsafe areas whereas keeping their human administrators at a secure remove. The bigger [illegible] as weapons. They have developed to [illegible] military. The address we posture [illegible]

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II] HEADLINE

Inthispaper,thedesignof the prototypedroneisshownfortrafficmonitorcontroland the green corridordronehas 15 minutesguidancefi ambulancesgivinggreen corridortoit. The dronehas a wirelesspublicadd[illegible]esssystem(PA)which iscontrolledbytraffic. Themainobjective[illegible]thisprojectistocreatea'greencorridor'fortheambulancesothattheambulance can reach the hospitalwithoutha[illegible]ngtofacemanyobstacles.

III] FIGURES ANDTABLES

For somebody modern to the multicolor side interest, putting together your to begin with quad copter parts list can be greatly overwhelming. Attempting to figure out what to purchase and what parts will work together is extreme, particularly for individuals who don't come from a foundation in radio-controlled planes or helicopters. Gatherings are pressed with individuals who need to construct a quad copter but don't know where to begin. It can be disappointing attempting to sort through the Thousands of posts on gatherings and blogs and figuring out what to do. We've listened from a part of peruses who are in comparable positions and this post is planned to spell out precisely what you wish for your to begin with quad copter construct. Whereas we'll suggest a total list of particular parts that we have utilized and tried for a total quad copter construct, the most reason of this post is to supply a common outline of the parts required to construct a quad copter. Here's what you'll require.

- Motorx4
- ElectronicSpeedControl(ESC)x4
- FlightControlBoard
- Radiotransmitterandcollector
- Propeller x4(2 clockwiseand2 counter-clockwise)
- Battery& Charger
- WirelessBluetooth
- Camera

IV] SPECIFICATIONS-

4.1] Frame

Fair as vital as great hardware, multi-rotors depend on the consider, lightweight bodies for mounting components. There are incalculable outline plans of changing shapes, measurements, and materials. Stiffer [illegible] that a outline is as well fragile, in spite of the fact that [illegible] incomparable crashes will result [illegible] [illegible] common materials [illegible] frames is carbon fiber. [illegible]

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and isoften. Just be aware that blocked signals are a possibility. Frames can also be built at home using aluminum orbalsasheet.Butresultswillvary from manufactured frames,both aestheticallyandin termsofflightattributes.

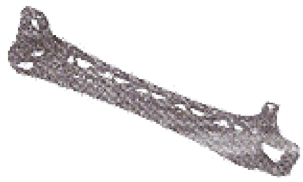

Figure4.1 F450 FrameArm

Arms moreover play a imperative part within the battle against vibrations, which can cause a number of distinctive issues. Flight controllers, with their sensitive barometers and spinners, don't by and large respond well to unremitting shaking. Shake them too much through a destitute setup and you may see sporadic behavior some of the time awful sufficient to cause crashes. Vibrations are too the fear of anybody trusting to utilize a camera on a multi-rotor. The wavy, headache-inducing twisting shaped as a result of dynamic checking.

4.2 MOTORS

The correct gadgets are a to begin with step toward making flight, but a multi-rotor isn't going anyplace without great old-fashioned commonsense material science to drag it upwards. Your choice of motors plays a essential part within the victory of a competent setup. Typically too the point when details begin to induce complicated. You'll need to do a few investigate some time recently settling on the proper arrangement for your quad. And engines are costly, making it indeed more imperative to consider the choices carefully.

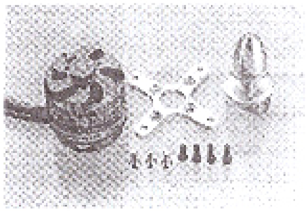

Figure4.2 BLDCmotor

Quad copter almost exclusively uses brushless DC motors (BLDC) [illegible] ratiossuperiortobrushed DCmotors. However,theyrequiremorecomplex speedcontrollers.

4.3 PROPELLERS

Moreover crucial are the propellers you select. The assortment of props is apparently more prominent than any other component we examine; materials, measurements, and cost span a mind-bogglingly wide run. By and large, cheaper props are less [illegible] made and more [illegible]

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FIGURE4.3 PROPELLERS

A more broad prop setup (with correspondingly-low KY engines) is less demanding to fly relentlessly, employments less current, and lifts more weight. To be perfectly honest, perfect way">the most perfect way to gage the correct run for engines and props is by alluding to producer suggestions in the event that you're building an ARTF pack. Otherwise you can essentially compare the setups of more experienced builders

4.4 ELECTRONICS SPEED CONTROLLER(ESC)

Electronic speed controllers (ESCs) are used in many R/C applications. They decipher signals to electrical supply. These speed controllers acknowledge commands within the frame of PWM signals and yield the fitting engine speed accordingly. Each ESC features a current rating, which demonstrated the most extreme current that it may give the engine without overheating. Fitting ESCs must be chosen to guarantee that they can give sufficient current for the engines. We chose 30A DYS ESC for our venture (Figure 4.4), as they are well-reviewed for utilize with quad copters and have an adequate current rating. Which indicated the maximum current that it may providethe motor without overheating. Appropriate ESCs must be chosen to ensure that they can provide enoughcurrent for the motors. We selected 30A DYS ESC for our project (Figure 4.4), as they are well-reviewed for usewith quad copters and have a sufficient current rating. The only other major factor to consider is an ESC'smaximum current rating, which must exceed the current draw to each motor. Generally, 30 A for medium/largequadsand10to12A fora small quadrangleisplenty.

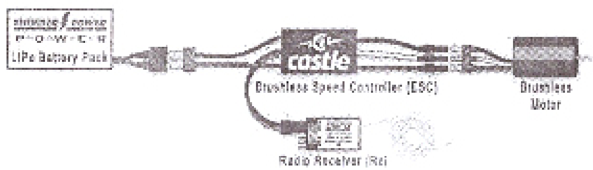

Figure4.4Electronic Speed Controller Schematic

4.5BATTERY

Multi-rotors draw a tall current and can effortlessly drag 40 A on a soak rising. As a result, strong batteries are a need for conventional flight times. The [illegible] is lithium-ion polymer (LIPO) batteries. Generally lightweight, compact, and advertising tall release rates, LIPO is well-suited for multi-rotors. LIPOs packs too have C appraisals that demonstrate the greatest rate at which a pack can be released, with C standing for capacity. A 20C pack can be released at a rate 20 times it is capacity. Capacity, in this manner, is the third critical calculate. It's measured in milliamp-hours (mAh). Let's say our 20C pack features a capacity of 4000 MAH. Given what we know [illegible] to do the math and decide its greatest release at [illegible] release rate that's higher than the combined draw [illegible]

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4.6 RADIOTRANSMITTERAND COLLECTOR

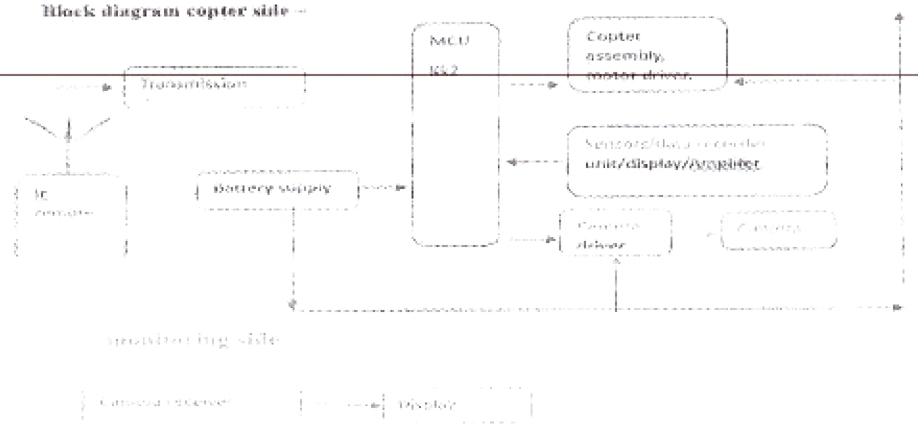
The radio system on an FPV (first-person view) multi-rotor is, of course, the control system. Again, both atransmitter and receiver are needed, and the choice of frequency is an important one. There are generally fewerfrequencies available for control systems. The foremost common is 2.4 GHz, in spite of the fact that 35 MHz and 72 MHz were prevalent within the past, too. UHF frameworks are getting to be progressively predominant Transmitters are accessible either as a single unit or, less commonly, as secluded pieces. After you purchase the transmitter shell, sticks, handles, and switches on their claim, without radio equipment, you at that point require a transmitter module to radiate your inputs. Devotees with numerous models communicating over distinctive frequencies regularly discover this approach valuable, since it's simple to swap out modules. The Turning 9XR is an illustration of a quality, reasonable secluded transmitter.

4.7 FLIGHTCONTROLLER

Multi-rotors are interesting within the world of R/C specialists. Ordinarily, when it comes to controlling a show vessel or plane, the pilot has supreme, exact control over the engine. A bump of the throttle deciphers to a relative increment in RPM. The same is genuine of input to the rudders, ailerons, folds, and other parts included in changing speed or heading. The distinction with multi-rotors, whether or not advantageous, is that no human is capable of controlling therotational speeds of three or more motors simultaneously with enough precision to balance a craft in the air.Thisiswhere flightcontrollerscome intoplay.

V] CONCLUSION

Block diagram copter side –



[illegible] ambulances to get green corridor implementation of public address system (PA) andobservingthetrafficthrough a

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Fire Fighting Robot

Mrs. Manisha Phutane[1], Vinesh Kamble[2], Dhanappa Chikkalaki[3]

1Assistant Professor Dept. of Electronics and Telecommunication,

Dr. J. J. Magdum College of Engineering, Jaysingpur, Maharashtra,India

2,3 Student Dept. of Electronics and Telecommunication,

Dr. J. J. Magdum College of Engineering, Jaysingpur , Maharashtra, India

ABSTRACT

With the development in the field of robotics, human intrusion has become less and robots are being widely used for safety purpose. In our day to day lives, fire accidents have become common and sometimes may lead to hazards that make it hard for the firemen to protect human life. In such cases, a firefighting robot is used to guard human lives, wealth and surroundings from the fire accidents. Here we implement two modes of robotic operations- Manual mode & Automatic mode.In the Manual mode, PHP webpage is used to control the robotic vehicle. In Automatic mode, the robot takes controls by itself based on the user predefined command. To detect fire we use OpenCV for image processing. Standard colors of fire are defined by upper and lower boundaries of HSV color spaces of red, orange and yellow. The water spraying mechanism is completely automatic in both the modes. In the PHP webpage we have a control to switch between manual and automatic modes based on our choice.

INTRODUCTION

As robotic Technologies have improved and has been an integral part of our lives lots of people have made attempts to find an alternate for human work and efforts with new improvement in technology of embedded design particularly when people risk the lives during fire hazards. This allows robots to act to their full potential and understand complex and difficult scenarios aftermath of a disaster however it would be effective if the robots fight against fire hazards rather than responding after the occurrence of the hazard. The need for production systems in cities and major towns has been mandatory and this robot has [illegible] difficult environment of such topographical areas. The basic idea is to implement fire sensors positioned [illegible] estimation of the range of fire radiation. There are smoke detectors and gas detectors which are [illegible] and easy solution for fire detection. What recent developments [illegible] [illegible] obstacles and moves according to the detected obstacle [illegible]

[illegible]

1.The proposed model is able to detect presence of fire using [illegible]

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ultrasonic sensor and moves the robot to fire accident location. It contains gear motors and motor driver to control the movement of robot. When it detects fire it communicates with microcontroller (Arduino MEGA) and the robot will move towards the fire affected area. [1]

2.Robot is a machine that seems as though a person and performs different complex assig ments. There are numerous kinds of robot. Here a FIRE Quenching ROBOT is proposed. This robot is furnis ed with a solitary fire sensor used to detect ecological fire and feed the signs to the microcontroller so as to rigger the siphon which sprinkles water so as to stifle the fire. [2]

3. This robot uses dc motor, Arduino microcontroller, sensor, pump and sprinkler, it uses smoke sensor for detection and fire extinguisher to extinguish the detected fire.Therefore this arduino based robot is designed to control the fire through a robotic vehicle. the robot rotates while fire is detected. this detection is performed by the sensors which is placed on the sides. [3]

4. The project that is being presented is focused on a firefighting robot. Robots are capable of performing tasks in a more efficient, cost-effective [illegible] popularity as technology has advanced, making human work simpler.?

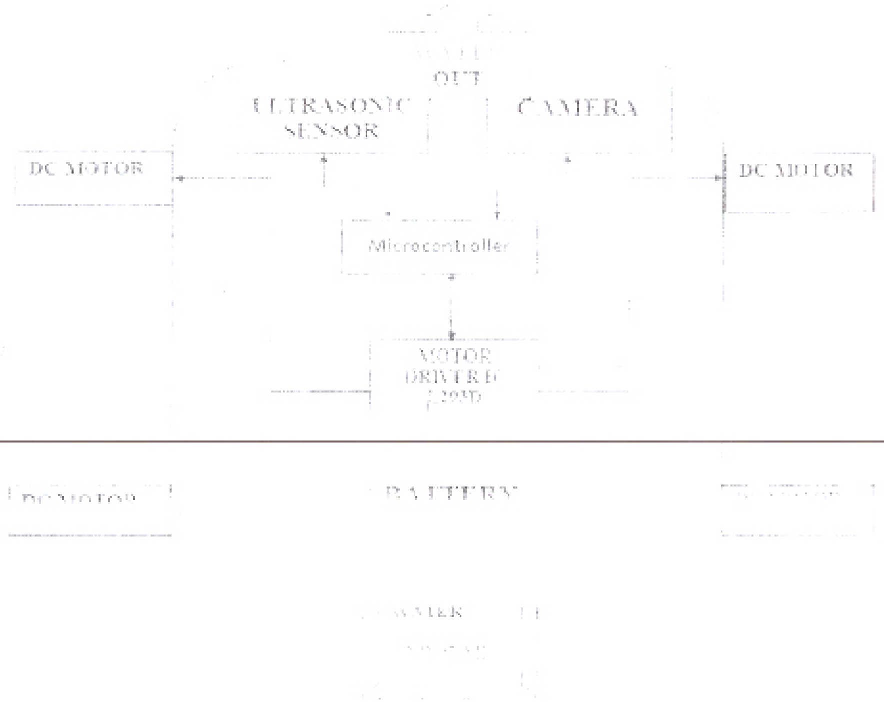

Fig. Block diagram

[illegible]

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detection and another for running motors. There is also a separate program for ultrasonic sensing which is called from the main GPIO program. The command for running a python script in Microcontroller terminal is once the python program is run and the camera or ultrasonic sensor detects anything, the corresponding arguments are displayed in the ter minal. The arguments we have used are

- "FIRE detected" in case any colour constituent is detected
- "Obstacle detecte i" if any obstacle detected by Ultrasonic sensor
- "MANUAL MO E" for manual mode operation
- AUTO MODE" for auto mode operat

RESULT AND CONCLUSION

The automated fire-fighting robot is capable of detecting fire and extinguishing the fire source successfully. The raspberry pi controls the DC motor and ultrasonic sensor for movement of robot. It can detect fire under normal and dark lighting conditions and better suited for extinguishing fire inside a building. The Fire Fighting Robot is fabricated with locally available materials and some tests are done to observe its effectiveness at different situations. As the Fire Fighter Robot has to endure different situation, this effectiveness test will help us to make a better model. The Fire Fighting Robot is effective enough to fight against fire on a small scale. It can sense fire flame better at darker places. It is made as a preventer robot. Because it can detect fire instantly and can extinguish it before spreading. This multisensory based robot may be a solution to all fire hazards. With enough funding and scope, this design of robot can also fight against large fire with larger reserving capacity and an improved sensing unit can provide even an earlier detection of fire at all circumstances

FUTURE SCOPE

IOT can be implemented onto the robot to control it from another location in manual mode. More sensors can be mounted to achieve a better performance and we can also reduce the reaction time detecting the fire source. With the addition of a 360° camera we can achieve a great field of view. The storage can be replaced with a water pipeline for extinguishing larger fire source. Colour detection of fire is not very reliable. Hence a thermal camera can be installed rather than the USB camera to achieve better detection of fire source based on intensity

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[4] [illegible] S.P Rithanya, S.P [illegible] Vigneshkumar 2021

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Project Name - IoT based Smart Helmet
Grp No - 5

International Journal of Research Publication and Reviews, Vol 4, no 5, pp 2676-2678, May 2023

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

IOT based Smart Helmet

Saniya Haroon Nadaf, Ranjeet Balaso S[illegible]inge, Prof. M. M. Kolap.

Dep of Electronics & Telecommunication
Dr.J. J. Magdum College of Engineering, Jaysingpur, Mahar[illegible]htra, India

ABSTRACT

India, known for its large youth population, has a high incidence of bike accidents due to a lack of helmet usage. Many young people are more interested in following fashion trends than protecting themselves from head injuries. Unfortunately, this has resulted in an increase in bike accident fatalities. Drunk driving is also a significant contributing factor to bike accidents, with many accidents occurring due to negligence. To address these issues, a smart helmet utilizing the internet of things has been developed. This helmet has several features, including only allowing the bike to start if the rider is wearing a helmet, shutting off the ignition if the rider is over the legal alcohol limit, and sending an alert to a registered contact in the event of an accident. Additionally, a speed lock feature prevents the rider from exceeding 60km/hr, with an audible warning triggered if they do. This system is composed of two modules, one on the helmet and one on the bike. The helmet module includes an alcohol sensor and a helmet switch, while the bike module includes a vibration sensor, GPS, and GSM. These two modules communicate wirelessly using an RF transmitter and receiver with an encoder and decoder, all controlled by an 8051 microcontroller.

INTRODUCTION

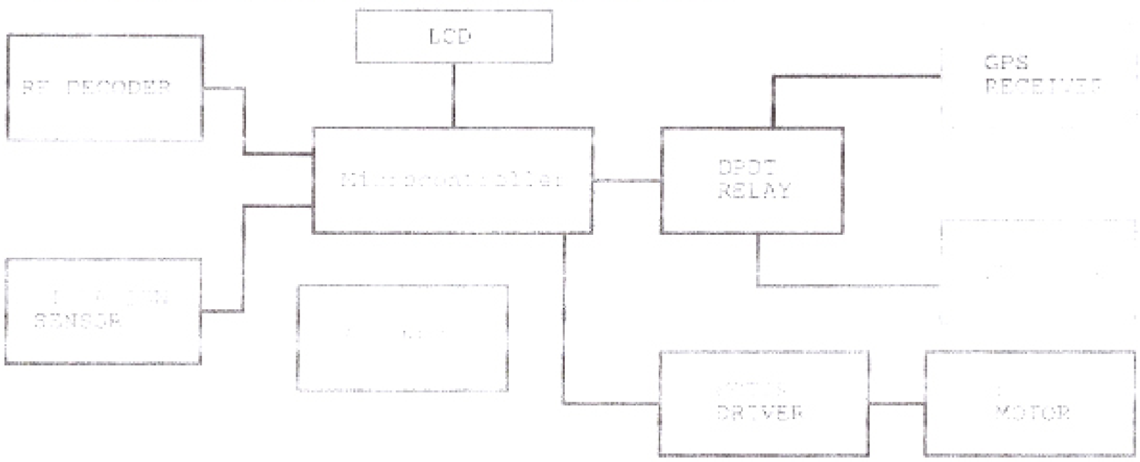
We have created a new design for a SMART HELMET FOR BIKE RIDER'S SAFETY, which is described in detail below. The claimed portion of the design of the SMART HELMET FOR BIKE RIDER'S SAFETY includes advanced features such as alcohol detection, accident identification, location tracking, hands-free device usage, and fall detection, all of which are designed to enhance rider safety. This smart helmet also functions as a feature of a smart bike, with a compulsory requirement to wear it. If the rider fails to wear the helmet, the ignition switch will turn on and an alarm will start beeping to alert the rider, while a message will be sent to the RTO. An RF Module is used as a wireless link for communication between the transmitter and receiver. If the rider is drunk, the ignition gets automatically locked and a message with the location is sent through the GSM module with the help of GPS. The distinctive utility of this project is fall detection; if the rider falls off the bike, a message is sent to alert others. Finally, a speed lock is set at 60km/hr, and if the rider exceeds that speed, a buzzer will start beeping to warn them.

LITERATURE SURVEY:

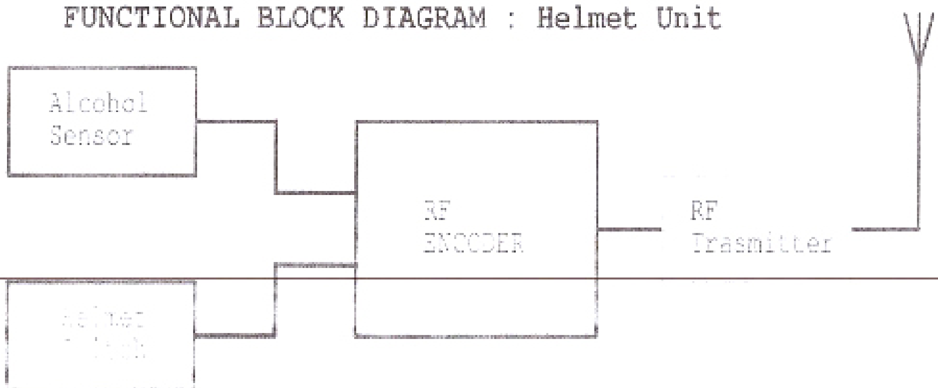
Mohammed [illegible] Arduino NANO and Arduino Mega 2560 are microcontrollers which [illegible] components of the [illegible] communication between [illegible] MQ-3 alcohol sensor is used which can detect whether the bike rider is consumed alcohol or not. If the bike rider is alcoholic, then the MQ3 sensor detects it and turn off engine. A Smart IR sensor detects the head of the rider within the specified range. The Bike rider's engine will start only when the rider will buckle the helmet. GPS & GSM [illegible] sending text message to the family members of the Bike rider when an accident occurs. Darvesh H. Patelhas et.al [2] proposed an approach which the System is plan and implemented such a way that the bike will not ignite until the rider wear helmet and pass the alcohol test. this will help to solve the problem of drunk and drive. It consists of GSM GPS technology which sends the message to the family member as well as hospital with the current location at the time of an accident.

BLOCK DIAGRAM:

FUNCTIONAL BLOCK DIAGRAM : Vehicle Unit



FUNCTIONAL BLOCK DIAGRAM : Helmet Unit



RESULT AND CONCLUSION:

With accidents happening even during the night when there is no one around to help, the rate of fatalities has increased significantly. The implementation of smart helmets in the future could potentially reduce accidents and provide immediate prevention measures by sending messages to nearby hospitals and using GPS to locate the rider's position. These helmets could be used by people of all economic backgrounds due to [illegible]

FUTURE SCOPE:

[illegible] investigation [illegible] damage to the camera it can retract into the helmet when not in use. [illegible]

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2.Pranav Pathak "IoT based Smart Helmet with Motorbike Unit for Enhanced Safety " ISBN:978-1-7281-83381, DOI:10.1109/ICACCCN51052.2020.9362986

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IOT Based Smart Locker System

Dr. S. R. Mahadik, Saniya Shakil Latif, Pradnya Arun Kho

Dep. of Electronics & Telecommunication

Dr. J. J. Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT [illegible] need of the hour. The traditional lock and key [illegible] personal items safe [illegible] solutions to this problem. Gone are the days of the troublesome key and lock. Radio Frequency Identification [illegible] of-Things (IoT) is a secure, user-friendly and efficient method to safeguard things. This combination comes with advantages such as high security, simplicity, cost-effectiveness and "misplace-proof" methodology. This paper proposes a Smart RFID-IoT based Locker system. The locker works on RFID authentication technology, which is unique to every identity card of the user. It is also enabled with Wi-Fi connectivity to facilitare continual status monitoring, user login/logoff, [illegible] and unauthorized access surveillance.

INTRODUCTION: The main purpose of this paper is to design and implement a system based on a Password and a Radio- Frequency Identification RFID. This system is basically a password and an RFID based access-control system which permits only an authentic person to unlock. For doing this, the system will activate and authenticate the user. We have applied a security system via a passive type of RFID and a PASSWORD based on Atmega16 microcontroller. The RFID reader reads the ID number form RFID tag. Then enter the password from a Keypad, if the ID number of the tag and the password are correct, then the will unlock. The aim of constructing this system is to put in place a formidable locker security system with low cost and free of errors.

Looking up after valuables is a common practice to protect them from thieves. Now days, atomization has reached in various fields. . Atomization in banks has not yet been enrolled up to a desired level. Though bank plays an important role in a common man's life. Thus we will be developing the system which will improve the level of atomization in banks.

Here is a sophisticated [illegible] code lock using micro controller 89c52 This code [illegible]

[illegible] with the permanently stored code

International Journal of Research Publication and Reviews Vol ( ) Issue ( ) (2021) Page 000

5. Two separate relays are provided: Relay A is provided for opening the lock and relay B is used for closing the lock.

LITE ATURE SURVEY:

1]

IOT ASED SMART LOCKER SECURITY SYSTEM

This project will focused on effective recognizing and controlling system for Bank locker room which is fully self determining. In cases of robberies, as commonly happen that the banned entrance in the locker room area which can be detected by our security system. If the robbery take place the banks are not be capable recognize the robber due to absence of the proof by using the current human operated security system. The system will designed in effective way by recognizing and controlling illegal person to access the locker for the safety of bank locker room.

In this, we proposed a three phase conformation of procedure for smart locker, by providing User Name and Password, using Fingerprints and OTP which check out the user. As compare to any other previous approaches our system uses the verification process which generates an OTP to registered mobile number which highlights the smart security.

2]

FINGERPRINT BASED BANK LOCKER SYSTEM USING MICROCONTROLLER

The main aim of the paper is to design and implement the Fingerprint based bank locker system using microcontroller. Biometrics studies commonly include fingerprint, face, iris, voice, signature, and hand geometry recognition and verification. Many other modalities are in various stages of development and assessment. Among these available biometric traits finger Print proves to be one of the best traits providing good [illegible] ratio and [illegible]. The present scenario to operate a bank locker is with locks which are having keys. This does not provide good security to our lockers. To provide perfect security to the bank lockers and to make the work easier, this project is taking help of [illegible]

[illegible] with bank at any time. [illegible] the ATM (Automotive Teller Machines) are installed everywhere in the localities. As the number of ATMs increased, prevention of theft and security of customer is the prime objective. At present, security systems are not highly secured as they are only provided with alarm system. This project deals with design and implementation of ATM security system using vibration sensor and GSM Modem. The prime objective of this project is, to secure the ATM system

using vibration sensor and GSM modem. In this project, when a thief enters and tried to harm the machine, the vibration sensor which is attached to the machine get vibrated and sends the signal to the ARDUINO microcontroller. Once the controller receives signal, it locks the door of ATM room by sending signal to the dc motor and sprinkler sprinkles the chloroform to make the thief

unconscious. The buzzer will also be getting activated at the same time to alert the nearby people of ATM system. Simultaneously, the controller will send a message to an authorized person of the bank through GSM odem and The door is made to open only after entering the password by

the bank staff. The project is implemented and worked successfully

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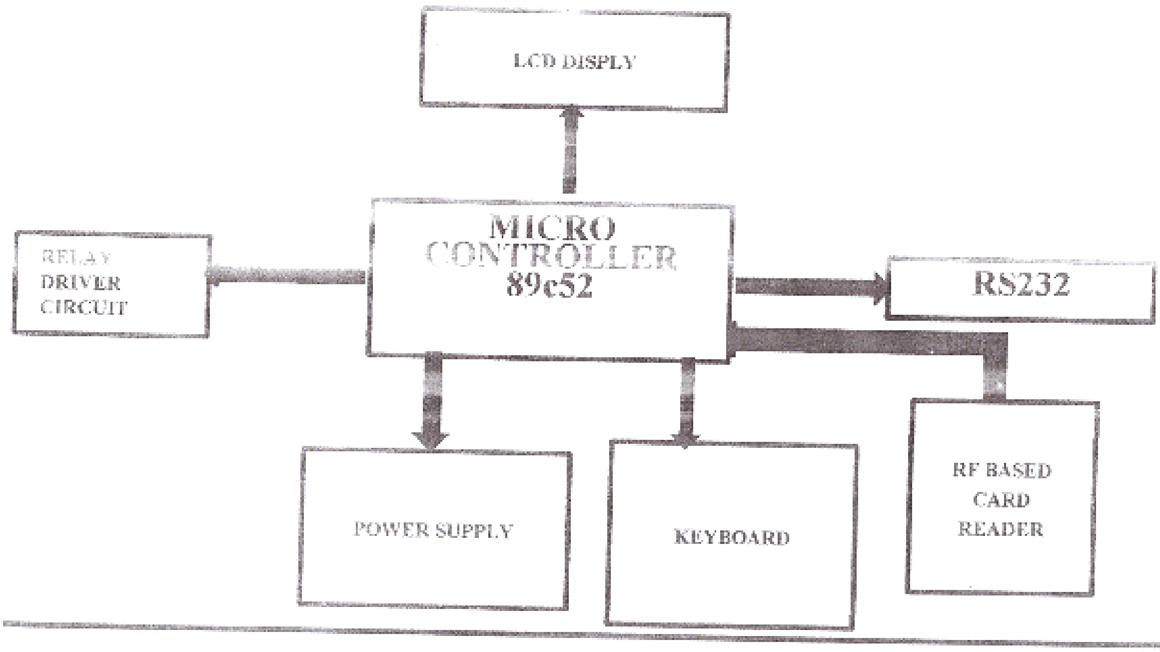
BLOCK DIAGRAM: Functional Block Diagram:



RESULT AND CONCLUSION:

In this paper, a smart RFID based compact locking system. RFID enabled 'Read-Authenticate' algorithm was used for user verification. [illegible] provides impressive security in a user-friendly manner requiring minimum human intervention. The proposed system was also able to track and monitor the locker activity over definite intervals of time. It used Wi-Fi connectivity to communicate with a centralized server, where the locker records were stored in a database allowing continuous tracking and surveillance. This initiative opens up many [illegible] intelligence techniques like Computer Vision or Speech Recognition, to make deposition and registration even more smooth, secure, and smarter.

FUTURE SCOPE: You can accomplish a variety of accounting tasks with their assistance. Electronic locks, in addition to unlocking and locking doors, can also be used to keep track of working hours. When an employee uses an RFID tag to unlock a door, the system receives a door open signal and records the time the employee arrived and departed the company.

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Group No - 3 ... Glass Cutting Robot

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Design & Operation of Agriculture Based Pesticide Spraying & Grass Cutting Robot

Prof. M. M. Kolap[1], Namrata Sunil Shetti[2], Snehal Prabhakar Koshti[3]

[1,2,3]Dep. of Electronics & Telecommunication, Dr. J. J. Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

Spraying pesticides manually outdoors can be challenging due to factors like an open environment and unfavorable weather conditions. To minimize the risks associated with manual spraying and reduce labor intensity, a [illegible] pesticide spraying robot specifically [illegible]. The robot [illegible] controller and can be controlled using an Android [illegible]. The app features remote buttons that allow [illegible] and the robot's controller is interfaced with a Wi-Fi module for communication between the app and the robot. While the productivity of the prototype may not be optimal, the robot is designed to meet the requirements of pesticide spraying and grass cutting in a greenhouse environment, without the need for human operators. The benefits of using a robotic system in this context include consistent output, quality, and repeatability.

INTRODUCTION

Since the 1990s, China has made significant progress in popularizing plastic greenhouses and advanced [illegible] of economic and social benefits. Presently, China has emerged as the world's leading producer of greenhouse crops. However, there are still gaps in greenhouse production management and automation compared to more developed countries. Farmers in China often work under primitive conditions, enduring high temperatures, humidity, and poor ventilation for extended periods. In contrast, developed countries like Japan have achieved a high level of automation in greenhouse management and are advancing towards fully automated, unmanned systems known as "plant factories." These facilities utilize robots and robotic arms for cultivation, liberating them from the constraints of natural conditions. Therefore, it is crucial for China to improve the automation level of greenhouse production equipment and develop agricultural techniques to meet the demands of the new era. The rapid advancements in smartphone technology, including enhanced processors, larger storage capacities, entertainment features, and various communication methods, have made them powerful devices. The introduction of Wi-Fi technology has revolutionized the way people use digital devices, eliminating the need for traditional wired connections. The concept of using a smartphone as the central control unit for robots has gained attention and offers numerous opportunities and possibilities. In this paper, we provide an overview of current mobile-controlled robots. Our work focuses on controlling the robot's movements, such as upward, backward, left, and right, through an Android application.

LITERATURE SURVEY:

1) Joaquin Gutierrez and et all, Automated Irrigation System Using a Wireless Sensor Network and GPRS Module, IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, VOL [illegible]

The papers publish by Joaquin Gutierrez and et all represents the design of automated irrigation system which was developed for [illegible] of water resources. It consists of distributed wireless sensor [illegible] transmitted to the server & can be monitored via internet

2) Sammons P J, Furukawa T, Bulgin A. Autonomous Pesticide Spraying Robot for use in A Greenhouse[A], Australian Conference on Robotics and Automation, Sydney Australian 2008.

[illegible]

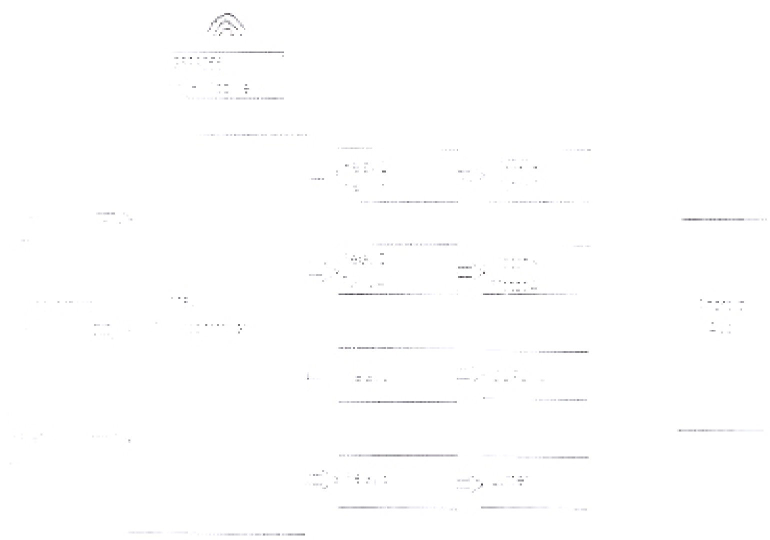
[illegible] glasshouse. This is achieved by the [illegible]

3) [illegible]

Developed agriculture needs to find new ways to improve efficiency. One approach is to utilise available information technologies in the form of more intelligent machines to reduce and target energy inputs in more effective ways than in the past. Precision Farming has shown benefits of this approach but we can now move towards a new generation of equipment. The advent of autonomous system architectures gives us the opportunity to develop a complete new range of agricultural equipment based on small smart machines that can do the right thing, in the right place, at the right time in the right way.

Compared to spraying pesticides manually outdoors,the environment has a high temperature,humidity for operating the spray work in green-house or in farms.In order to protect labourer and reduce labour intensity,we have develope a prototype of pesticide spraying robot specially used in the greenhouse and farms.ROBOT is controlled with a ARM7 controller.Desig ing of latest inverted ROBOT which will be controlled using an REMOTE We are developing the remote buttons and commands in the hardware by which we can control robot motion using RF communication to interface controller and remote

BLOCK DIAGRAM:



(1)

RESULT AND CONCLUSION:

The utilization of battery operated agriculture robots in the field of agriculture brings about numerous advantages. It enables a significant reduction in [illegible] for various tasks. Compared to traditional working methods, these machines demand fewer farmers and less [illegible] with these limitations and benefits in mind, incorporating a dual functionality [illegible] integrated approach [illegible] the needs of Indian agriculture [illegible] challenges prevalent in today's farming practices in India.

FUTURE SCOPE:

As mentioned earlier, [illegible]

2] Sammons P.J., Furukawa T., Bulgin A. Autonomous Pesticide Spraying Robot for Use in A Greenhouse[A]. Australian Conference on Robotics and Automation , Sydney Australian 2008.

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Ambulance Tracking with Patient Health Monitoring System Using GPS and GSM Module

Prof. T. H. Mohite[1], Nikita Bharat Sutar[2], Pratik Dushyant Patil[3]

[1,2,3]Dep. of Electronics & Telecommunication, Dr.J J Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

With the assistance of this project, we can determine the precise location of an ambulance while simultaneously monitoring essential health parameters of a patient. These parameters encompass temperature, humidity, and heartbeat rate. A text message containing the location and sensor readings is transmitted to a doctor's mobile device or any authorized individual within the hospital. This recipient can then promptly inform the doctor about the ambulance's location and the patient's health status. By utilizing these parameters, the doctor can make the necessary preparations for the patient's treatment and determine the ambulance's whereabouts.

INTRODUCTION

This project encompasses three primary functionalities. The first one involves monitoring the health of the patient, while the second focuses on tracking the ambulance transporting the patient. The third function revolves around transmitting the aforementioned details to the hospital or doctor using GSM technology. Through this project, it becomes possible to determine the ambulance's location and simultaneously monitor various health parameters of the patient, including temperature, humidity, and heart rate. A text message containing the location and sensor readings is sent to the doctor's mobile device, or alternatively, it can be forwarded to any authorized personnel within the hospital. This individual can then promptly notify the doctor regarding the ambulance's location and the patient's health condition, allowing the doctor to make the necessary preparations for treatment. The ambulance follows a designated route separate from other primary vehicles to reach its destination. Sensors integrated into the ambulance system continuously monitor the patient's health, and if the readings exceed the normal values, the GSM module transmits the tracked data to another GSM unit. Consequently, the hospital unit becomes aware of the patient's condition even before the ambulance arrives. An advantage of this project is its operation on a 5V DC power supply, which is readily available. Another recommended method for ambulance tracking is the utilization of Google Maps, which offers an efficient and convenient means of monitoring vehicle location online. Hospital personnel can employ these online maps to track the ambulance, leveraging the internet to determine the ambulance's location based on longitude and latitude coordinates. In today's internet-driven world, access to the internet is widespread and rapid. Numerous websites provide online maps, with Google Maps being one of the most renowned. By having a computer or laptop and an internet connection, hospital staff can receive an SMS on their mobile device and manually input the relevant parameters into Google Maps. Upon clicking the View button, Google Maps will display a marker pinpointing the precise location of the ambulance.

LITERATURE SURVEY:

1. Ahmet Ar[illegible] and Sema F. Oktu[illegible], Nesnelerin Interneti [illegible] "Internet of Things Security: Denial of Service Attacks".

Ahmet Aris and Sema F. Oktu[illegible], Nesnelerin Interneti G[illegible]venligi: Servis Engelleme Saldi[illegible] Internet of Things Security: Denial of Service Attacks "Internet of Things (IoT) is a network of sensors, actuators, mobile and wearable devices, simply things that have processing and communication [illegible] and can connect to the Internet. In a few years' time, billions of such things will start serving in many fields within the concept of IoT. Self-configuration, [illegible]

and classify the DoS attacks that may target the IoT environments. [illegible] will be evaluated.

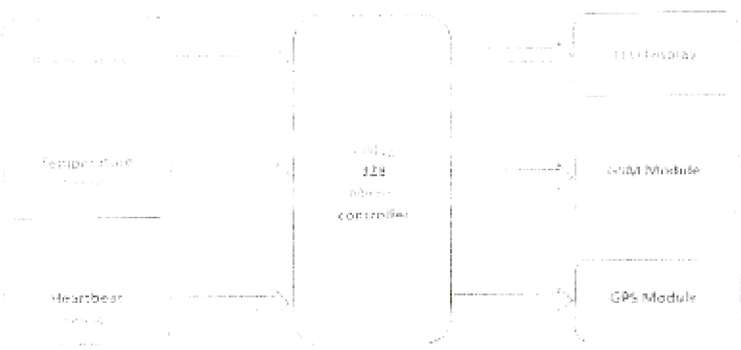
2. Mohammad A. Al-Khedher, Hybrid [illegible] Information Technology (IJCSIT) [illegible]

Mohammad A. Al-Khedher, Hybrid GPS-GSM Localization of Automobile Tracking System, International Journal of Computer Science & Information Technology (IJCSIT) [illegible] module has a GPS mounted on the moving vehicle to identify its current position, and to be transferred by GSM with other parameters acquired by the automobile's data port as an SMS to a recipient station. The received GPS coordinates are filtered using a Kalman filter to enhance the accuracy of measured position. After data processing, Google Earth application is used to view the current location and status of each vehicle. This goal of this system is to manage car, police automobiles distribution and car theft cautions.

3. Smart Real-Time Healthcare Monitoring and Tracking System using GSM/GPS Technologies". The Master of IEEE Projects 2016.

Smart Real-Time Healthcare Monitoring and Tracking System using GSM GPS Technologies". The Master of IEEE Projects 2016Health monitoring systems have rapidly evolved recently, and smart systems have been proposed to monitor patient current health conditions, in our proposed and implemented system, we focus on monitoring the patient's blood pressure, and his body temperature. Based on last decade statistics of medical records, death rates due to hypertensive heart disease, shows that the blood pressure is a crucial risk factor for atherosclerosis and ischemic heart diseases; thus, preventive measures should be taken against high blood pressure which provide the ability to track, trace and save patient's life at appropriate time is an essential need for mankind. The objective of this work is providing an effective application for Real Time Health Monitoring and Tracking. The system will track, trace, monitor patients and facilitate taking care of their health; so efficient medical services could be provided at appropriate time.

BLOCK DIAGRAM:



(1)

RESULT AND CONCLUSION:

This paper introduces the Internet of Things (IoT) as the foundation for this project, which utilizes micro-controller technology alongside GSM and GPS systems to transmit data through text messages. This innovative approach in the medical field enables doctors to closely monitor patients' health even while they are being transported in an ambulance. Crucial physiological parameters such as body temperature and heartbeat can be continuously monitored, allowing doctors to analyze the patient's condition from any location within the hospital. This not only alleviates the workload on doctors but also provides accurate results. This paper introduces the Internet of Things (IoT) as the foundation for this project, which utilizes micro-controller technology alongside GSM and GPS systems to transmit data through text messages. This innovative approach in the medical field enables doctors to closely monitor patients' health even while they are being transported in an ambulance. Crucial physiological parameters such as body temperature and heartbeat can be continuously monitored, allowing doctors to analyze the patient's condition from any location within the hospital. This not only alleviates the workload on doctors but also provides accurate results.

automatically initiate an emergency call if the patient's health parameters exceed a predetermined threshold or if the patient deviates from a

2. The project holds potential for tracking industrial vehicles transporting equipment or materials such as fuel tanks, fuel containers, or gas

[2] Mohammad A. Al-Khedher, Hybrid GPS-GSM "Localization of Automobile Tracking System", International Journal of Computer Science & Information Technology (IJCSIT) Vol 3, No 6, Dec 201

[3] Smart Real-Time Healthcare Monitoring and Tracking System using GSM GPS Technologies", The Master of IEEE Projects 2015