BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Mangalpally (Village), Ibrahimpatnam (Mandal), Ranga Reddy (District), Telangana-501510

1.3.3 : Percentage of students undertaking project work/ field work / internship (Data for the latest completed academic year) (10)

Academic Year 2018-19

S. No.	Department	Descriptions	Total Count
1.	B.Tech-CIVIL	Major Project Work	74
2.	B.Tech-EEE	Major Project Work	116
3.	B.Tech-MECHANICAL	Major Project Work	72
4.	B.Tech-ECE	Major Project Work	161
5.	B.Tech-CSE	Major Project Work	222
6.	B.Tech-IT	Major Project Work	43
7.	MBA	Major Project Work	10
8.	M.TECH	Major Project Work	19
9.	B.Tech-(CIVIL, EEE, MECHANICAL, ECE, CSE) MBA	Internship	134
10.	B.Tech-(EEE, MECHANICAL,ECE, CSE, 1ST YEAR STUDENTS) MBA,	Industrial visit	693
TOTAL COUNT			1544

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
Mangalpally(V), Ibrahimpatnam, R R District E1

PRINCIPAL

Principal
Bharat Institute of Engg. and Tech
Mangalpally(V), Ibrahimpatnam(M)
Ranga Reddy (Dist)-Telangana-501510

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Computer Science and Engineering
MAJOR PROJECT(2018-2019)
IV-II IT

Batch No.	Roll No.	Student Name	TITLE OF THE PROJECT	Name of Supervisor
1	15E11A1228	PERUMALLA YASHASWINI	IOT BASED MILITARY ASSITANCE SURVELLIANCE	Dr.P.Velmurugan Associate Professor
	15E11A1237	VADLA GAYATHRI		
	15E11A1213	JALLEPALLY SRAVANTHI		
	15E11A1245	TEJASWINI		
2	15E11A1227	PADAMATINTI MAHARSHI	PREDICTION MODEL OF STUDENT CAREER DEVELOPMENT	Dr.Neeraj Sharma Associate Professor
	15E11A1238	VASARA ANIL		
	15E11A1242	AKSHAY KULKARNI		
	15E11A1202	BOGADHI RAKESH REDDY		
	15E11A1209	CH.BHANUPRAKASH GOUD		
3	15E11A1236	V GOUTHAMI	PATTERN-OF -LIFE MODELING IN SMART PHONES.	Dr.R.Madanamohana Associate Professor
	15E11A1234	SAMPATH RASHMIKA		
	15E11A1230	PORE ARCHANA		
	15E11A1243	G SAHITHI		
4	15E11A1215	KARNATI VENKAT SANTHOSH	IOT BASED SMART COLLEGE	Mrs.Y.Sirisha Assistant Professor
	15E11A1225	NAKKALA SRINIVAS GOUD		
	15E11A1229	POLA VIVEK		
	15E11A1235	S.SAI VAIBHAV		
	15E11A1226	N.YUVARAJ		
5	15E11A1216	KEDIKA ANUSREE REDDY	URL PHISHING ANALYSIS	Mrs. D.L.N. Prasunna Assistant Professor
	15E11A1206	CHADA SAI MYTHRI		
	15E11A1203	B ALEKHYA		
	15E11A1204	B.NAVYA		
6	15E11A1232	P.SAI SUPREETH	INTELLIGENT SOLDIER HEALTH SECURITY COMMUNICATION	Dr Pradhya Professor
	15E11A1208	CHINTAKINDI ABHINAY KUMAR		
	15E11A1201	BELURE ANAND		
	15E11A1210	GANGIDI SAITEJA		
	15E11A1241	Y SHIVA SAI ABHISHEK GUPTA		
7	15E11A1231	GOURU SONICA	SECURE AND EFFICIENT PRIVACY PRESERVING PROVABLE DATA POSSESSION IN CLOUD STORAGE	Mrs. V. Saritha Assistant Professor
	15E11A1207	CHALLA KALYANI		
	15E11A1240	VONTEDDU SAMATHA		
	14E11A1214	ADITHI DESHPANDE		
8	15E11A1221	MAKADIA AKSHAY PATEL	IOT BASED ROAD SIMULATOR AND SAFETY	Mrs. Aarti S B Assistant Professor
	15E11A1222	MOKALLA MALLI KARJUN REDDY		
	15E11A1239	VEGYARAPU ADITHYA		
	15E11A1220	M NAGARJUNA		
9	15E11A1219	LOKA RUSHITHA	IOT BASED SMART FIRE EXTINGUISHER	Dr.J.R.V.Jeny Associate Professor
	15E11A1212	J KAVYA		
	15E11A1217	K PRIYANKA		
	15E11A1224	NADIGATLA SUCHARITHA		
10	15E11A1233	REVANTHULA VINAY KUMAR	SENTIMENT ANALYSIS OF TWITTER	Mr V.Satyanarayana Associate Professor
	15E11A1223	MUTHYAPU VINEETH KUMAR		
	15E11A1205	B.RAJU		
	15E11A1214	JANGAM SAI KIRAN		

IoT BASED MILITARY ASSISTANCE AND SURVEILLANCE

A Project Report Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements
for the award of the degree of

BACHELOR OF TECHNOLOGY
IN
INFORMATION TECHNOLOGY

By

P.YASHASWINI	**15E11A1228**
V.GAYATHRI	**15E11A1237**
J.SRAVANTHI	**15E11A1213**
B.TEJASWI	**15E11A1245**

Under the guidance of

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Associate Professor

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BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated to JNTUH Hyderabad, Approved by AICTE & Accredited by NAAC)
Ibrahimpatnam - 501 510, Hyderabad

2018-2019

DEPARTMENT OF INFORMATION TECHNOLOGY

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU Hyderabad, Approved by AICTE & Accredited by NAAC)

Ibrahimpatnam - 501 510, Hyderabad

Certificate

*This is to certify that the project work entitled "***IoT BASED MILITARY ASSISTANCE AND SURVEILLANCE***" is the bonafide work done*

By

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J.SRAVANTHI	**15E11A1213**
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Head of the Department:

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Viva-Voce held on.....

Internal Examiner

External Examiner

ABSTRACT

At present the surveillance of International border areas is a difficult task. The border guarding forces are patrolling the border seriously, but it is not possible to watch the border at each and every moment. An essential requirement of this situation is a robot which automatically detects trespasser in the border and report nearby board security control unit. Many of the military departments now utilize the robots to carry out risky jobs that cannot be done by the soldiers. The purpose of this project is to design and construct automatic intruders or intruder vehicles detection at the borders and destroy them . This system continuously tracks the certain area using ultrasonic distance measuring sensors, whenever any intruder(enemy) vehicle or persons try to enter the area this robot automatically tracks and destroy them immediately and these information alert message sent to border control unit along with exact distance.

This system is designed to detect the target (missile) moving in multiple directions. The target destroying system moves automatically in the direction of missile and fires it upon fixing the target and send the alert message to the control unit automatically.

This system consists of an intelligent sonar based object tracking system that continuously monitors the target. Upon detecting the target it sends the target's location to a Central Control System. The Central Control System takes the action of moving the firing mechanism in the direction of target (missile). Upon fixing the direction, it sends the control command to firing system for attacking the target.

In this project we are making use of ultrasonic radar system and a DC geared motor driven firing unit interfaced with a Microcontroller based control unit. We prefer ultrasonic sensor, because the Ultrasonic sensors covers larger sensing distance and it can detect the target in all the lighting conditions (day or night). The programming of Microcontroller is done using Embedded 'C'.

This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review) and standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, PO6,PO7,PO8 PO9 PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.

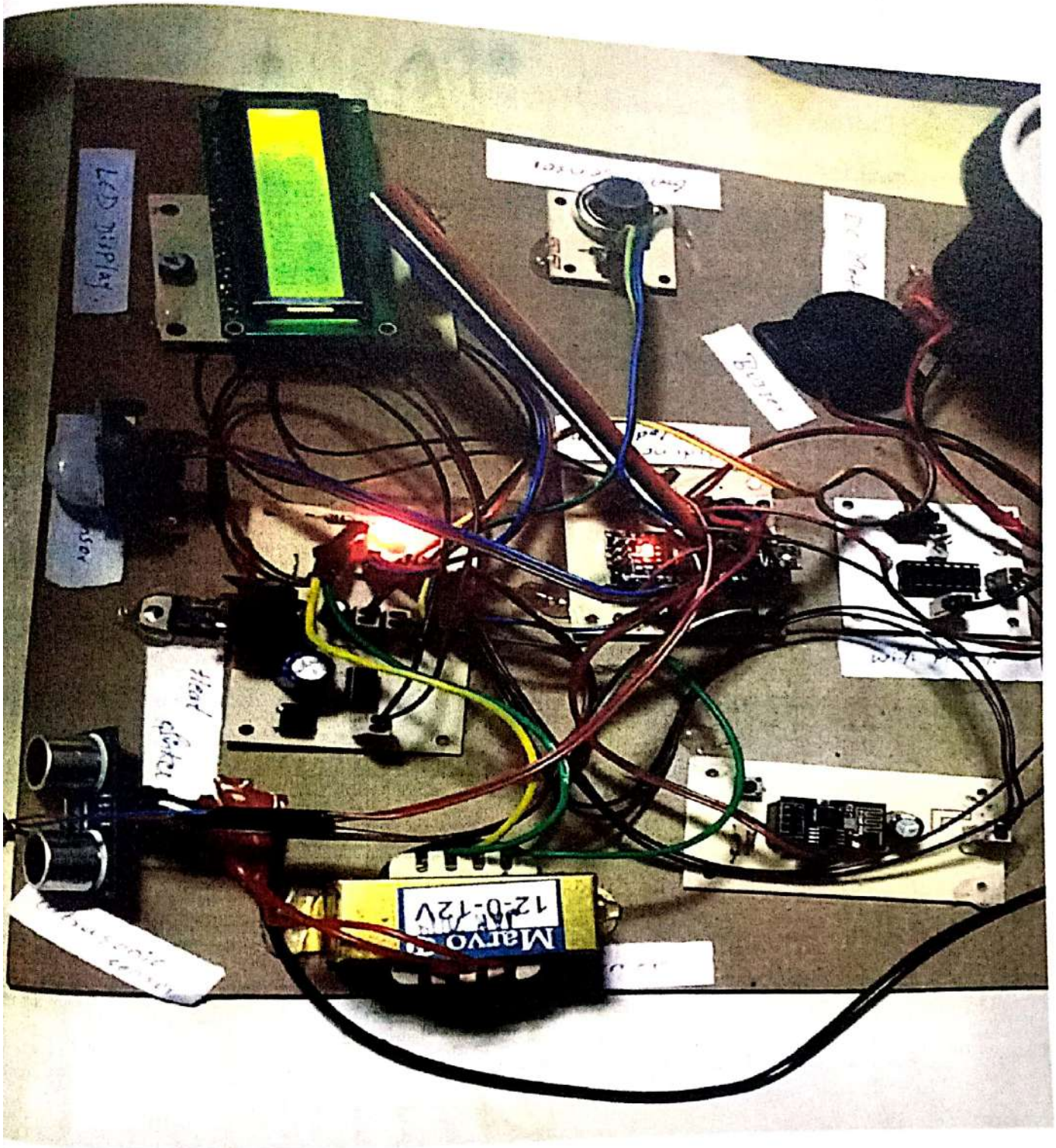

Fig 7.2.3:- Screenshot of the result

Prediction Model of Student Career Development

A Project Report Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements
for the award of the degree of

BACHELOR OF TECHNOLOGY
IN
INFORMATION TECHNOLOGY

By

P.Maharshi	**(15E11A1227)**
Vasara Anil	**(15E11A1238)**
Akshay Kulkarni	**(15E11A1242)**
Ch.Bhanuprakash Goud	**(15E11A1209)**
B.Rakesh Reddy	**(15E11A1202)**

Under the guidance of

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Associate Professor

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By

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External Examiner

ABSTRACT

Computer supported collaborative applications on overlay networks are gaining popularity among users who are geographically dispersed. Examples of these kinds of applications include video-conferencing, distributed database replication, and online games. This type of application requires a multicasting sub network, using which messages should arrive at the destinations within a specified delay bound. These applications also require that destinations receive the message from the source at approximately the same time. The problem of finding a multicasting sub network with delay and delay-variation bound has been found to be an NP Complete problem. Here we provide an efficient heuristic to obtain a multicast sub network on an overlay network, given a source and a set of destinations that is within a specified maximum delay and a specified maximum variation in the delays from a source to the destinations.

This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, **PO6, PO7, PO8**, PO9, PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.

Classification and prediction of students' performance in examination are the typical challenges for educators. Various traditional data mining methods such as decision tree and association rules were used to perform classification. In recent years, the rapid development of artificial intelligence and deep learning algorithm provided another approach for intelligent classification and result prediction. In this paper, a research on how to use TensorFlow artificial intelligence engine for classifying students' performance and forecasting their future universities degree program is studied. An appropriate and accurate forecast is important for providing prompt advice to student on program and university selection. For a more comprehensive consideration of an all rounded factors, the deep learning model analyzed not only the traditional academic performance including Mathematic, Chinese, English, Physics, Chemistry, Biology and History, but also non-academic performance such as service, Conduct, Sport and Art. A few parameters in TensorFlow engine including the number of

Class Diagram

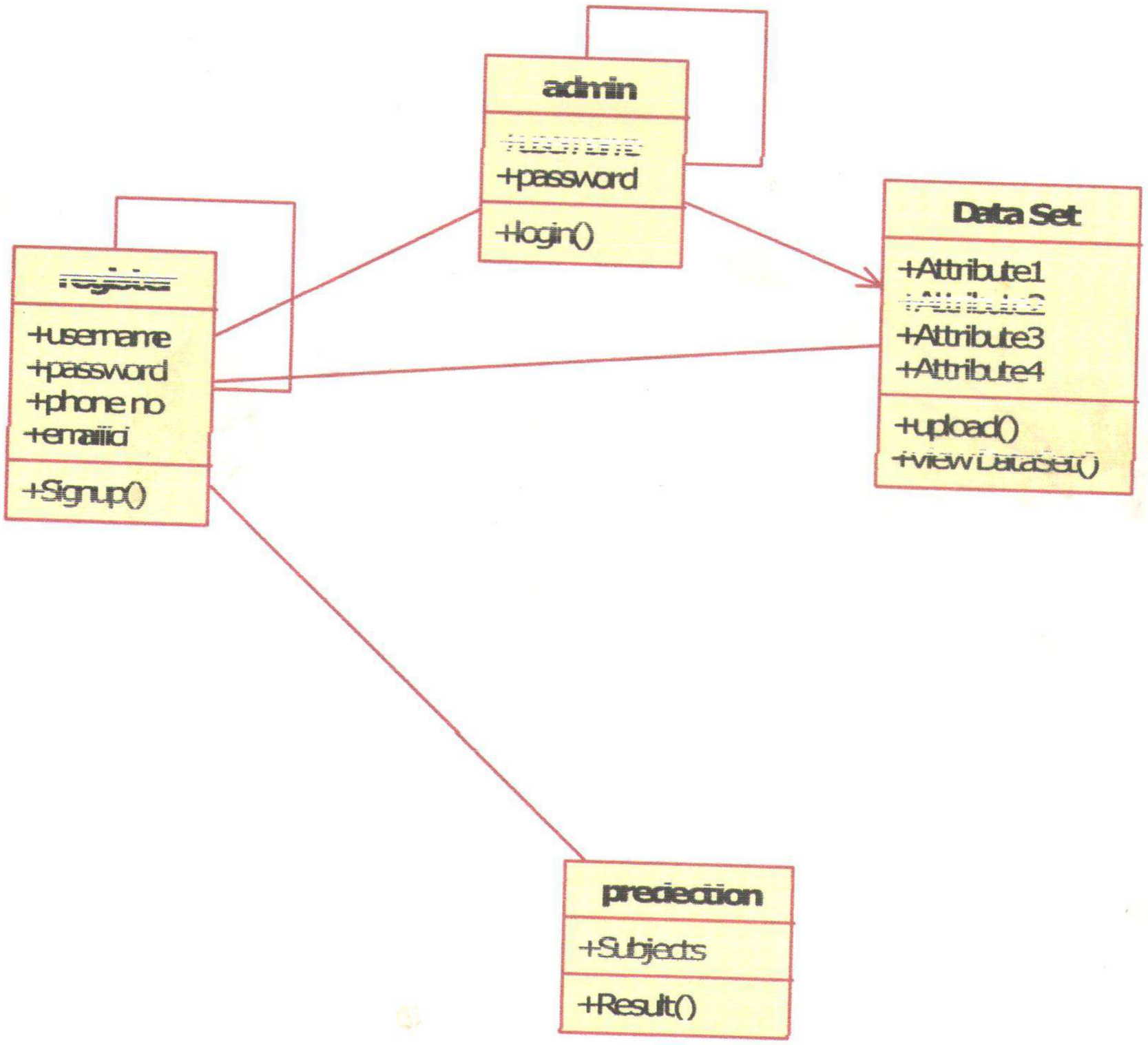

Fig 6.3.2 Class Diagram

PATTERN-OF-LIFE MODELING IN SMART HOMES

A Project Report Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements
for the award of the degree of

BACHELOR OF TECHNOLOGY
IN
INFORMATION TECHNOLOGY

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S.RASHMIKA	**15E11A1234**
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Certificate

*This is to certify that the project work entitled "**Pattern-of-life Modeling in Smart Homes**" is the bonafide work done*

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G.SAHITHI	**15E11A1243**

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Viva-Voce held on 1/5/19

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Internal Examiner

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ABSTRACT

Smart home devices are relatively inexpensive, readily available, and easily integrated into homes. However, retailers provide smart home devices with little scrutiny in regards to device security or known vulnerabilities. This research presents a smart home architecture designed with commercially-available devices used to investigate Internet of things (IoT) data leakage in the wild. Additionally, a pattern-of-life analysis tool was developed to exhibit how an eavesdropper can use traffic from a smart home to classify devices, identify events, track users, and gain physical access to a home. The tool was evaluated through five-days of experimentation in which 17 of 18 devices were classified, 95% of 343 events were identified, and users were tracked with near 100% accuracy. This information, combined with a discovered Bluetooth Low Energy lock vulnerability, were used to gain unfettered access to the home while the user was away. Furthermore, a mitigation technique was created to introduce spoofed wireless traffic sent on behalf of devices within the home to hinder an eavesdropper's ability to classify devices, identify events, and track users. During an additional five-day experiment, security devices were concealed, 221 false events were introduced per day, and the user appeared always home. Finally, this research provides security recommendations to manufacturers and users to help defend against vulnerabilities and create a safer smart home environment.

This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (Web Application.) and standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, PO6,PO7,PO8, PO9, PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.

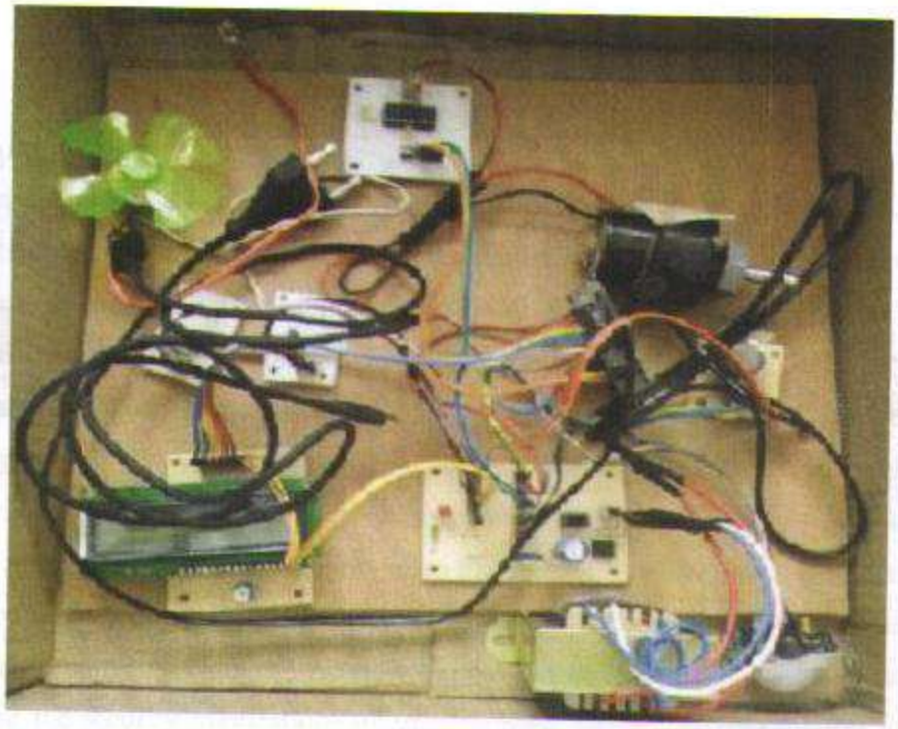

Fig 7.2 Screenshot of Kit

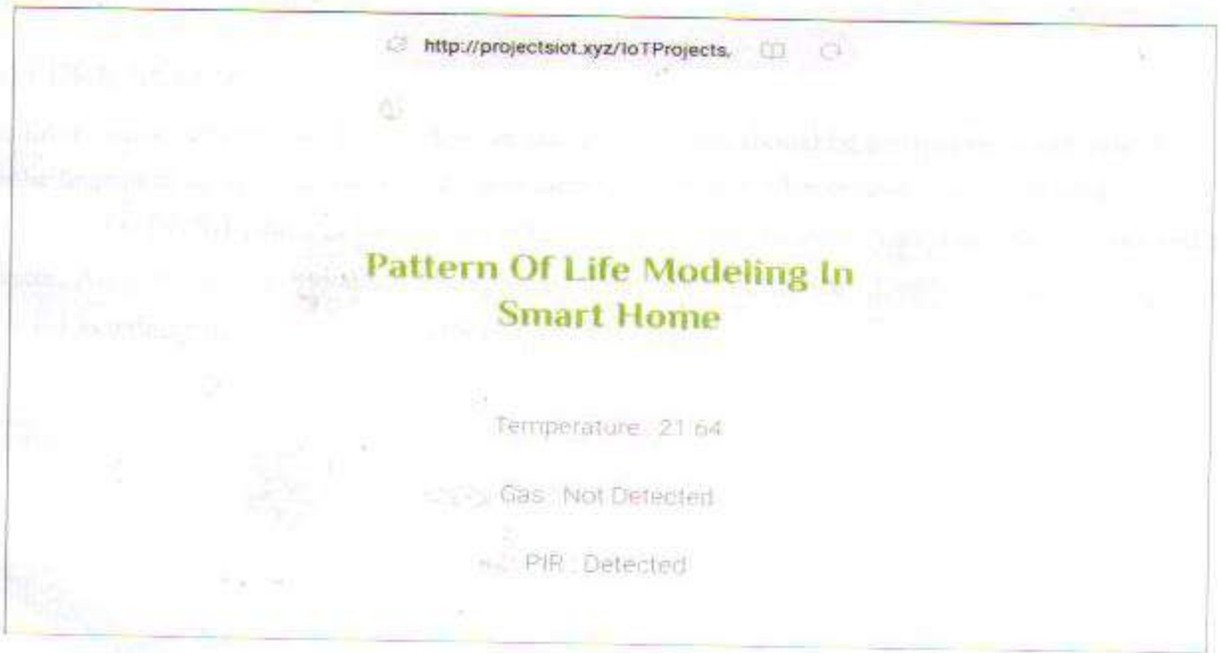

Fig 7.3: Screenshot of HomePage

IOT BASED SMART COLLEGE

A Project Report Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements
for the award of the degree of

BACHELOR OF TECHNOLOGY
IN
INFORMATION TECHNOLOGY

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N.SRINIVAS GOUD	**15E11A1225**
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Viva-Voce held on 1/5/19

Internal Examiner

External Examiner

ABSTRACT

New technology like (IOT) in recent years rapidly developing in a computing world. The Internet of things will change the real world, activities and objects from simple to most complex. Beside areas as Business, Cities, Transportation, Health care, Agriculture and different areas, The IOT will also have a major implication in institute/college. In digital eraour College campus need of IOT technology for classy environment to utilize secured &modern technology for e-campuses activities in academic course of action. In general,campuses spread over a fairly large area and it's very difficult to control for management to track everything happens.This project focuses on need of adopting IOT technology in campususing Secured for (e-Educational)-Campus academics. In near future drastically make changes for students in highly enabled IOT. Starting from needs and advantages ending with

Embedded systems do a very specific task, they cannot be programmed to do different things. . Embedded systems have very limited resources, particularly the memory. Generally,they do not have secondary storage devices such as the CDROM or the floppy disk.Embedded systems have to work against some deadlines. A specific job has to be completed within a specific time. In some embedded systems, called real-time systems, the deadlines a restringent. Missing a deadline may cause a catastrophe-loss of life or damage to property.Embedded systems are constrained for power. As many embedded systems operate through a battery, the power consumption has to be very low.

possible architecture based on smart objects.This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review) and standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, PO6,PO7,PO8 PO9 PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.

For details on creating packages for third-party hardware, see the Arduino IDE 1.5 3rd party Hardware specification.

5.9. SERIAL MONITOR

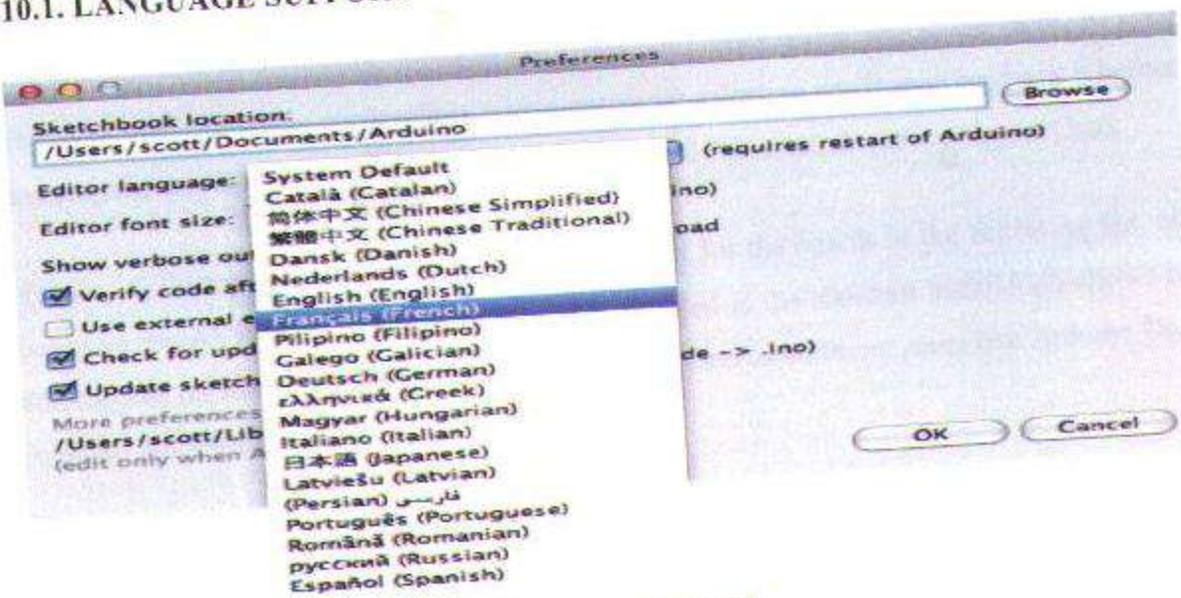
Displays serial data being sent from the Arduino or Genuino board (USB or serial board). To send data to the board, enter text and click on the "send" button or press enter. Choose the baud rate from the drop-down that matches the rate passed to Serial.begin in your sketch. Note that on Windows, Mac or Linux, the Arduino or Genuino board will reset (rerun your sketch execution to the beginning) when you connect with the serial monitor.

You can also talk to the board from Processing, Flash, MaxMSP, etc (see the interfacing page for details).

5.10. PREFERENCES

Some preferences can be set in the preferences dialog (found under the Arduino menu on the Mac, or File on Windows and Linux). The rest can be found in the preferences file, whose location is shown in the preference dialog.

5.10.1. LANGUAGE SUPPORT



5.1 Language support

URL PHISHING ANALYSIS

A Project Report Submitted to

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2018-2019

DEPARTMENT OF INFORMATION TECHNOLOGY

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B. ALEKHYA	**15E11A1203**
B. NAVYA	**15E11A1204**

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Viva-Voce held on..... 1/5/19 .....

1/5/19
Internal Examiner

External Examiner

ABSTRACT

Malicious Web sites largely promote the growth of Internet criminal activities and constrain the development of Web services. As a result, there has been strong motivation to develop systemic solution to stopping the user from visiting such Web sites.

We propose a learning-based approach to classifying Web sites into 3 classes: Benign, Spam and Malicious. Our mechanism only analyzes the Uniform Resource Locator (URL) itself without accessing the content of Web sites. Thus, it eliminates the run-time latency and the possibility of exposing users to the browser-based vulnerabilities.

By employing learning algorithms, our scheme achieves better performance on generality and coverage compared with blacklisting service.

URLs of the websites are separated into 3 classes:

- Benign: Safe websites with normal services
- Spam: Website performs the act of attempting to flood the user with advertising or sites such as fake surveys and online dating etc.
- Malware: Website created by attackers to disrupt computer operation, gather sensitive information, or gain access to private computer systems.

This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, **PO6, PO7, PO8**, PO9, PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.

7.3 RESULT ANALYSIS

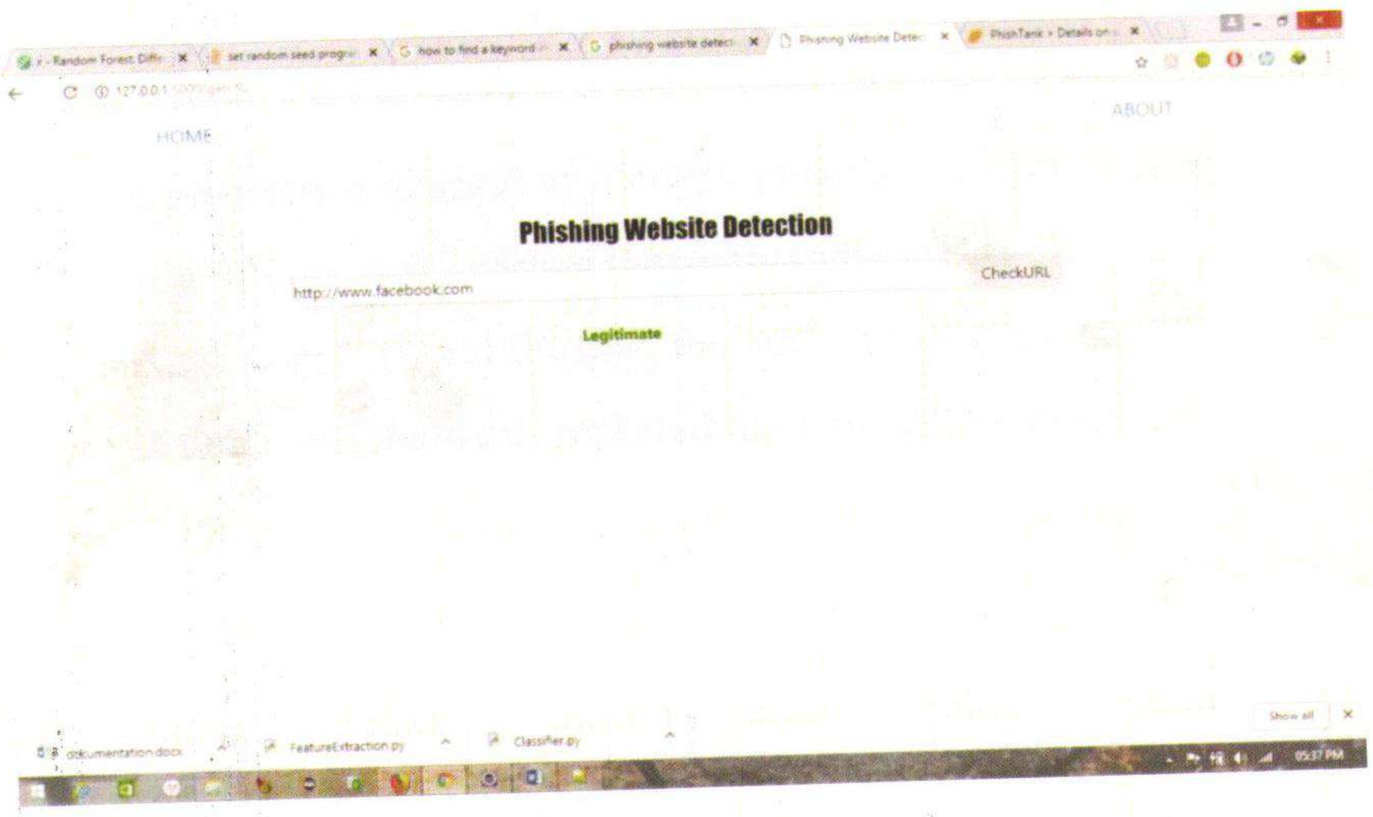

Fig 7.3.1 Screenshot (1)

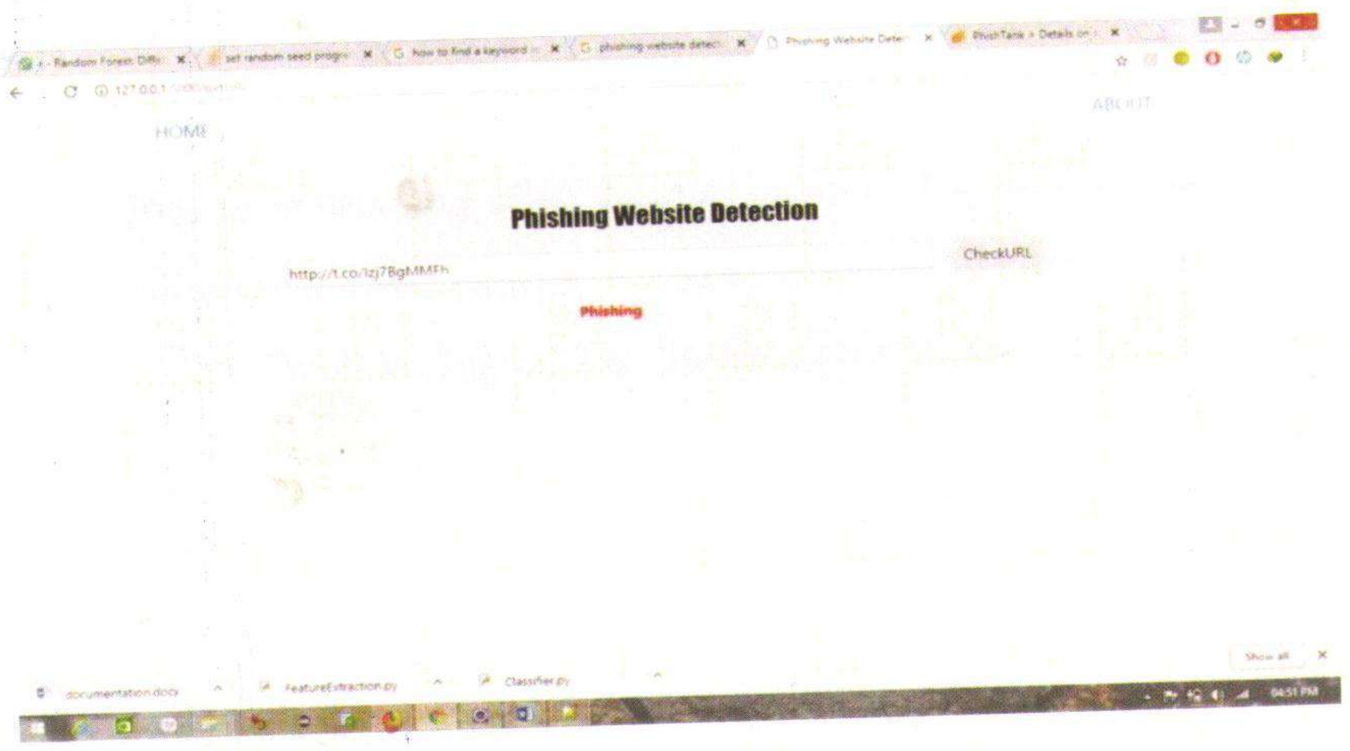

Fig 7.3.1 Screenshot (2)

INTELLIGENT SOLDIER HEALTH SECURITY COMMUNICATION

A Project Report Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfillment of the requirements
for the award of the degree of

BACHELOR OF TECHNOLOGY
IN
INFORMATION TECHNOLOGY
BY

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CH.ABHINAY KUMAR	**(15E11A1208)**
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2018-2019

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Certificate

This is to certify that the project work entitled **"INTELLIGENT SOLDIER HEALTH SECURITY COMMUNICATION USING SOLAR POWER AND IOT"** *is the bonafide work done*

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ABSTRACT

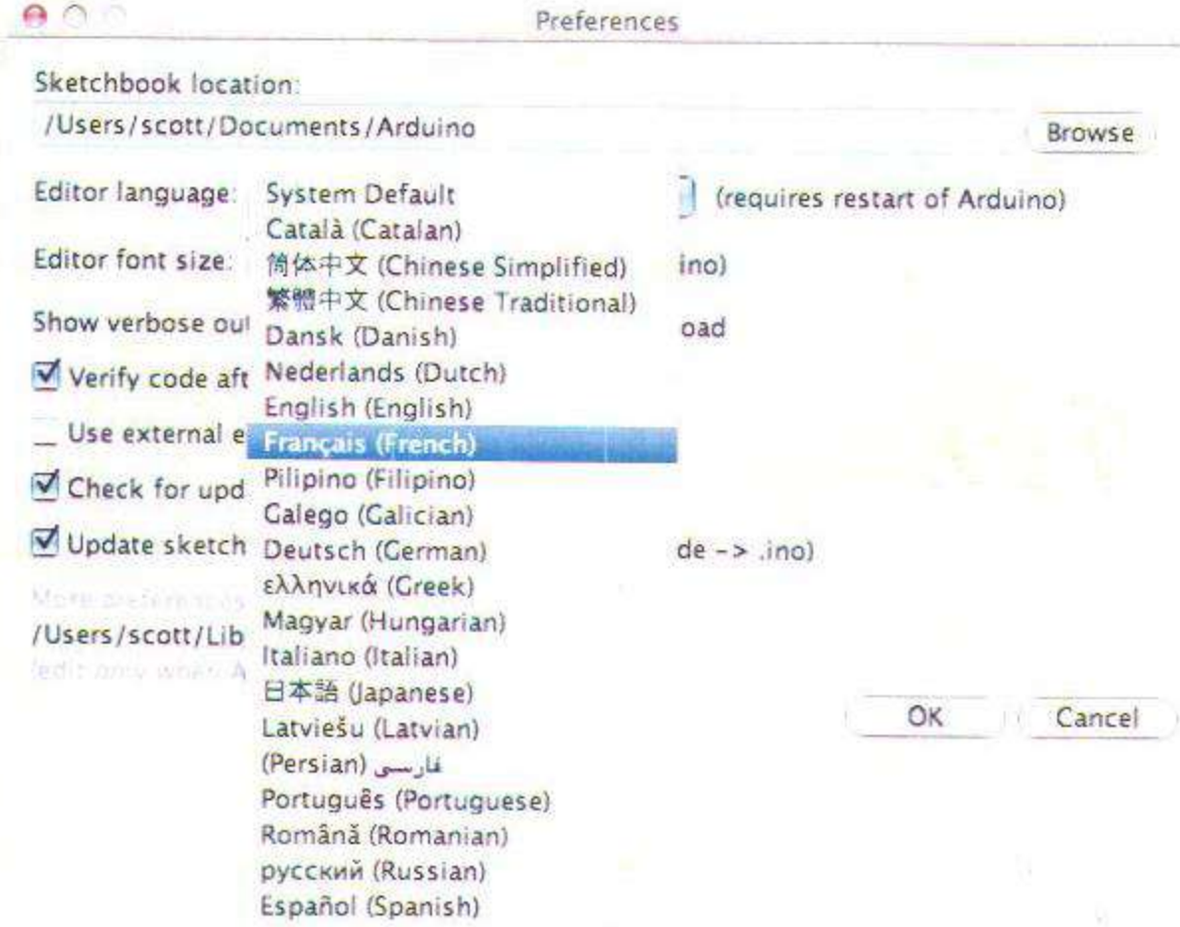
Soldiers are very essential part of any nation's security system. During, wars and search operations soldiers get injured and many of them become lost. As, soldiers health is important because they are the saviour of our country who protects us from enemy attacks, terrorist activities and from many suspicious activities which can harm us as well as our nation too. This project gives an ability to track the location and monitor health of the soldiers in real time who become lost and get injured in the battlefield. It helps to minimize the time, search and rescue operation efforts of army control unit. This system enables to army base station to track the location and monitor health of soldiers using GPS module and wireless body area sensor networks (WBASNs), such as temperature sensor, heart beat sensor, etc., The data coming from sensors and GPS receiver is transmitted wirelessly using IOT wi-fi module. Also, a soldier can ask for help from control room and can communicate with other fellow soldier present within the wireless transmission and reception range.

In this project we are going to design an E-Uniform which gives better protection to the soldiers who are working in extreme weather conditions. This Uniform will make the soldier to work in any kind of environment. Here we are using Solar Panels to power up the internal circuitry of the E-uniform. A 12 V DC lead acid rechargeable battery is used for storing the energy. We are using conventional battery charging unit also for giving supply to the circuitry.

The project is operated in two modes summer mode and winter mode. By selecting the mode of operation such that it can drive body heater/cooler. The heater/cooler in turn will help us to provide chilling or warming effect inside the uniform which helps the soldier to bear to any kind of external environment and he can work efficiently without heat stress or cold stress.

This Conventional power source uses regulated 5V, 500mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac output of secondary of 230/12V step down transformer.

LANGUAGE SUPPORT



Since version 1.0.1 , the Arduino Software (IDE) has been translated into 30+ different languages. By default, the IDE loads in the language selected by your operating system. (Note: on Windows and possibly Linux, this is determined by the locale setting which controls currency and date formats, not by the language the operating system is displayed in.)

If you would like to change the language manually, start the Arduino Software (IDE) and open the Preferences window. Next to the Editor Language there is a dropdown menu of currently supported languages. Select your preferred language from the menu, and restart the software to use the selected language. If your operating system language is not supported, the Arduino Software (IDE) will default to English.

You can return the software to its default setting of selecting its language based on your operating system by selecting System Default from the Editor Language drop-down. This setting will take effect when you restart the Arduino Software (IDE). Similarly, after

SECURE AND EFFICIENT PRIVACY PRESERVING PROVABLE DATA POSSESSION IN CLOUD STORAGE

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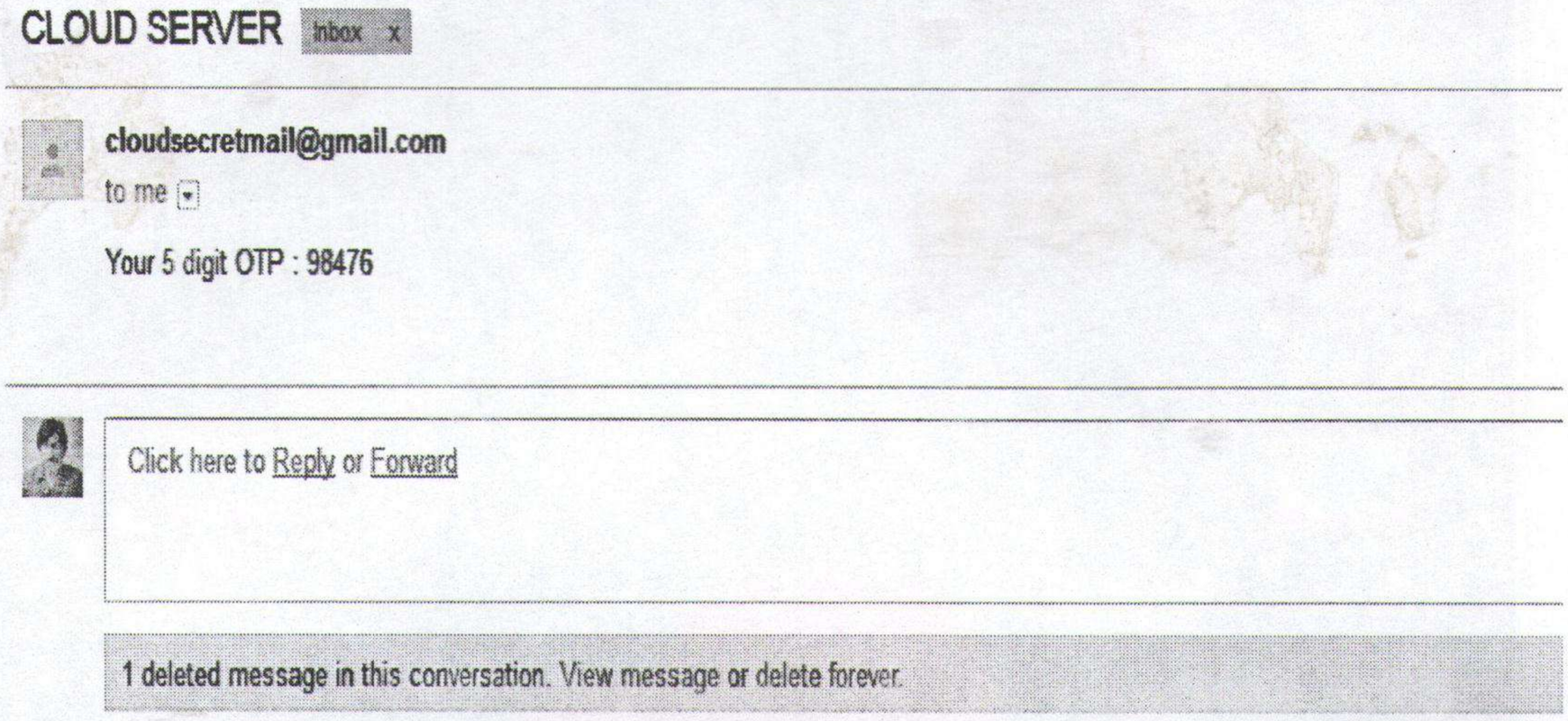
ABSTRACT

Cloud computing is an emergent paradigm to provide reliable and resilient infrastructure enabling the users (data owners) to store their data and the data consumers (users) can access the data from cloud servers. This paradigm reduces storage and maintenance cost of the data owner. At the same time, the data owner loses the physical control and possession of data which leads to many security risks. Therefore, auditing service to check data integrity in the cloud is essential. This issue has become a challenge as the possession of data needs to be verified while maintaining the privacy.

To address these issues this work proposes a secure and efficient privacy preserving provable data possession (SEPDP). Further, we extend SEPDP to support multiple owners, data dynamics and batch verification. The most attractive feature of this scheme is that the auditor can verify the possession of data with low computational overhead.

This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, and type of the this project is based on application and its standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.


CLOUD SERVER Inbox x

cloudsecretmail@gmail.com

to me

Your 5 digit OTP : 98476

Click here to Reply or Forward

1 deleted message in this conversation. View message or delete forever.

0.67 GB (4%) of 15 GB used
Manage

Terms - Privacy

Fig.7.3.6:OTP Received successfully

IoT BASED ROAD SIMULATOR AND SAFETY

A Project Report Submitted to

Jawaharlal Nehru Technological University Hyderabad

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*This is to certify that the project work entitled "**IoT Based Road Simulator and Safety**" is the bonafide work done*

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ABSTRACT

Internet of Things (IoT) constitutes an environment where in things interact with each other intellectually to provide useful and meaningful services. The services provided by the IoT systems can be used in wide variety of applications related to health care, transportation, resource management, entertainment, e- shopping, security, etc. Recent advances in IoT is paving the way to the Intelligent transportation wherein the vehicles embedded with the set of sensors can absorb information from the environment (and from the vehicle) and feeding it to drivers and infrastructure to assist in safe driving. This paper presents a report on the prototype design of Smart and Safe Driving Application (SSDA).The proposed Application is designed to avoid fatal road accidents by providing context aware alert information related to self road balancing, overall condition of the vehicle, objects surrounding the vehicle, traffic rules and drowsiness state of the driver. Majority of the road accidents occurs due to various reasons like drowsiness state of the vehicle driver, position of the vehicle in the traffic, unaware about the speed and condition of the other vehicles nearby, violation of traffic rules, abnormal condition of vehicle parts , abnormal driving of other surrounding vehicles , etc. .In this paper the authors have presented a system of IoT which captures the data from the environment and inside the vehicle using embedded sensors, wireless sensor network and internet to provide the contextual information for the driver to take timely actions for smooth and safety driving.

In this project we are making use of ultrasonic radar system and a DC geared motor driven firing unit interfaced with a Microcontroller based control unit. We prefer ultrasonic sensor, because the Ultrasonic sensors covers larger sensing distance and it can detect the target in all the lighting conditions (day or night). The programming of Microcontroller is done using Embedded 'C'.

This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, P06, P07, P08, PO9, PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.

7. CIRCUIT DIAGRAM AND WORKING

7.1. CIRCUIT DIAGRAM:

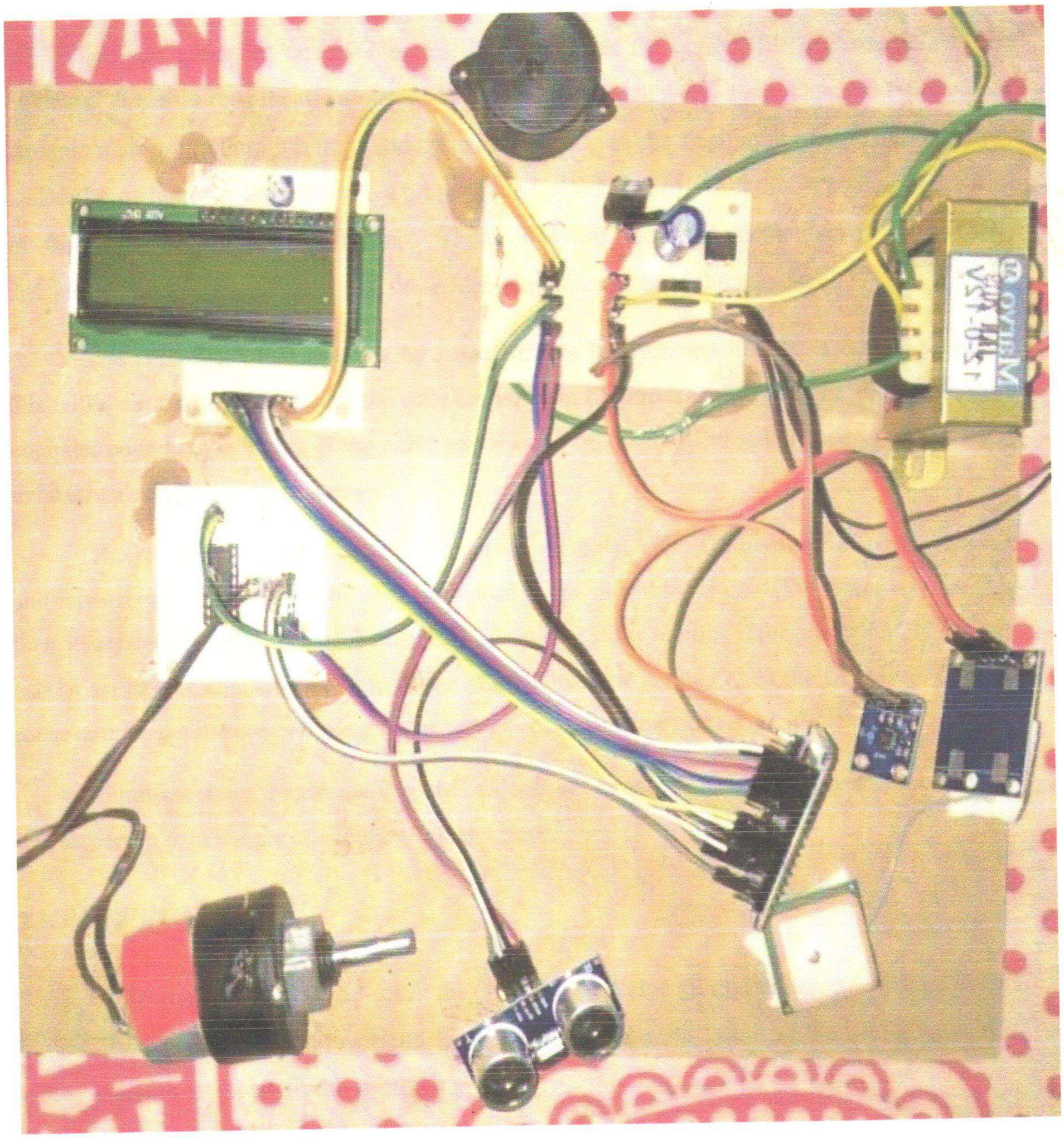

Figure 7.1: Circuit Diagram

IoT BASED SMART FIRE EXTINGUISHER

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ABSTRACT

The designing a robot which is capable of detecting a Fire in its path and extinguishes. The Robot every movement can be monitor by user over IOT (Internet of things) Application. This Robot also can avoid the obstacles in its path using IR obstacle sensor. By using internet web application user can monitor robot every movements, so that this robot can be useful for military, industrial, automobiles and many more places.

The robot is designed such capable of control using Wi-Fi technology. When we start the kit, robot moves forward and microcontroller continuously monitor both the sensors inputs (like fire and obstacle sensors). If any sensor activates then controller do respective operation and update the information to the user using internet communication.

The controlling device of the whole system is a Microcontroller, Wifi module, DC motors, IR Obstacle sensor, Water Motor with Relay. The Robot initially moves forward direction and update the status to the user, if in case fire sensors activates in front of the robot robot strops and sprinkle the water on fire, if obstacle sensor detects robot avoids
that by moving the left or right and update alert information to the user automatically.
In achieving the task the controller is loaded with a program written using Embedded 'C' language.

This Project Work Quality is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost , type (application, product, research, review etc.) and standards. This project work mapping with the Program Outcomes (POs): PO1, PO2, PO3, PO4, PO5, **PO6, PO7, PO8**, PO9, PO10, PO11, PO12 and Program Specific Outcomes (PSOs): PSO1, POS2 & POS3.

7.2 RESULT ANALYSIS

Module name: Microcontroller

S. No	Test Case	Input	Expected Output	Actual Output	Pass/Fail
1.	Read fire sensor	Values from fire sensor	Values must be read successfully	Values read successfully	Pass
2.	Read obstacle sensor	Values from obstacle sensor	Values must be read successfully	Values read successfully	Pass
3.	Start motor	If fire is detected start motor	Motor must ON	Motor ON success	Pass

Module name: GSM or IoT

S. No	Test Case	Input	Expected Output	Actual Output	Pass/Fail
1.	Retrieve load data	Load data	Load must be retrieved successfully	Retrieved successfully	Pass
2.	Store data on server	Data related to load	Must be successfully uploaded	Upload success	Pass

SENTIMENT ANALYSIS ON TWITTER

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This is to certify that the project work entitled **" Sentiment Analysis on Twitter "** *is the bonafide work done*

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ABSTRACT

Analysis of public information from social media could yield interesting results and insights into the world of public opinions about almost any product, service or personality. Social network data is one of the most effective and accurate indicators of public sentiment. The explosion of Web 2.0 has led to increased activity in Podcasting, Blogging, Tagging, Contributing to RSS, Social Bookmarking, and Social Networking. As a result there has been an eruption of interest in people to mine these vast resources of data for opinions. Sentiment Analysis or Opinion Mining is the computational treatment of opinions, sentiments and subjectivity of text. In this paper we will be discussing a methodology which allows utilization and interpretation of twitter data to determine public opinions.

Developing a program for sentiment analysis is an approach to be used to computationally measure customers' perceptions. This paper reports on the design of a sentiment analysis, extracting and training a vast amount of tweets. Results classify customers' perspective via tweets into positive and negative, which is represented in a pie chart, bar diagram, scatter plot and analyzing live tweets

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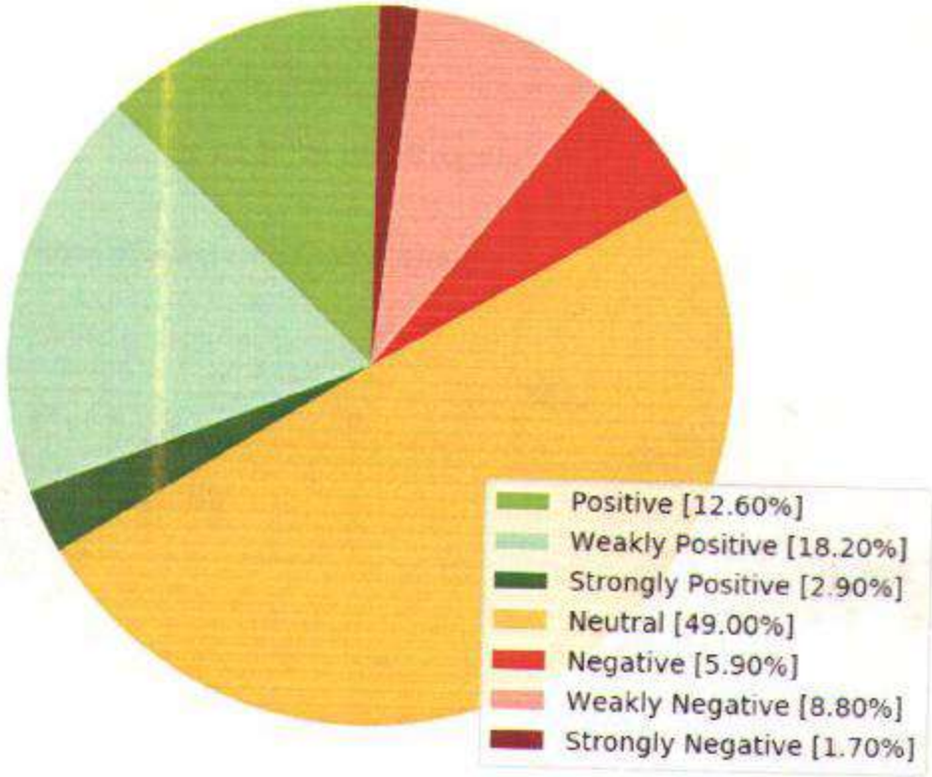

How people are reacting on jio by analyzing 1000 Tweets.

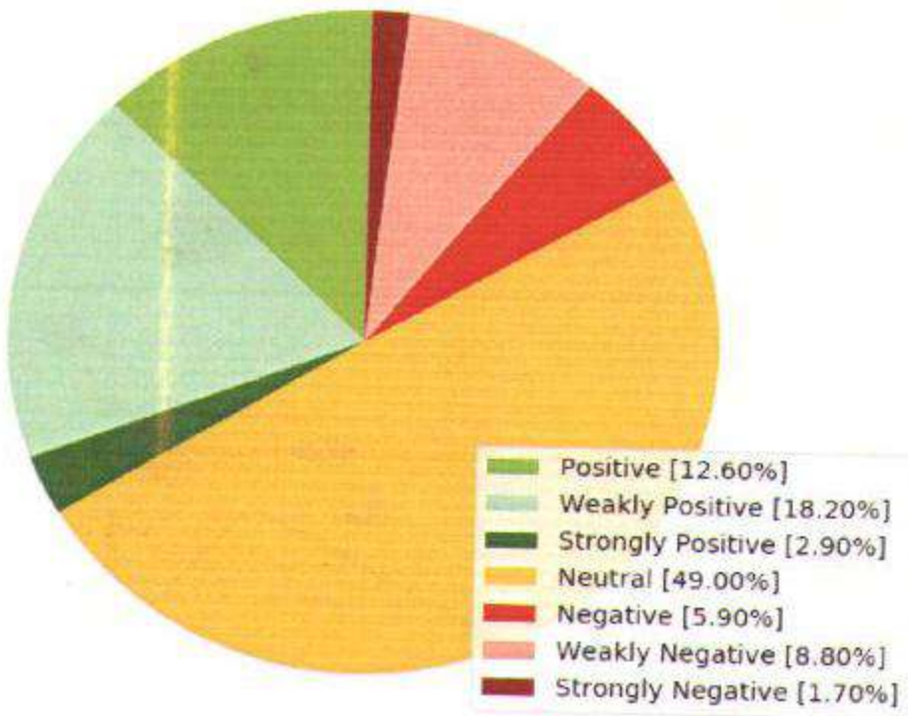

Fig 7.2.1 pie Dia