

# PORTFOLIO

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By NAZIA NUSRAT IMA



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## NAZIA NUSRAT IMA

My Portfolio is the reflection of all my Activities, accomplishments and achievement's I have done till now.

I am Nazia Nusrat Ima. I would describe myself as a hard-working, passionate, and dedicated individual. During under graduation, I acquired vast knowledge of theoretical through course work, practices, workshops, different projects, and industry visits. In my 1.5-year work experience, I got the opportunity to work with administrative support assisting with special projects, finding out the solution of the project, designing and producing complex documents, reports, and presentations. It made me realized that I learn better when put into a practical, result-oriented environment. It also helped me to develop my leadership skills, ability to preserve and overcome challenges, ability to turn negative into positive

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 [naz\\_nus@uni-bremen.de](mailto:naz_nus@uni-bremen.de)

## EDUCATION

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University of Bremen

April 2020 – Present

M.Sc. in Communication and Information Technology (CIT)

American International University-Bangladesh (AIUB)

May 2014 – May 2018

B.Sc. in Electrical and Electronic Engineering (EEE)

## Work Experience

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eGenaration Limited

Executive Assistance

December 2018 – July 2020

## SKILLS

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|                      |              |
|----------------------|--------------|
| Microsoft Office 365 | Advance      |
| C, C++               | Basic        |
| Python               | Advance      |
| HTML, CSS, Bootstrap | Advance      |
| JavaScript           | Intermediate |
| Adobe Photoshop      | Advance      |
| Adobe Illustrator    | Advance      |
| Latex                | Advance      |
| AutoCAD              | Intermediate |



# **MY WEBSITE BASED PROJECTS**

1

# NaZIA Blog

**Abstract:** This application I built is a blog style web application where different users can write different posts and share their views on various subjects. These posts can be blog posts or twitter updates. I choose this project, so that People can get information like Awareness of Environment issues or any other issues related to education, health, digital technology by the help of this Website. Any User can share any information related to any topic to all Users.

**Technology:** Python3, Django, Bootstrap4, HTML.

**View Code:** [https://github.com/nazianusrat/Nazia\\_Blog](https://github.com/nazianusrat/Nazia_Blog)

Below are the screenshots of the full featured web application using Python and Django framework. Django is a popular python framework that gives us a lot of functionalities right out of the box and makes it really enjoyable to work with web

The screenshot shows the registration page for the NaZIA Blog. The header has a dark blue background with the site name 'NaZIA Blog' and links for 'Home' and 'About' on the left, and 'Login' and 'Register' on the right. The main content area has a light gray background. It features a 'Join Today' heading and four input fields: 'Username\*', 'Email\*', 'Password\*', and 'Password confirmation\*'. Below the password fields is a list of validation rules. At the bottom is a 'Sign Up' button and a link for existing users to 'Sign In'. To the right is a sidebar titled 'Our Sidebar' containing placeholder text and sections for 'Latest Posts', 'Announcements', 'Calendars', and 'etc'.

Join Today

Username\*

Email\*

Password\*

Your password can't be too similar to your other personal information.  
Your password must contain at least 8 characters.  
Your password can't be a commonly used password.  
Your password can't be entirely numeric.

Password confirmation\*

Enter the same password as before, for verification.

Sign Up

Already have an Account? [Sign In](#)

Our Sidebar

I can put any information here I like.

Latest Posts

Announcements

Calendars

etc

New users can create an account from the register page and if you already have an account, you can log in from the login page as shown below.

## Log In

Username\*

Password\*

[Log In](#)

[Forgot Password?](#)

Need an Account? [Sign Up](#)

On the login page, there is a “forgot password” link that allows users to reset their password. Once a user clicks on this, the system request for the email associated with the account and the password reset instructions is sent to his/her email.

Your account has been updated!



## Nazia

nazeeyanusratima@gmail.com

### Profile Info

Username\*

Nazia

Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

Email address

nazeeyanusratima@gmail.com

Image\*

Currently: [profile\\_pics/cat\\_WoI0EJ2.jpg](#)

Change:

Choose File No file chosen

Update

A logged in user can view his profile and can update his profile picture, email address and username. The picture is automatically resized in the background in case the picture is too large to save room on our web server. A logged in user can also create and update posts.



Nazia March 31, 2021

## Visit to Bremenhaven

My visit to Bremenhaven was very interesting and enjoyable.



Time March 26, 2021

## My First Post - The Phantom Zone

The Phantom Zone is a fictional prison-type Parallel dimension appearing in American comic books published by DC Comics, commonly in association with stories featuring Superman. It first appeared in Adventure Comics #283 (April 1961), and was created



Wilfred March 26, 2021

## My Latest Updated Post

Erat expetenda definitionem id eos. Semper suscipit eum ut, eum ex nemore copiosae. Nam probatus pertinacia eu! No alii voluptua abhorreant nec, te pro impedit concludaturque, in sea malis torquatos disputationi! Nam te alii nobis ponderum, ei fugit accusamus pro.

Congue salutandi ex eam! Mei an prima consulatu, erat detracto eu quo? Vim ea esse utinam efficiantur, at noster dicunt.

1

2

3

Next

Last

On the homepage, each user can view their posts as well as posts by others. Each user can update or delete their individual posts.

The screenshot shows the Django administration interface for a blog application. The left sidebar has sections for AUTHENTICATION AND AUTHORIZATION (Groups, Users), BLOG (Posts), and USERS (Profiles). The main content area is titled "Select post to change" and shows a list of 9 posts. The posts are listed vertically with checkboxes next to each title. The titles are: POST, My favorite Quote on Culture, How I see Culture, Visit to Bremenhaven, My First Post - The Phatom Zone, My Latest Updated Post, Sublime Text Tips and Tricks, My Updated Post, Post 4, and Post 2.

Django administration page. This gave me access to a nice GUI to view all the backend information and update it on the fly

## Conclusion:

Through this website, I have mastered how to work with databases and create authentication systems, accept users input from forms and send emails to reset passwords.

This web application was successfully implemented with help of various tools from the links below

Links: [www.coreyMS.com](http://www.coreyMS.com); [www.codewithmosh.com](http://www.codewithmosh.com)

**Abstract:** A web-based application form to register for a class (Front-End). The project is all about making use of computer for the admission of the students rather than doing it manually. This system provides the way to get admission easily and efficiently. In short, it reduces the paper work and also keeps the record of information.

2

## Online Admission Form

The screenshot shows a web-based application form titled "Yoga Class Subscription". At the top center is a small icon of a person in a meditative lotus pose. Below the title, a note states: "Note: Form is to be completed at least 15 days prior to date".

**Personal Details**

Name:

Address:

Email:

Phone Number:

Emergency Phone Number:

**Gender**

Male  
 Female  
 Other

Date of Birth:

**Check All That Apply**

I am a Yoga Beginner  
 I am at Intermediate level of Yoga  
 I am at Advance level of Yoga  
 Can attend weekly three classes  
 Can attend weekly 5 classes

Occupation:  Education Level Completed:

**Essay Section**

In 50 words or more explain why you want to join Yoga Class

Please upload contact details for 2 references

Upload Police Clearance Certificate, CV and Medical Certificates here:

### Conclusion:

The website is successfully implemented with help of various links and tools

Links: [www.coreyMS.com](http://www.coreyMS.com); [www.codementor.com](http://www.codementor.com); [www.w3schools.com](http://www.w3schools.com); [www.htmlandcssbook.com](http://www.htmlandcssbook.com)

## আমি এবং আমরা

### Abstract:

In the Internet age many new methods used for product promotion and marketing. Keep that in mind this Online Marketing website has been built where customers can look for any kind of traditional dress through online.

Technology: HTML, CSS, Bootstrap, JavaScript.

# আমি এবং আমরা

**Exactly What You Need**

আমি এবং আমরা has been proudly providing high-quality products and services to the Bangladesh area since 2014. What differentiates us from other businesses is our ability to truly connect with our customers, and provide the exceptional, compassionate service they deserve.

To learn more, simply browse through our site.

[Contact](#)



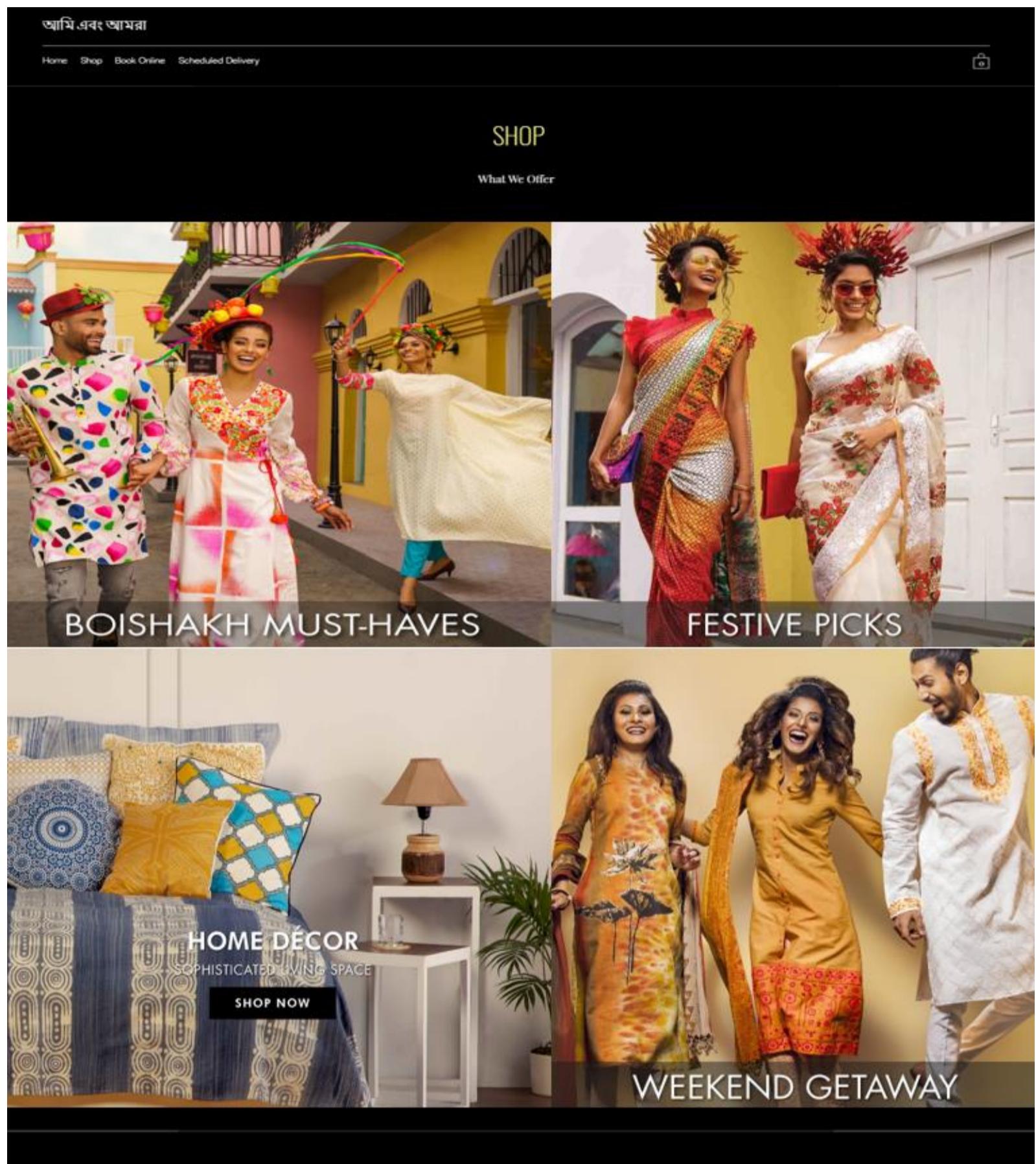
### আমি এবং আমরা

Since opening in 2014, we have become masters of our craft. Our commitment to quality products, exceptional services, and incomparable customer care keep our community coming back again and again.

We never stop improving and will continue to expand our offerings based on how we can best serve the San Francisco area. Get in touch with us today to learn how আমি এবং আমরা can help you.



Customers can look through this Home page and can get knowledge about the shop like when it was established and what kind of product they sell.



In this part Customer can find different section like Baisakhi Wear, Weekend wear and also home décor.

## SERVICES SECTION TITLE

Here's What We Provide

### CUSTOMER SERVICE CALL

This is one of our most popular services available. It's made a big difference for many of our customers, and is provided with the highest level of excellence. With this service, we ensure all details are simple, seamless and handled in a timely manner. Whenever you work with আমি এবং আমরা, you can trust that you're in great hands.

### SCHEDULED DELIVERY

We want all of our customers to experience the impressive level of professionalism when working with আমি এবং আমরা. All of our services, especially this one, exist to make your life easier and stress free. You can trust us to supply you with the best products, as well as top quality customer service. For your Product please send us your address through email with your identification.

### SHOPPING CONSULTATION

Frequently utilized by most of our customers, this service has been essential to success on many occasions. When it comes to all of our services, you can count on us to take care of your every need. We pride ourselves on our exceptional customer service, and guarantee you'll love working with our team. Let us know how we can assist you today.

### OPENING HOURS

#### Come Visit

Monday - Thursday: 9am - 8pm

Saturday - Friday: 4pm - 8pm

Sunday: Closed

### GET IN TOUCH

Banani Model Town, Dhaka, Bangladesh

amiamra@gmail.com

+8801720277613

Name

Email

Phone

Address

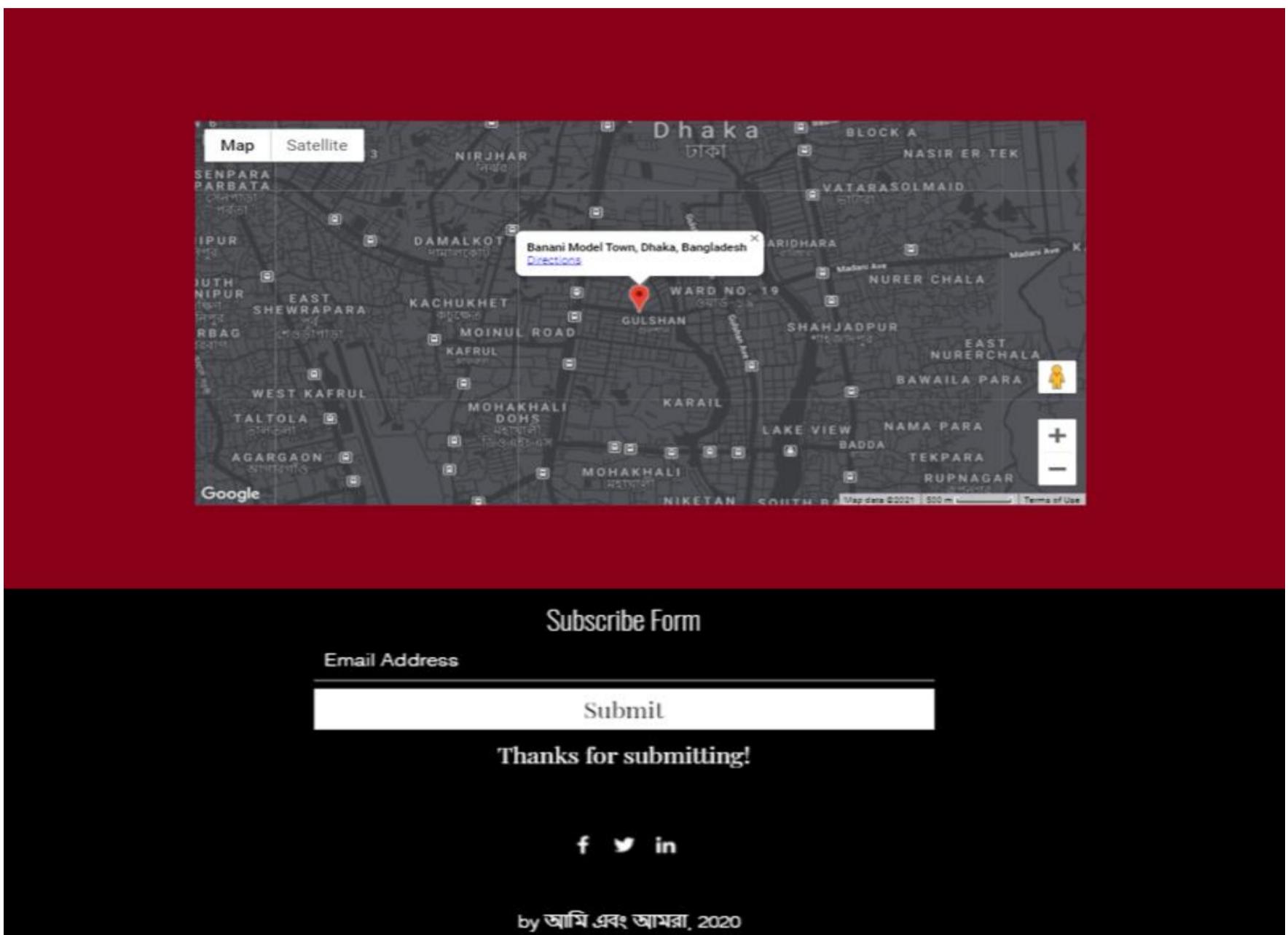
Subject

Type your message here...

Submit

Thanks for submitting!

From this Section Customer Can take appointment for the visit and if want can consult about Products and also can choose for home delivery.



In this section customer will find subscription option. By using this they can collect points and later can use as discount.

#### Conclusion

The website is successfully implemented with help of various links and tools.

Links: [www.freecodecamp.org](http://www.freecodecamp.org); [www.w3schools.com](http://www.w3schools.com); [www.htmlandcssbook.com](http://www.htmlandcssbook.com)



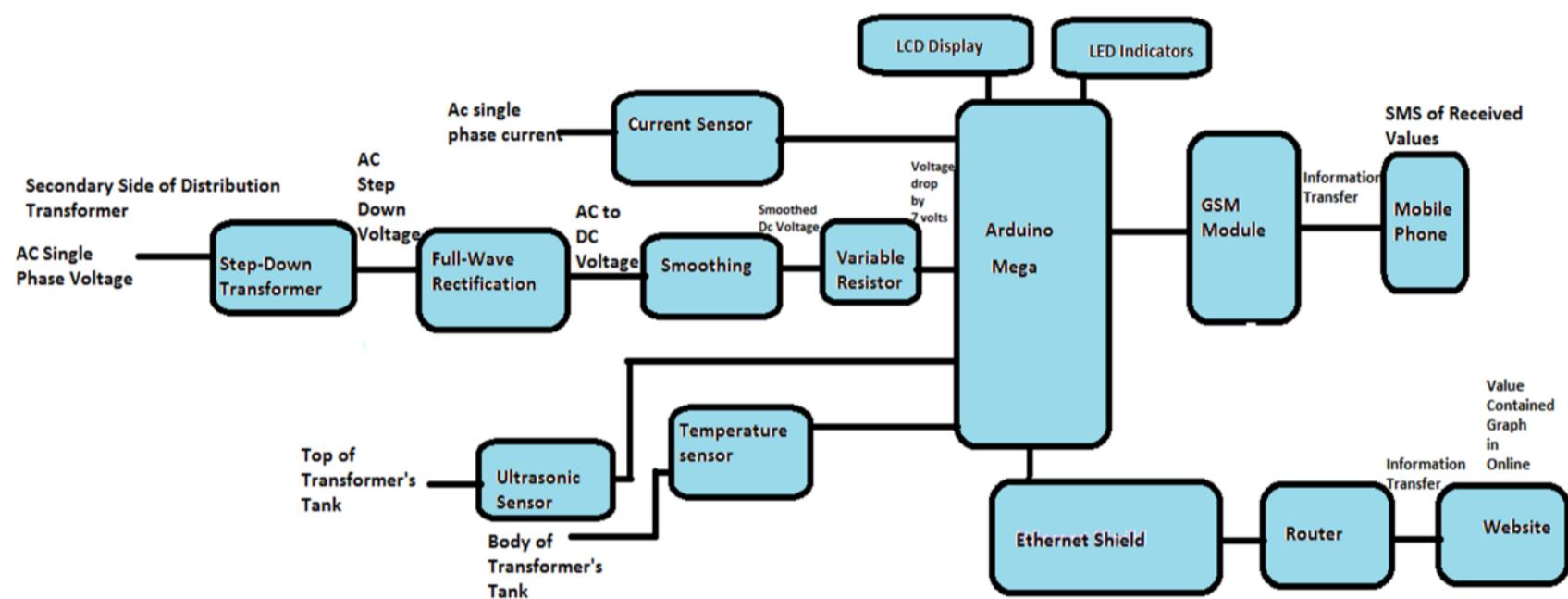
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**MY  
FINAL  
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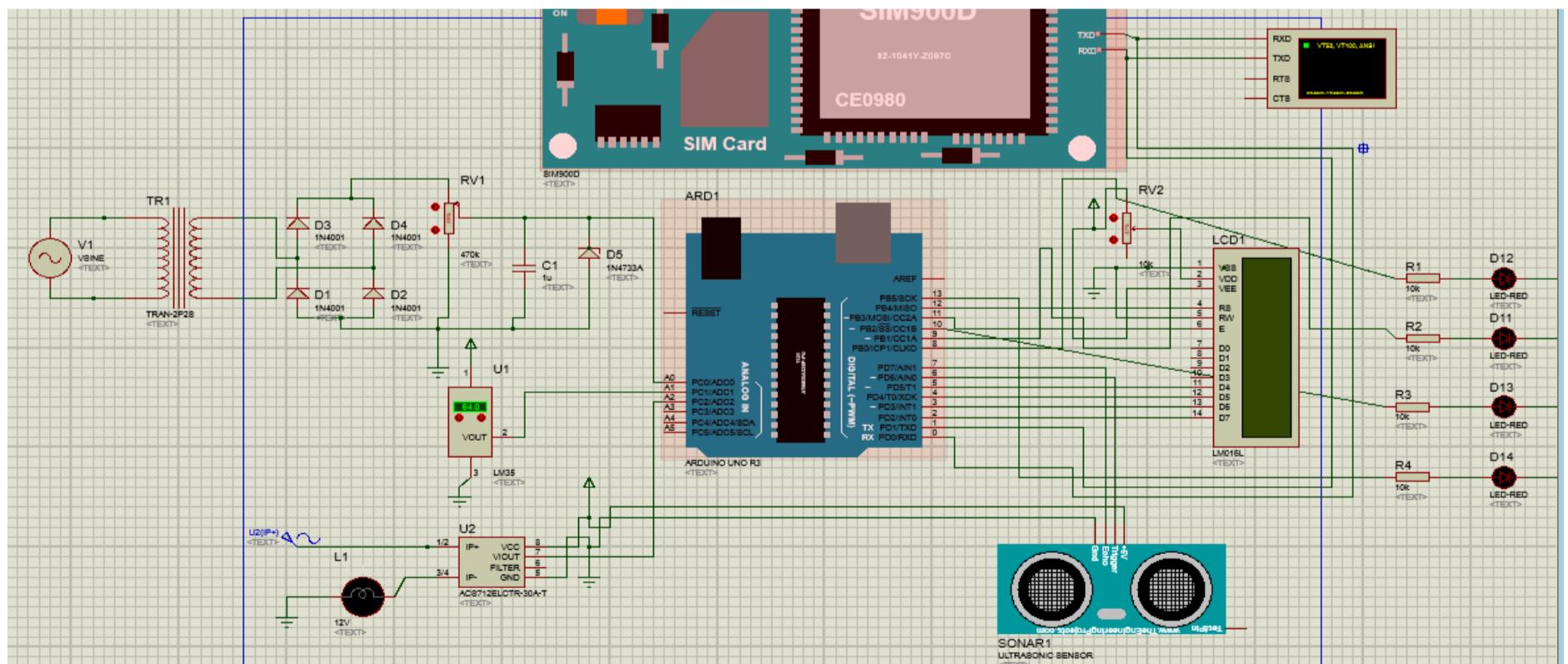
# IOT Based Online Monitoring System for Transformer

**Abstract:** This project is about implementation of an IoT (Internet of Things) and GSM embedded monitoring system for transformer. This project will instantaneously monitor the key parameters of transformer such as phase voltage, phase current, core temperature, windings temperature, oil level. Using internet of things technology will help us get the real time data from a transformer. It also can be used for fault detection in transformer. When parameter values exceed the given safety threshold it will send SMS via gsm to governing body. Data acquired from these parameters can be simultaneously uploaded to any server. Monitoring these parameters will minimize the chance of accidental outage of transformer. Implementation of this project can be done in power generation sectors, sub-stations, distribution transformer. This project will play a huge role on implementation the smart grid system.

## Methodology for Achieving the Goal



## DESIGNED Prototype:



## Simulated Final Result

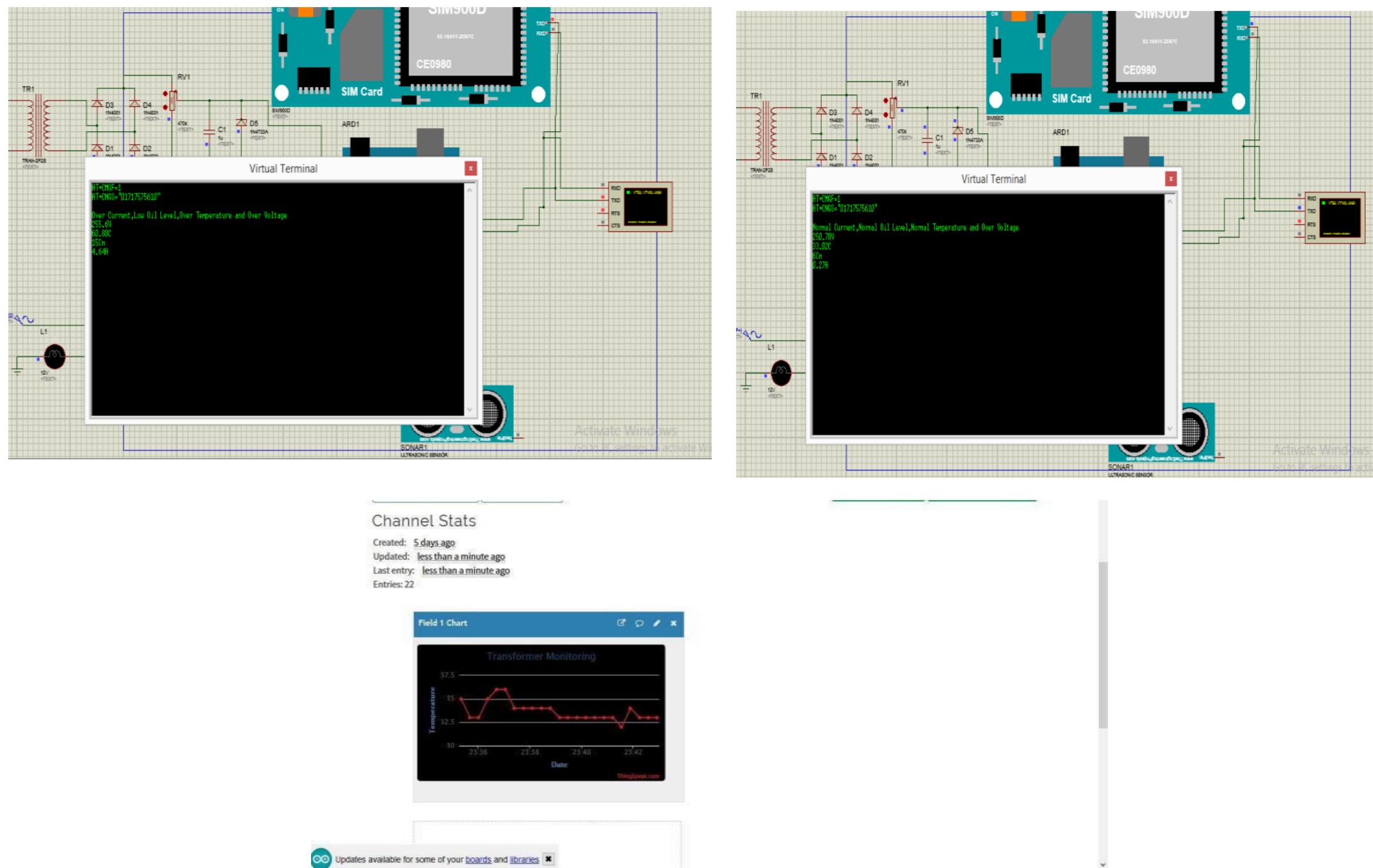


Figure: Graphical Presentation of Winding Temperature in Things-Speak Server & Confirmation of Normal State of transformer

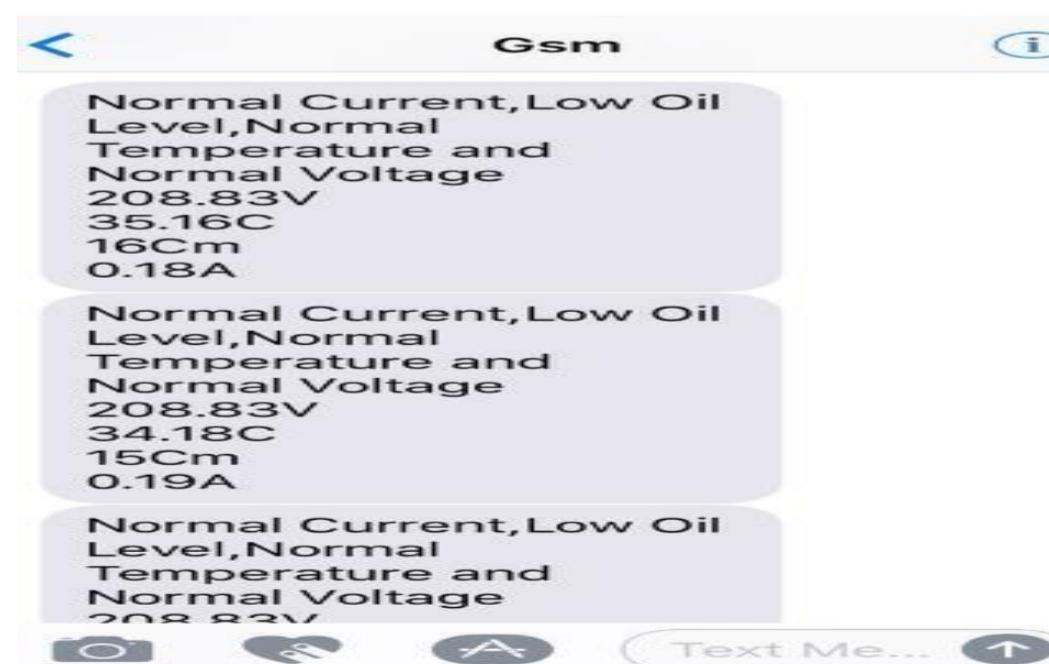


Figure: SMS informing the current state of transformer.

## Conclusion:

Few more improvement can be made on this project. A dedicated server and website can be made to store all the information received by our circuit from all around about a power transformer which can be accessible from every place of the Bangladesh. More over a GPS module can be setup to specify the exact location of the faulty transformer over the website.

A Group Picture with the Supervisor Prof. Dr. Abdul Mannan.

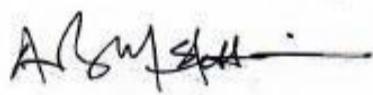


# **ACHIEVEMENT**



I achieved the Dean's awards for my Thesis Project (Final Year project) along with my group mates



  
Prof. Dr. A.B.M. Siddique Hossain  
Dean, Faculty of Engineering

  
Prof. Dr. Md. Abdur Rahman  
Director, Faculty of Engineering



APRIL 30, 2018

**AIUB**  
**EEE&CoE**  
FACULTY OF ENGINEERING

American International University-Bangladesh



# HOBBIES

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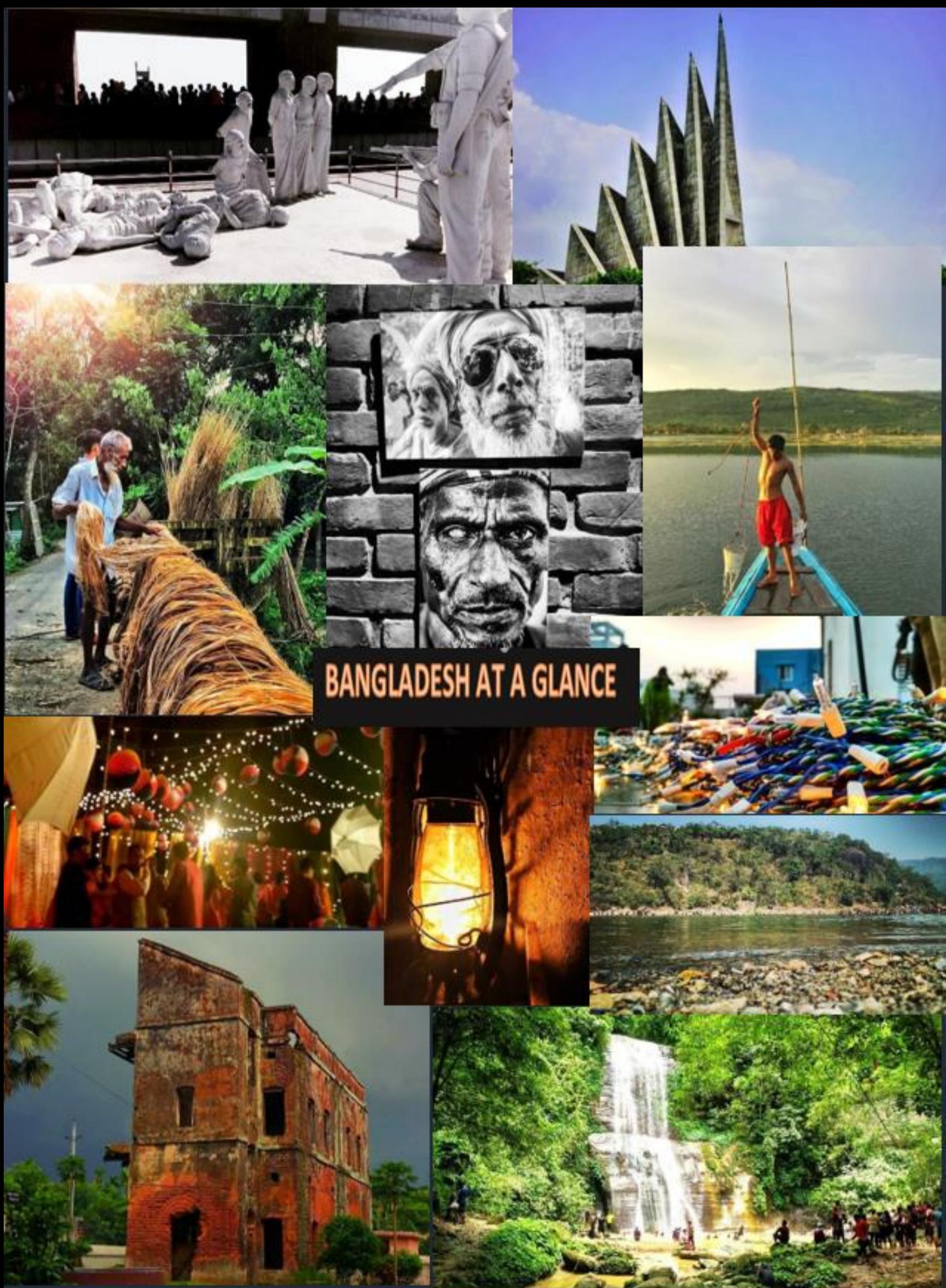
I have interest in photography. I feel like picture is that not only capturing our moments but also giving us a chance to live the moment again. I love to travel a lot. Travelling is one of those few activities that have a kind of reset button in our lives. So, I always try to capture the moments whenever I go for the trip.

Along with photography I also have interest in painting and sketching. Sometimes when I get tired of my studies, I just take pencil and start sketching.

I have shared some of my photography and paintings in this portfolio.

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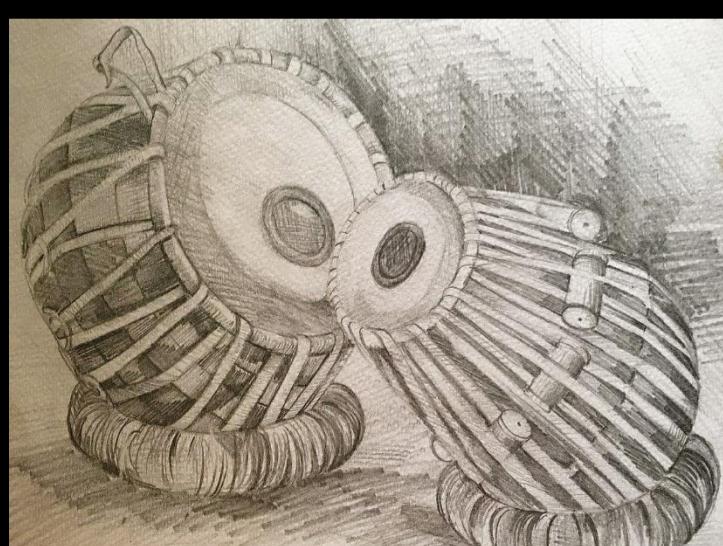
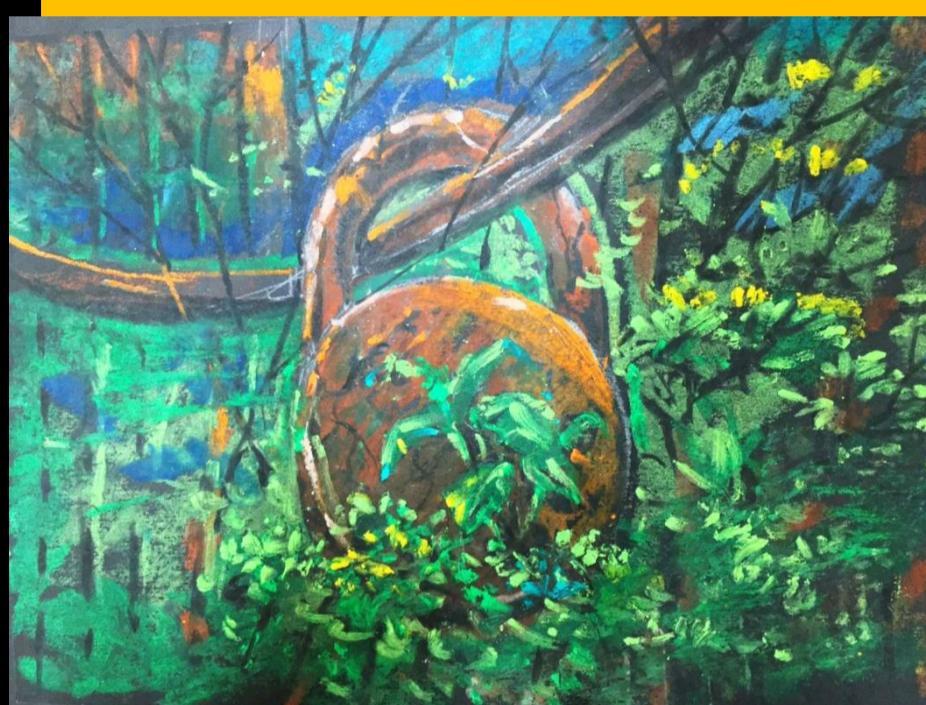
I have shared some of the pictures I took during my travel to different places of my Country. Furthermore, I have tried to share a glance of my beautiful country so that you can get familiar with the culture.



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**My  
OTHER  
PROJECTS**

# ARDUINO BASED BLUTOOTH CONTROLLED HOME AUTOMATION SYSTEM

**ABSTRACT:** This project shows an implementation of microcontroller-Bluetooth based system which can be controlled by an android phone. The communication between the cell phone and the Arduino BT board which is wireless. In android platform several free applications are already available to use for this kind of purpose.

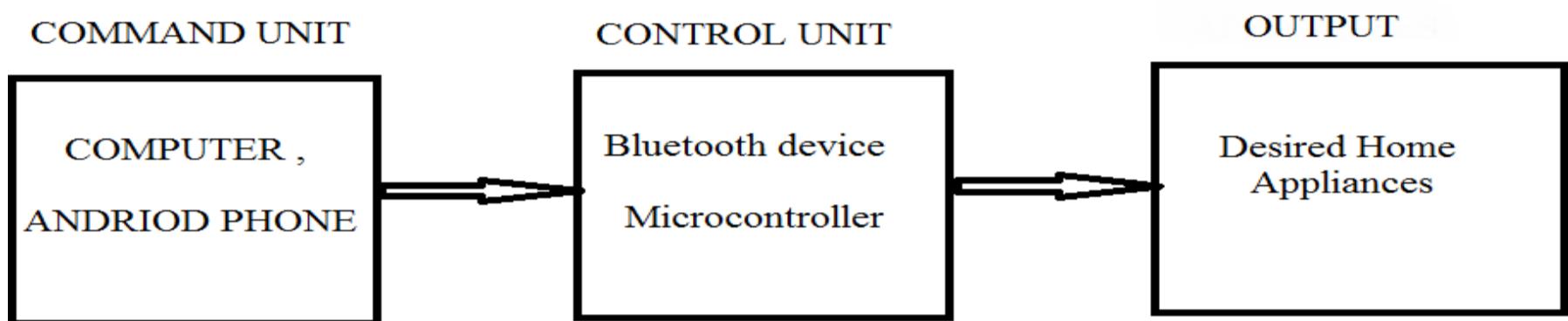


Figure: Block Diagram Showing Operation of a Home automation System



Figure: Another Block Diagram Showing the Operation of System

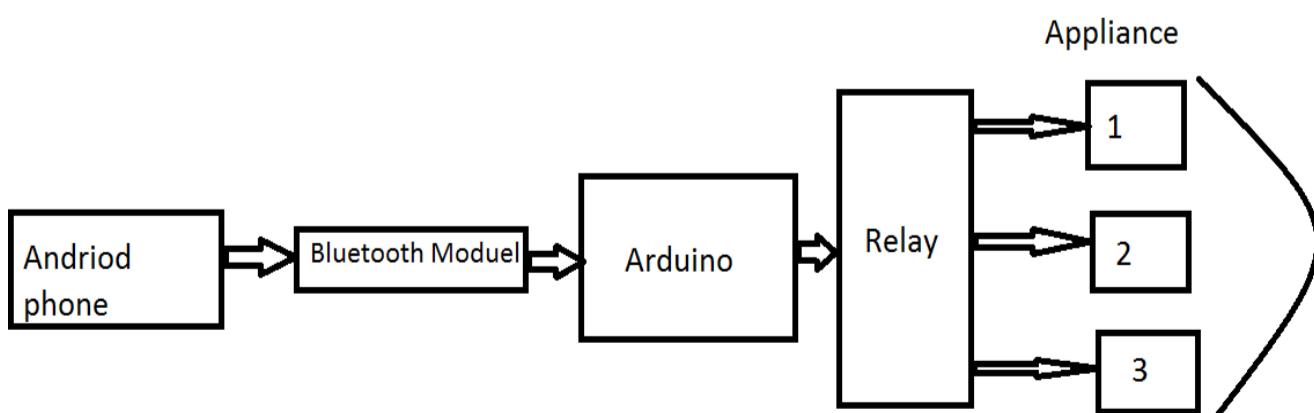


Figure: Functional block diagram of system

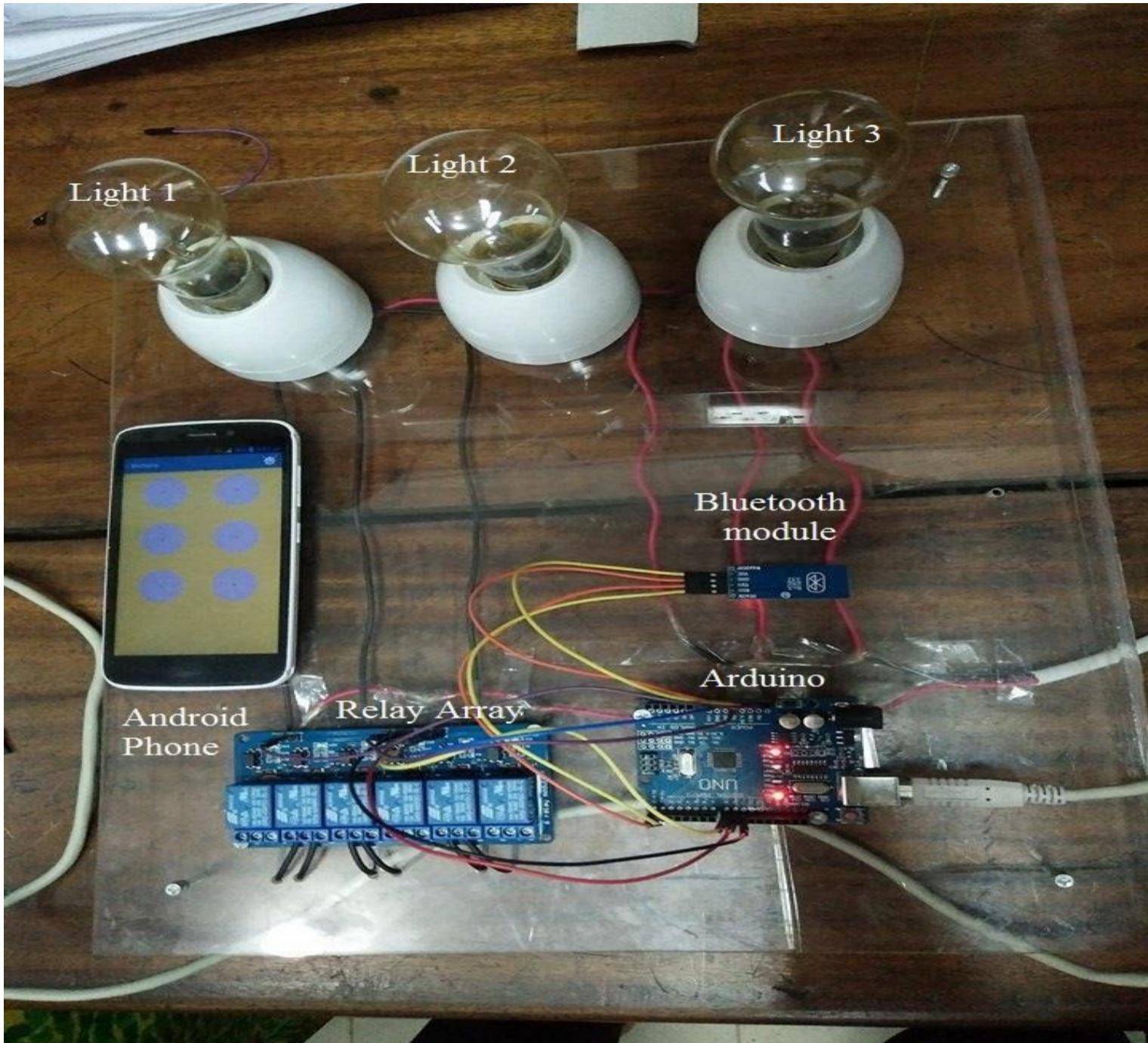
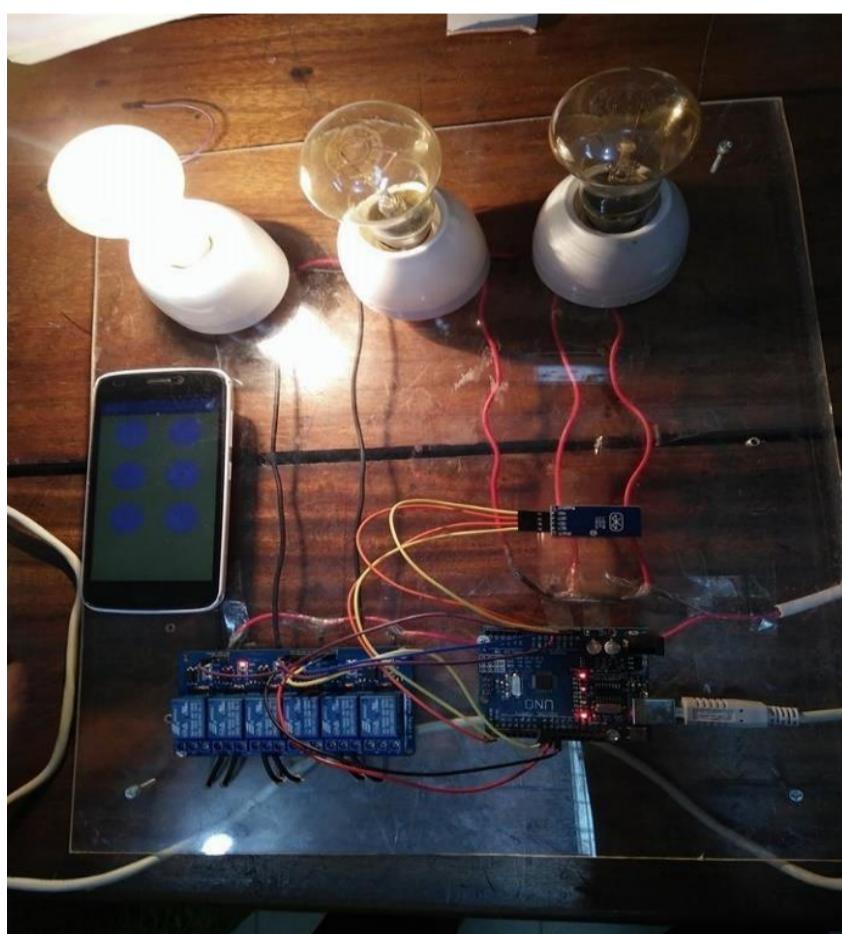
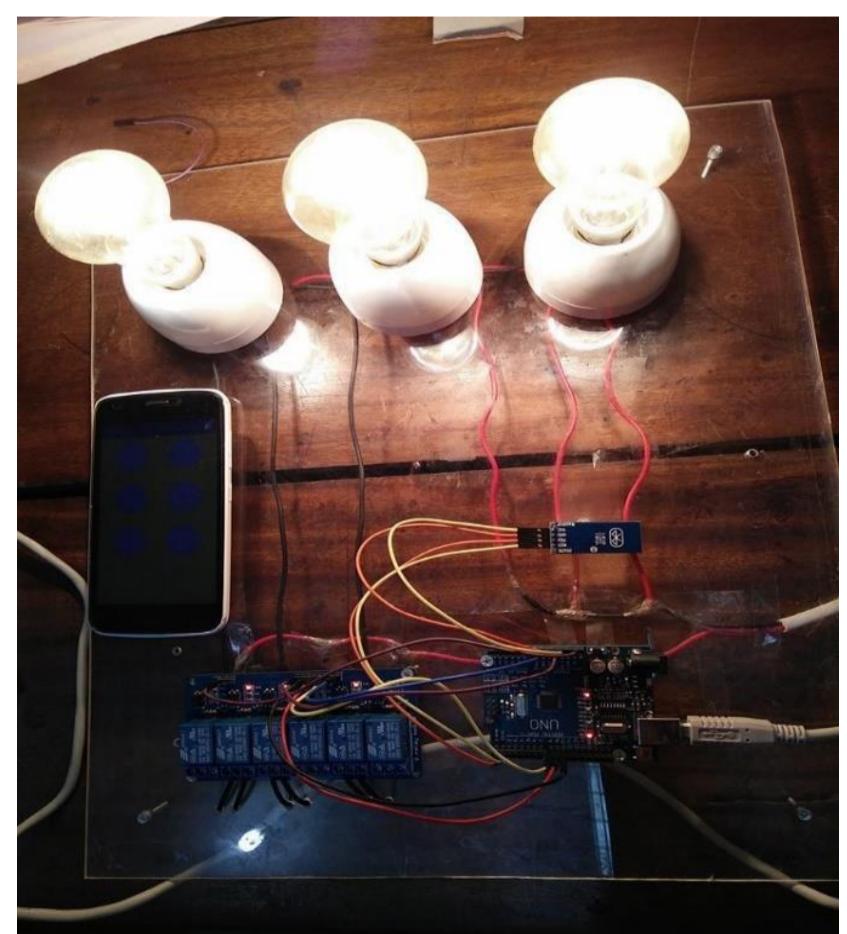


Figure: Hardware Implementation



Light 1 on



All Three Lights are on

## CONCLUSION

This project was meant as a prototype. It was a successful project. All interfacing from phone to Bluetooth module.

# INTELLIGENT GREENHOUSE

## ABSTRACT

For producing maximum crops utilizing less physical work an intelligent greenhouse system is introduced.

This project highlights on controlling the atmosphere according to the need of a plant.

For controlling the atmosphere, many sensors have been used. Based on simulation and experimental work it's possible to make a suitable atmosphere

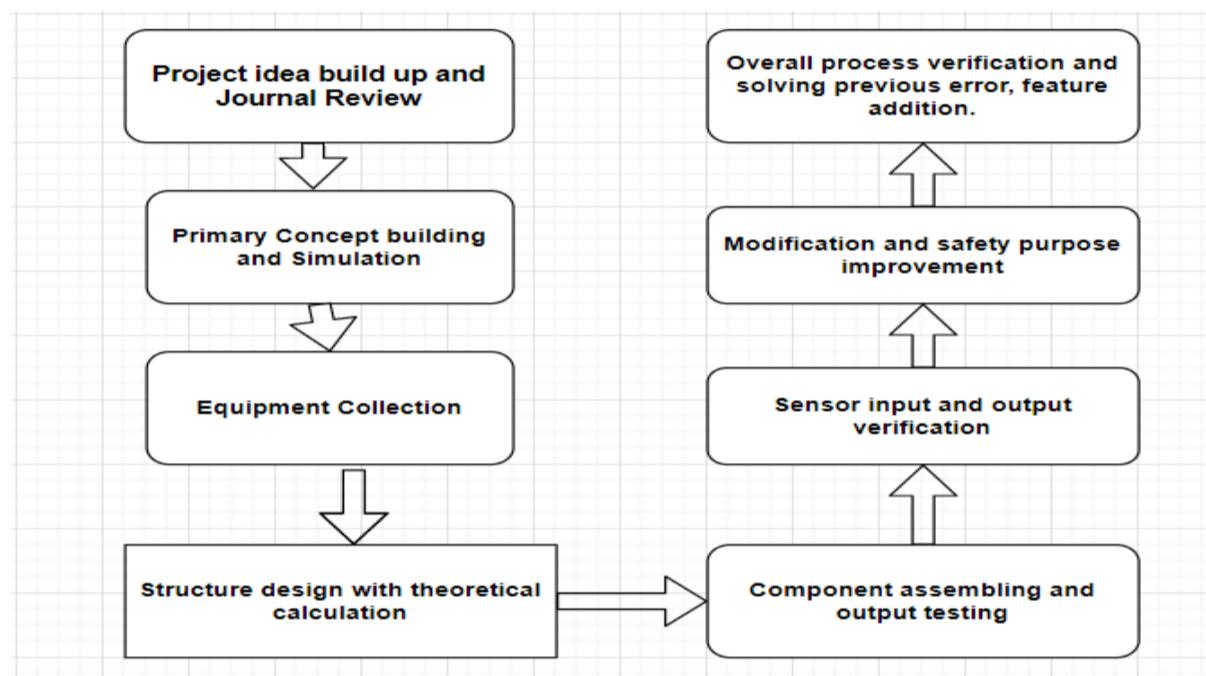


Figure: Flow Chart

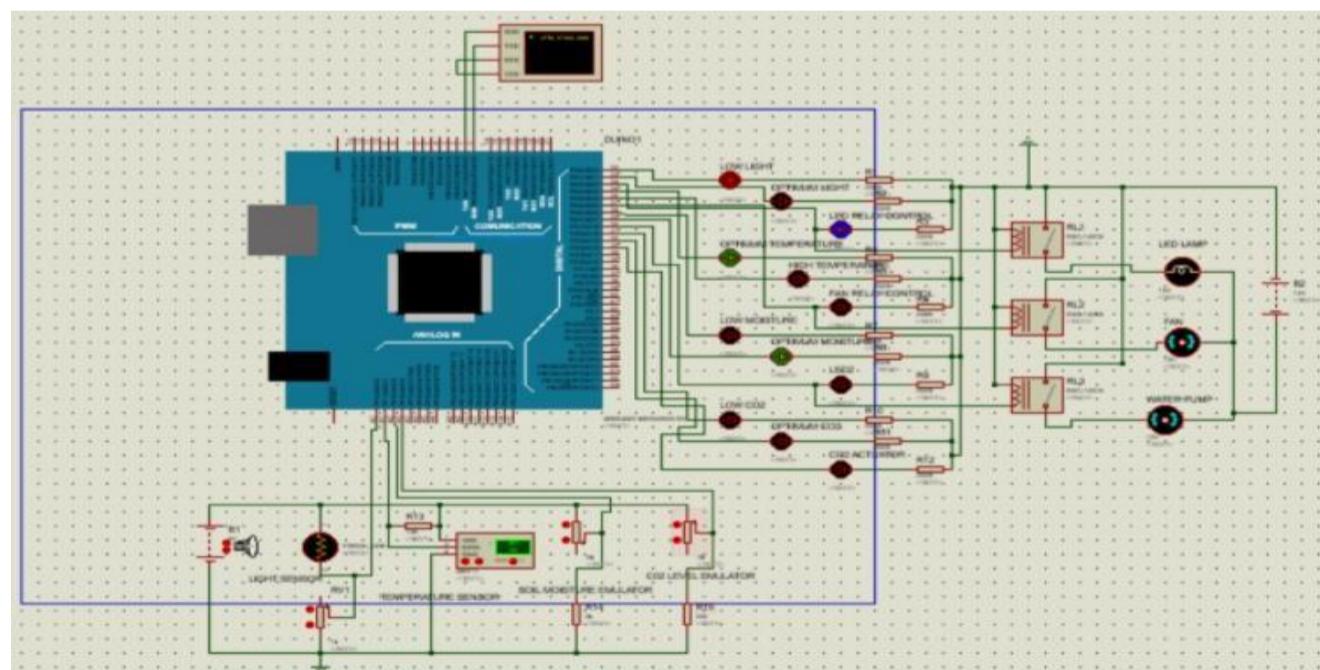


Figure: Full Simulation of the Intelligent

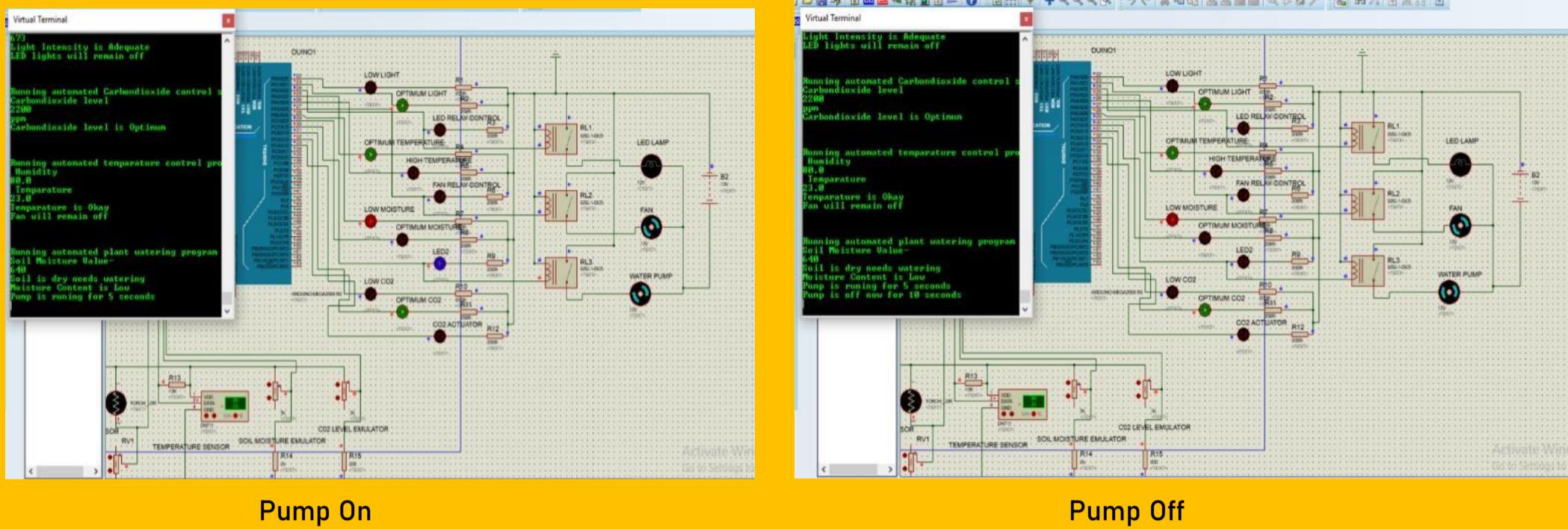


Figure: Optimum Condition of Soil Moisture in Simulation

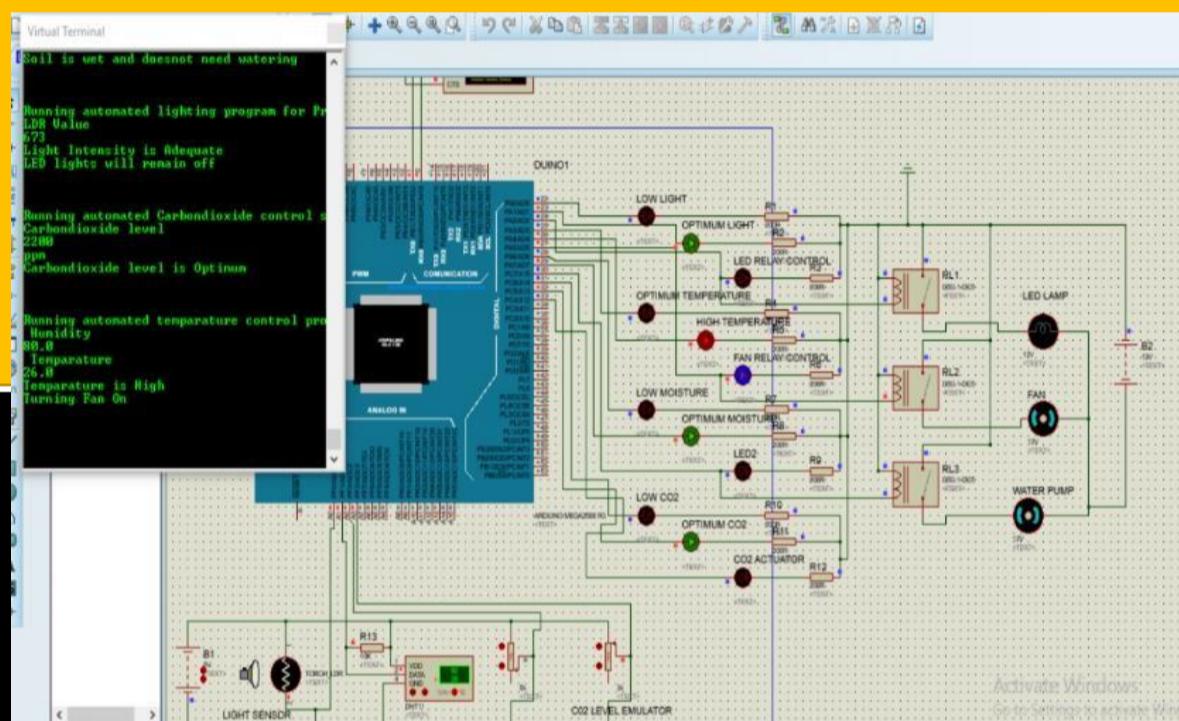


Figure: High Temperature with LED and FAN on.

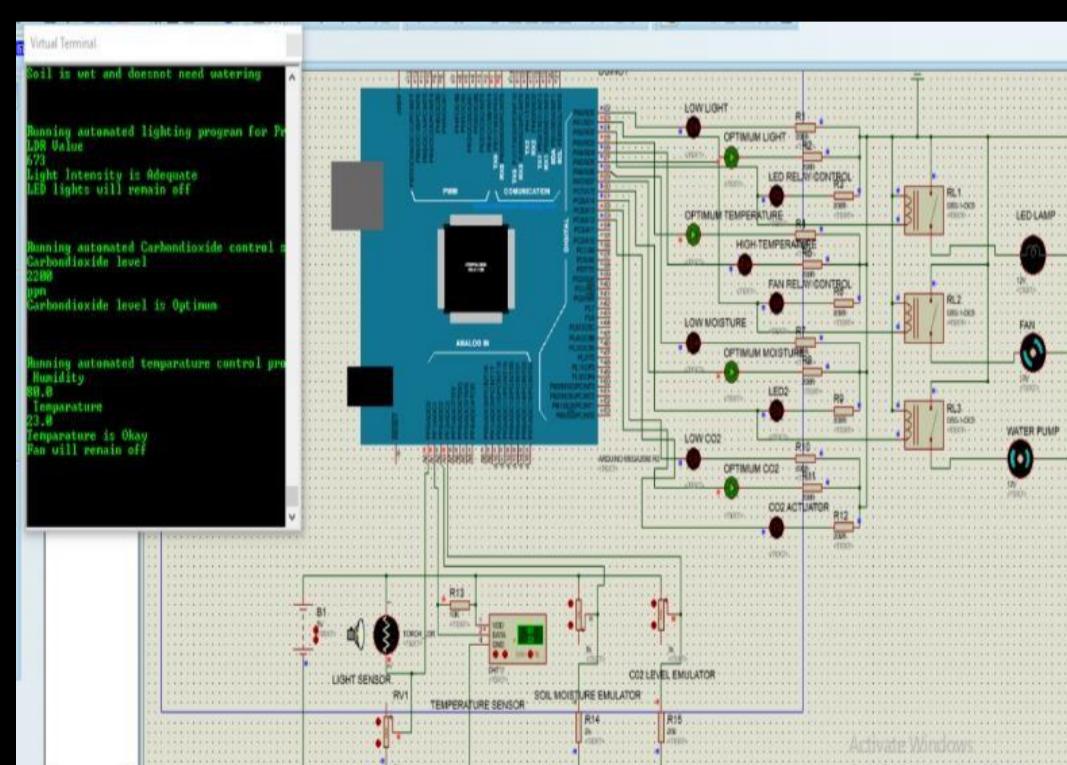


Figure: Optimum Condition of DHT-11 in Simulation.

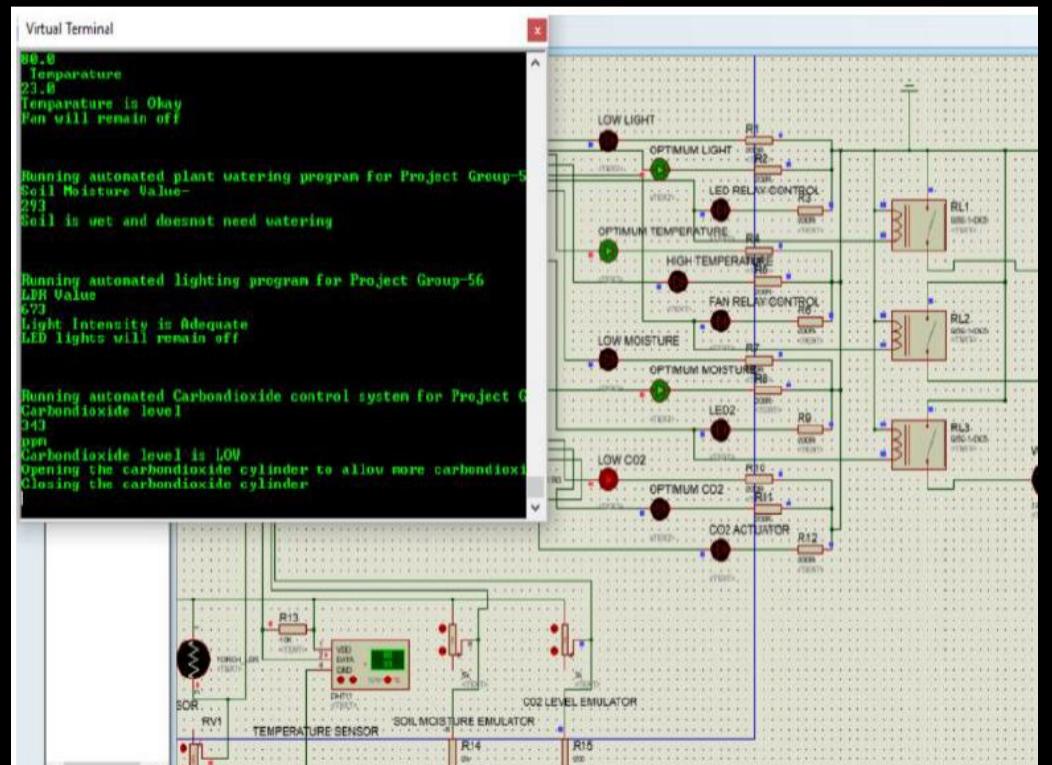


Figure: LOW Concentration of CO2 Condition

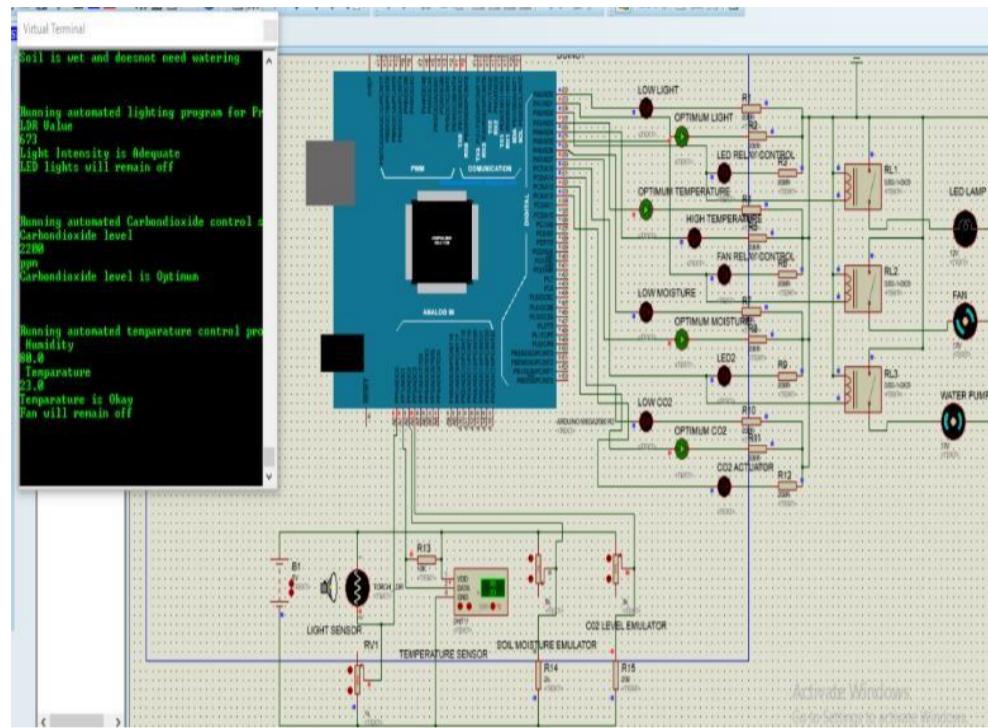


Figure: Optimum Concentration of CO<sub>2</sub> condition MQ135 in Simulation

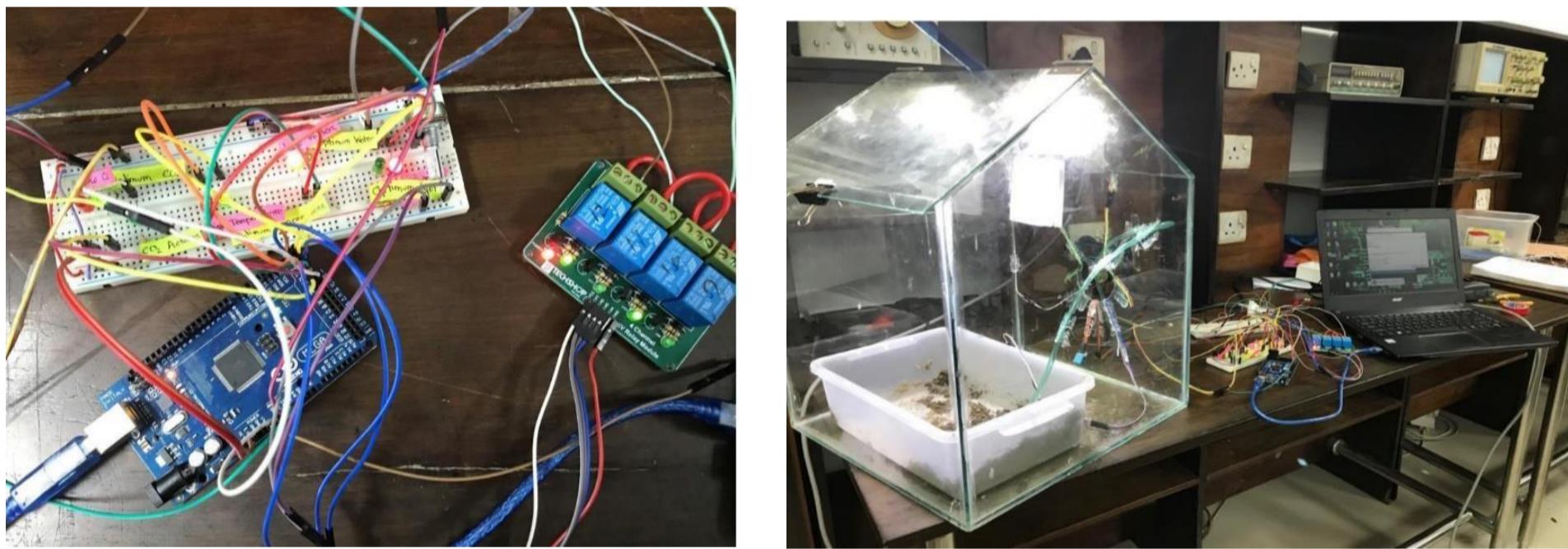


Figure: Interfacing of Hardware with Arduino Mega and Relay.

### Conclusion:

The project is designed with four sensors that operate in a way to keep the optimum environment for plant growth. The sensors send information to the microcontroller (Arduino Mega2560), which in turn drives the whole system. The microcontroller, is interfaced with the sensors. It is the microcontroller that is responsible for the response of the actuators. The actuators turn on as required and are in the off state when not required. The environmental conditions monitored are the factors essential for efficient plant growth.

Thus, the better the control, the better the yield.

# MY GOAL

"Setting a goal is the first step in turning the invisible into the visible"

By Tony Robbins.

My goal is to establish myself as one of the most demanding Web and Micro Service Developer in the next 3 years. My interest in Web development came from experience learning to design and build my own personal Web site. It is an outlet that allowed me to combine computer skills and creativity.

I want to sharpen my ability to express my visual thought, address and resolve various Design concerns. I want to work with more Web developing projects to learn more. I want to go out of my way to go over the top and surprise myself at the end of every projects.

## Contact ME

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Nationality | 