Design and Implementation of Rescue Alert Services for Mob-Justice

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Supervised by
Prof. Bulbul Ahamed

Submitted in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SONARGAON UNIVERSITY (SU)

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Approval

The project titled "**Design and Implementation of Rescue Alert Services for Mob-Justice**" submitted by **Md. Raisul Islam** (CSE2101022069), **Md. Al-Amin** (CSE2001019159), **Md. Monower Hossen Melon** (CSE2101022035), **Md. Raju Ahammad** (CSE2101022001) and to the Department of Computer Science and Engineering, Sonargaon University (SU), has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents.

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DECLARATION

We, hereby, declare that the work presented in this report is the outcome of the investigation performed by us under the supervision of **Bulbul Ahamed,** Professor, Department of Computer Science and Engineering, Sonargaon University, Dhaka, Bangladesh We reaffirm that no part of this project has been or is being submitted elsewhere for the award of any degree or diploma.

Countersigned

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ABSTRACT

In regions like Bangladesh, mob justice incidents and other emergencies significantly threaten public safety. Despite the existence of the 999 emergency calling system, it faces limitations in automatically determining caller locations, often leading to delayed responses. This study focuses on the design and implementation of a "Rescue Alert Services with Mob-Justice Information" framework, integrating the 999 system with advanced features to address such challenges effectively. The proposed solution utilizes Location-Based Services (LBS) to enable real-time reporting of mob justice incidents and other critical cases. The system includes a web-based platform where users can report emergencies by selecting specific incident types, with geolocation and caller details sent automatically to the 999 system and relevant response teams. This integration ensures that rescue or law enforcement units receive precise navigation instructions, improving response efficiency.To reduce false or prank reports, the platform leverages unique user identifiers such as phone numbers and GPS coordinates, encouraging accountability. Additionally, the system offers statistical reporting and analytics to help authorities monitor trends, allocate resources effectively, and improve public safety measures. By combining the capabilities of the 999 system with an enhanced digital platform, this framework aims to streamline emergency response, mitigate mob justice, and ensure faster and more accurate rescue operations.

ACKNOWLEDGMENT

At the very beginning, we would like to express my deepest gratitude to the Almighty Allah for giving us the ability and the strength to finish the task successfully within the schedule time.

We are auspicious that we had the kind association as well as supervision of **Bulbul Ahamed,** Professor & Head, Department of Computer Science and Engineering, Sonargaon University whose hearted and valuable support with best concern and direction acted as necessary recourse to carry out our project.

We would like to convey our special gratitude to **Brig. Gen. (Retd) Prof. Habibur Rahman Kamal, ndc, psc,** Dean, Faculty of Science & Engineering for his kind concern and precious suggestions.

We are also thankful to all our teachers during our whole education, for exposing us to the beauty of learning.

Finally, our deepest gratitude and love to my parents for their support, encouragement, and endless love.

LIST OF ABBREVIATIONS

AI - Artificial Intelligence

API - Application Programming Interface

CPU - Central Processing Unit

CSS - Cascading Style Sheet

DNS - Domain Name System

FTP - File Transfer Protocol

GPS - Global Positioning System

GUI - Graphical User Interface

HTML - Hyper Text Markup Language

HTTP - Hyper Text Transfer Protocol

HTTPS - Hyper Text Transfer Protocol Secure

IoT - Internet of Things

IP - Internet Protocol

JSON - JavaScript Object Notation

KPI - Key Performance Indicator

LBS - Location Based Service

ML - Machine Learning

OS - Operating System

PC - Personal Computer

PHP - Hypertext Preprocessor

RAM - Random Access Memory

ROM- Read Only Memory

SQL - Standard Query Language

TDP - Technical Data Package

TCP - Transmission Control Protocol

UI - User Interface

URL - Uniform Resource Locators

UX - User Experience

WWW - World Wide Web

XAMPP - Operating System Apache MYSQL PHP Perl

XML - Extensible Markup Language

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CHAPTER 1

INTRODUCTION TO RESCUE ALERT SERVICE FOR MOB-JUSTICE

1.1 Introduction

This Mob justice, often referred to as "vigilante justice," is a pressing social issue in many regions, including Bangladesh[1]. It involves a group of individuals taking the law into their own hands, often resulting in severe consequences such as injury, property damage, or even loss of life. Despite the availability of emergency services such as the 999 hotline, challenges such as delays in locating incidents, lack of accurate information, and prank reports hinder timely interventions. Addressing this issue requires a proactive and technologically driven solution to enhance emergency response capabilities and prevent unnecessary harm.

The "Rescue Alert Services for Mob-Justice Information" system aims to address these challenges by integrating modern digital tools with the existing 999 system. This system leverages Location-Based Services (LBS) to provide real-time geolocation data, enabling faster and more accurate dispatch of emergency teams[2]. Users can report incidents through a user-friendly web platform, selecting from predefined emergency types, including mob justice, accidents, or medical emergencies. The system automatically forwards the incident details, including GPS location and user identification, to the appropriate response units.

1.2 Project Objectives

Generally, most of the project objectives is to give facility who is using this project after ready to publish in the market. The purpose of this study to be achieved is to develop the web based and the mobile application related to location-based services for mob-justice and other emergency situation. The objectives are as follows:

- To investigate design considerations in providing location-based services for mob-justice and other emergency cases.
- To design and develop a pull location-based service based on the requirement acquired.
- To design a push location-based service based on the requirement acquired.

1.3 Project Background

Many emergency services around the world now accept 3-word addresses from callers who would otherwise struggle to say exactly where they need help. Rescue services are organizations that ensure public safety by addressing and resolving different emergencies. Some of these agencies exist solely for addressing certain types of emergencies, while others deal with ad hoc emergencies as part of their normal responsibilities.

Many of these agencies engage in community awareness and prevention programs to help the public avoid, detect, and report emergencies effectively. Emergency services are often considered first responders.

1.4 Purpose of Rescue Alert Services for Mob-Justice

Nowadays, The purpose of the "Rescue Alert Services for Mob-Justice" system is to provide a robust and technologically advanced solution to address the challenges posed by mob justice incidents while enhancing emergency response efficiency. Mob justice, often characterized by chaotic and impulsive actions, can result in severe harm to individuals and property. This system seeks to prevent such incidents by enabling rapid intervention through real-time reporting and response mechanisms. By bridging the communication gap between citizens and emergency responders, it offers a reliable platform for reporting mob justice and other emergencies, ensuring swift and accurate rescue operations.

The platform is designed to provide precise geolocation and incident details to response teams, allowing them to reach the correct location promptly and manage the situation effectively. It also incorporates user verification methods, such as GPS tracking and phone number authentication, to ensure accountability and discourage prank or false reports. Additionally, the system supports law enforcement by equipping them with tools and data to systematically address mob justice cases, improving coordination and decision-making.

1.5 Aim and Scope of the Project

This project will identify the optimal role for peer citizens in emergency department. This project is based on the current workflow of 999 call center after receiving emergency calling and channeled the emergency information in connection with the related agencies.

- **Scope of Target Users**: The prototype of research tried to use and implement for police officers, fire fighters.
- **Scope of Project Requirement**: The project requirement will be divided into three categories there are hardware, software, and programming language. In hardware section we need a desktop PC or a laptop. We have used Visual Studio Code, XAMPP & Chrome Browser or Microsoft Edge as software and HTML, CSS, JavaScript, PHP as programming language. And all the equipment’s are easy to get.
- **Scope of System Module**: The distress information such as current location will be collected in the earlier phase is transformed into services for mobile smart phones that used by police officer who are on patrol will be alerted from the provided information and must move right away to the reported location.
- **Scope of Network System**: Location Based Services will be the focus on this research will be apply on geolocation system.

CHAPTER 2

BACKGROUND AND RELATED WORK

2.1 Introduction

Rescue Alert services responder application uses various intents for the location sending purposes. This system has also been built in an intelligent way to send data to the server at the lowest cost possible [3]. It is very useful for management, family monitoring, and can be adapted to the needs of any user. The system meets its objective of being low-cost and is even the cheapest system developed with much functionality of all existing tracking systems investigated Now-a-days trace is increasing tremendously. New roads and routes are created every day. People travel a lot to meet their friends, relatives. People sometimes need to use emergency services like ambulance, police, etc. For such kinds of above problems our application is the best solution. Standalone global positioning system receivers are widely used nowadays to accurately locating one's position. By using standalone GPS receivers, the distance between two locations on earth can also be measured. This project is aimed to design and implement a low-cost Global Positioning System suitable to be used for hiking, climbing, and sailing activities. The function of the GPS is to locate the position of user.

2.2 Languages and Tools

In our proposed project, we have used HTML, CSS, JavaScript and PHP as programming language. As software we have used Visual Studio Code, XAMPP, Microsoft Edge and Google Chrome. The used languages and applications are described below-



Fig.2.1: Font-end and backend languages

2.2.1 HTML

The language used to develop web pages is called **Hyper Text Markup Language** i.e. HTML. HTML is the language interpreted by a browser. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between web pages. A markup language is used to define the text document within the tag which defines the structure of web pages.

This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable. The language uses tags to define what manipulation must be done on the text [4].

2.2.2 CSS

CSS stands for **Cascading Style Sheets**. It is a powerful way to affect the presentation of a document or a collection of documents. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML. CSS helps Web developers create a uniform look across several pages of a Web site. Instead of defining the style of each table and each block of text within a page's HTML, commonly used styles need to be defined only once in a CSS document. Once the style is defined in cascading style sheet, it can be used by any page that references the CSS file.

While CSS is great for creating text styles, it is helpful for formatting other aspects of Web page layout as well. For example, CSS can be used to define the cell padding of table cells, the style, thickness, and color of a table's border, and the padding around images or other objects. CSS gives Web developers more exact control over how Web pages will look than HTML does. This is why most Web pages today incorporate cascading style sheets.

There are three types of CSS. They are Inline CSS, Internal CSS and External CSS.

2.2.3 Java Script

JavaScript is a programming language commonly used in web development. It was originally developed by Netscape to add dynamic and interactive elements to websites. While JavaScript is influenced by Java, the syntax is more like C and is based on ECMAScript, a scripting language developed by Sun Microsystems [5].

JavaScript is a client-side scripting language, which means the source code is processed by the client's web browser rather than on the web server. This means JavaScript functions can run after a webpage has loaded without communicating with the server. The JavaScript code can produce an error message before any information is actually transmitted to the server.

JavaScript allows users to interact with web pages. There are almost no limits to the things you can do with JavaScript on a web page [6].

These are just a few examples:

- Show or hide more information with the click of a button.
- Change the color of a button when the mouse hovers over it.
- Slide through a carousel of images on the homepage.
- Zooming in or zooming out on an image.
- Displaying a timer or count-down on a website.
- Playing audio and video in a web page.
- Displaying animations.

2.2.4 PHP

PHP is an acronym for "PHP: Hypertext Preprocessor". PHP is a widely used, open-source scripting language. PHP scripts are executed on the server.

When a website visitor accesses a PHP page, the web server processes, or "parses," the PHP code, which can output HTML to the webpage. In the example below, the PHP function gets the local time and date from the server and inserts it into the HTML [6].

The popularity of PHP is the logical result of its numerous advantages, all of which make it a powerful and effective development tool. Below is the short list of reasons why PHP is a great choice for your web app, which will be subsequently described in more detail [7]. Some of its advantages are:

- many available specialists.
- a large base of reference and educational materials.
- better loading speed of websites.
- more options for database connectivity.
- a large collection of open source addons.
- inexpensive website hosting.
- great synergy with HTML.
- excellent flexibility and combinability.
- various benefits provided by cloud solutions.

2.2.5 Visual Studio Code

Visual Studio Code is a standalone source code editor that runs on Windows, macOS, and Linux. The top pick for JavaScript and web developers, with extensions to support just about any programming language.

VS Code's popularity lies in the fact it can be used by any developer, in almost any language, on any device. Last year, VS Code gained five million new users because of Microsoft's increased focus on collaboration, remote development, and making Visual Studio Code the home for different kinds of developer personas. The tool now has 14 million monthly active users, Microsoft said [8].

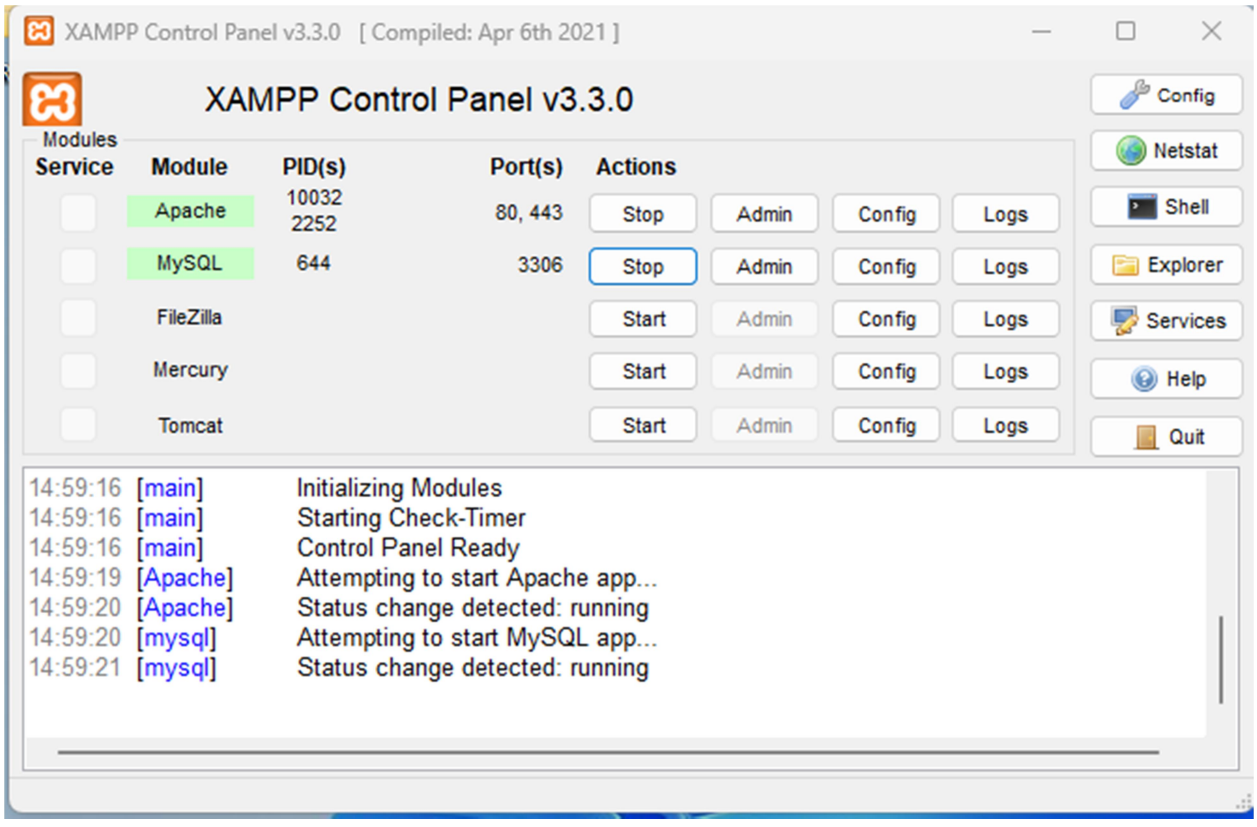
Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js also.

2.2.6 XAMPP

The goal of XAMPP is to build an easy to install distribution for developers to get into the world of Apache. To make it convenient for developers, XAMPP is configured with all features turned on. XAMPP stands for X-operating system, Apache, MySQL, PHP, Perl.

XAMPP is regularly updated to the latest releases of Apache, MariaDB, PHP and Perl. It also comes with several other modules, including OpenSSL, phpMyAdmin, MediaWiki, Joomla, WordPress and more. Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another. XAMPP is offered in both a full and a standard version (Smaller version).

The most obvious characteristic of XAMPP is the ease at which a WAMP webserver stack can be deployed and instantiated. Later, some common packaged applications that could be easily installed were provided by Bitnami. XAMPP also provides support for creating and manipulating databases in MariaDB and SQLite, among others.



CHAPTER 3

REQUIREMENTS ANALYSIS AND SYSTEM SPECIFICATIONS

3.1 Requirements

We are working on web-based project and to complete the project we used some tools and software's. One method for determining the geographic location of a mobile user is with the use of the mobile phone network and the cell ID, which can pinpoint the location of the base transceiver station. Another method is the use of GPS satellites, which is a more accurate method as many smartphones are built with GPS receivers. Short-range positioning beacon location-based services, such as Wi-Fi or Bluetooth location-based services, may also be used to geolocate mobile users using indoor location-based service. The software requirements features are follows -

3.1.1 Data Requirements

Data requirements specify the set of data that is involved in any project. The login credentials for registering the application and the item's details are the most important pieces of information for this project. The program will not be able to complete the transaction without this information.

3.1.2 Functional Requirements

Regardless of the hardware occupied, as move requires that preferably applications be re-authored for soaring formats, institutions commit find it inescapable to heal data sharing and content- delivery techniques to vow the floating platform. Education includes online, transcend and part has a head start education. Traditional ad hoc advancement system fashion includes activities appreciate admission, Personal Contact Programs, Exam for whole course in a university or Institution. In this practice Mobile gave a pink slip blew the lid off a considerable role in the activities by providing a handwriting on the wall of benefits to students, teachers, parents, and Universities itself. The complimentary examines unquestionable having to do with issues devoted by the whole of the skilled implementation of Mobile phones in bodily levels of advancement and provides suggestions to address evident challenges that would throw in one lot within the implementation of Mobile Phones in education. Here boasting is supposing on the education field. Use of Information and Communication Technology (ICT) is the way on which lavish population of USA boot be reached. During this project as a position of empowerment to heirs and assign by the agency of ICT, it was hinge on that it helped in reducing insult of group, corruption with increasing depth of perception among the people.

3.1.3 Performance Requirements

The performance requirements that should be considered while creating any system include response speed, scalability, platform dependencies, and tolerance. When the user interacts with the application, the application or system should be able to reply rapidly. When we wish to expand the application, it should be constructed in such a way that it is scalable enough to accept new features. The software's application from the project's design phase onwards, it should run in all the required software and hardware requirements. In addition, the program's tolerance rate (fault tolerance) should be set higher in the event of network challenges, connectivity issues, and when the application crashes or quits. When the system is up and running, it should be able to provide information to the user about any of those difficulties.

3.2 Testing and Maintainability Requirements

In a test environment, the application should be able to meet all the conceivable good and bad test scenarios. When a user uses an application, it should be created in such a way that it does not have any faults or crashes. When we expand the code or add new functionalities to the existing application, it should be able to extend itself.



Fig.3.1: Website testing diagram

CHAPTER 4

SYSTEM DESIGN

4.1 Introduction

Rescue Alert services responder application uses various intents for the location sending purposes. This system has also been built in an intelligent way to send data to the server at the lowest cost possible. It is very useful for management, family monitoring, and can be adapted to the needs of any user. The system meets its objective of being low-cost and is even the cheapest system developed with much functionality of all existing tracking systems investigated Now-a-days trace is increasing tremendously. New roads and routes are created every day. People travel a lot to meet their friends, relatives. People sometimes need to use emergency services like ambulance, police, etc. For such kinds of above problems our application is the best solution. Standalone global positioning system receivers are widely used nowadays to accurately locating one's position. By using standalone GPS receivers, the distance between two locations on earth can also be measured. This project is aimed to design and implement a low-cost Global Positioning System suitable to be used for hiking, climbing, and sailing activities. The function of the GPS is to locate the position of user.

4.2 System Architecture Design

A web app architecture presents a layout with all the software components (such as databases, applications, and middleware) and how they interact with each other. It defines how the data is delivered through HTTP and ensures that the client-side server and the backend server can understand.

Software architecture of a system describes its major components, their relationships, and how they interact with each other.

It essentially serves as a blueprint. It provides an abstraction to manage the system complexity and establish communication and coordination among components.

The architecture helps define a solution to meet all the technical and operational requirements, with the common goal of optimizing for performance and security.

Designing the architecture involves the intersection of the organization’s needs as well as the needs of the development team. Each decision can have a considerable impact on quality, maintainability, performance, etc.[9]

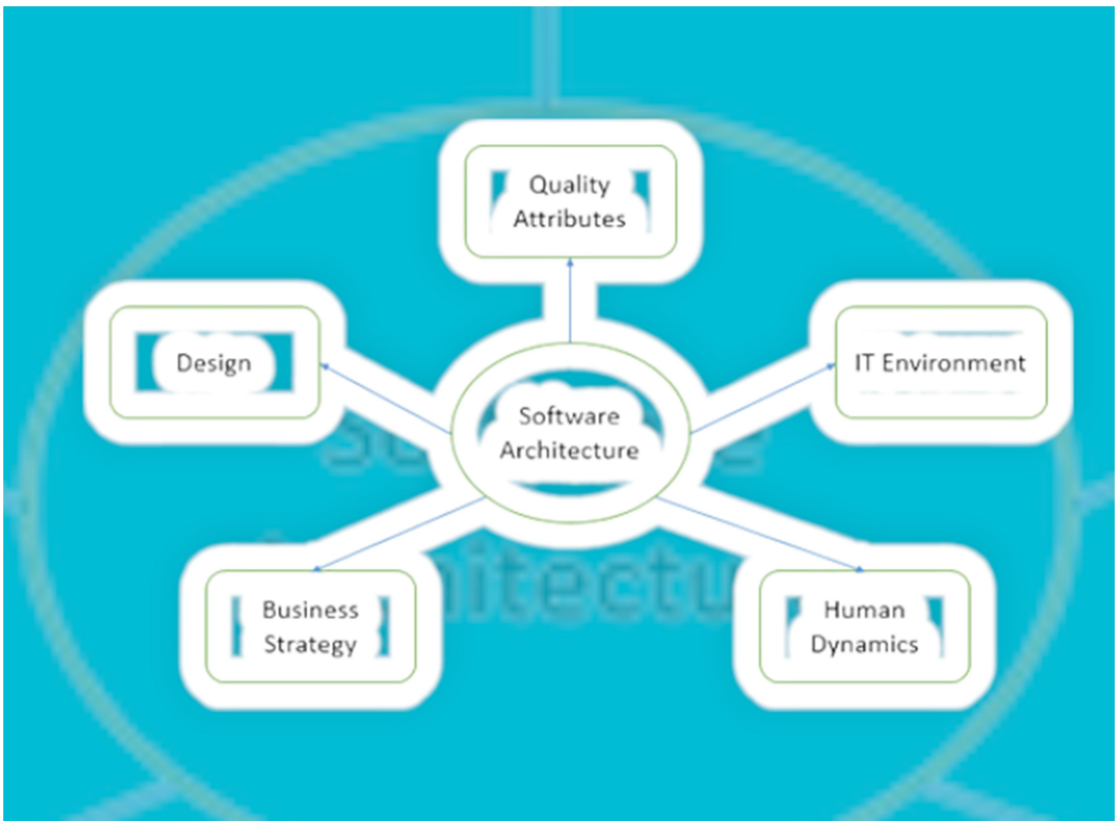


Fig.4.1: Software architecture design

Though software development is an iterative and evolutionary process, we don't always get things perfect at the first go. Still, this can't be an excuse for not doing our homework. It also depends on what stage of the development process we hit an impasse due to the hasty decisions taken during the initial design phases. So, before we even touch the code and get our hands dirty, we must make the underlying architecture right.

4.3 Website Diagram

A Website Structure Diagram is a pictorial sitemap that provides a breakdown of all the pages and navigational paths within the website. Today's websites are more like web systems. Designers decide a site's functionality. People communicate functionalities to developers through site maps, hierarchy diagrams, wireframes, use case diagrams and many other visual tools. For example, after an idea of designing an online group buying site came into mind, the first step is to brainstorm the whole structure. Just like this hierarchy diagram shows below, you need to determine the main features and the framework.

4.4 Flowchart

A flowchart is a picture of the separate steps of a process in sequential order. It is a generic tool that can be adapted for a wide variety of purposes, and can be used to describe various processes, such as a manufacturing process, an administrative or service process, or a project plan.

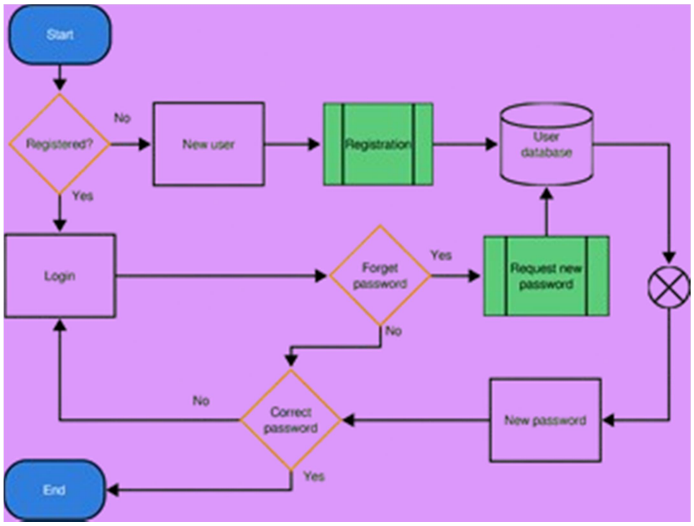
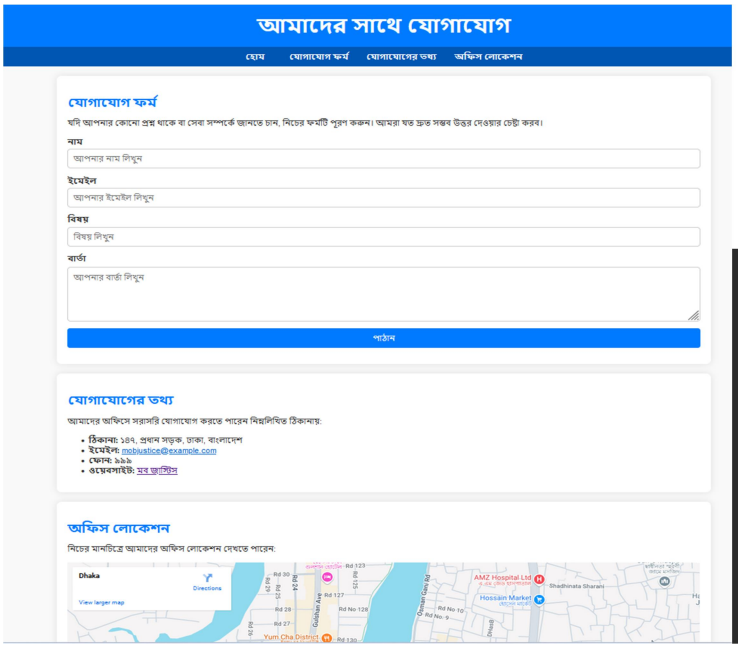


Fig.4.2: Flowchart of login and registration

4.5. User Interface Design

The User Interface diagram is an extended diagram type that provides a set of wire framing toolboxes with a rich palette of user interface elements for Android and Apple devices, as well as for web pages and dialogs. User interface design patterns are how structure and order can get together to make powerful user experiences. Structure and order are also a user's best friends, and along with the fact that old habits die hard (especially on the web), it is essential that designers consider user interfaces very carefully before they set the final design in stone. Products should consist of such good interactions that users don't even notice how they got from point A to point

B. Failing to do so can lead to user interfaces that are difficult or confusing to navigate, requiring the user to spend an unreasonable amount of time decoding the display—and just a few seconds too many can be "unreasonable"—rather than fulfilling their original aims and objectives.



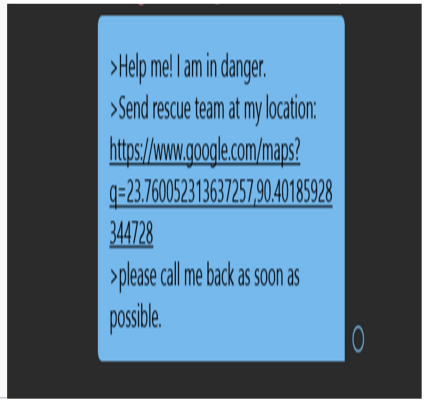




Fig.4.3: Users complain page,Button,Location,Send Message Details

4.6. Admin Interface Design

Administrator interfaces are usually present in the application server. It is used to allow certain users to conduct privileged activities on the web application. A web application requires an administrator interface to access functionality to enabled users.

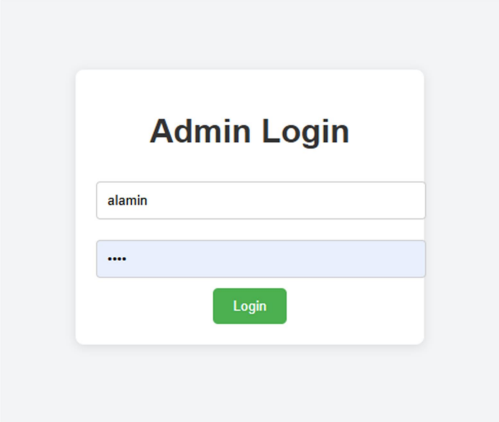


Fig.4.4: Admin login page

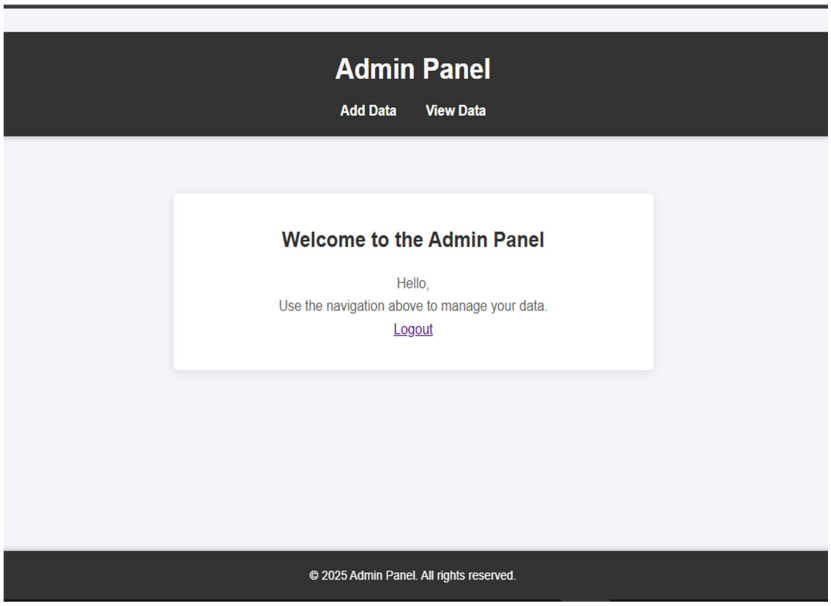
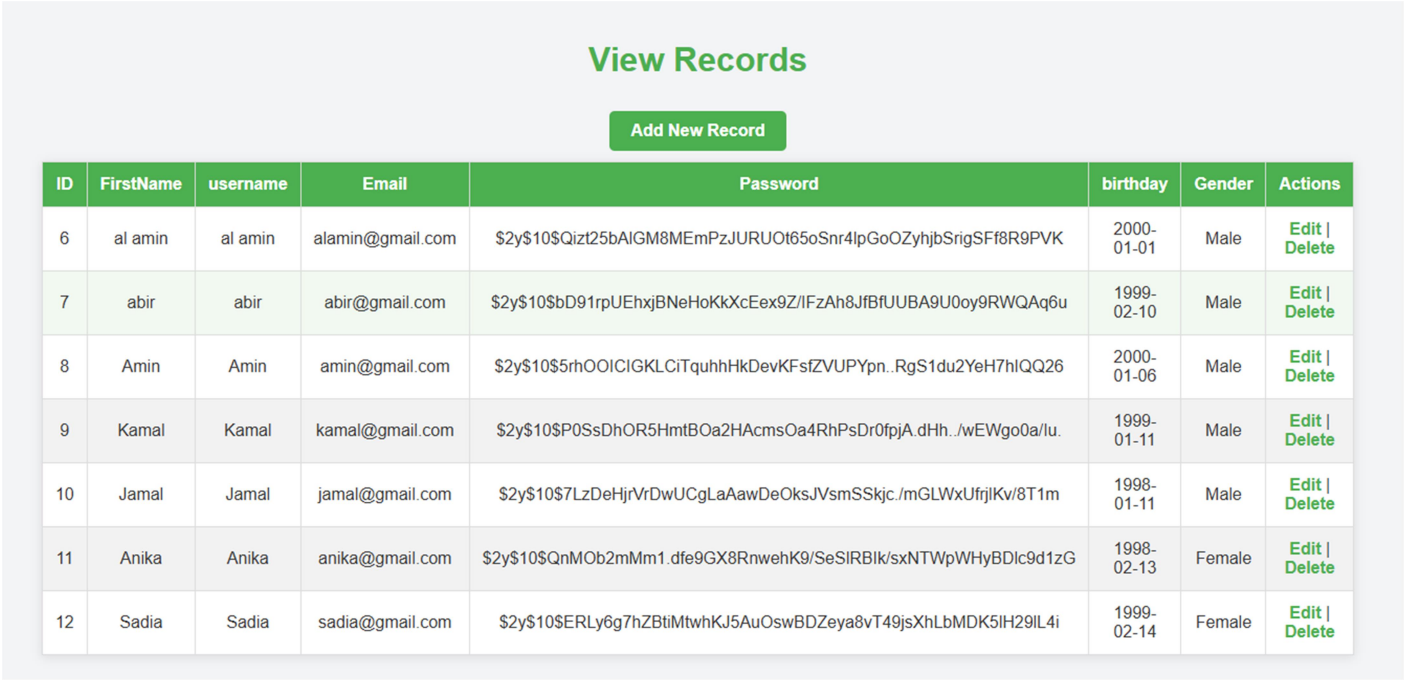


Fig.4.5: Admin panel

4.7. Database:

A database is information that is set up for easy access, management and updating. Computer databases typically store aggregations of data records or files that contain information, such as sales transactions, customer data, financials, and product information [10]. Databases are used for storing, maintaining, and accessing any sort of data. They collect information on people, places, or things. That information is gathered in one place so that it can be observed and analyzed. Databases can be thought of as an organized collection of information. In our project database we used to store users and admins information such as images, contact number, E-mail, password, and location. We also store police stations information (location), doctor's (contact number, location) information and fire service information. We also have a particular section for user's blogs or users experience.



View Records

Add New Record

ID	FirstName	username	Email	Password	birthday	Gender	Actions
6	al amin	al amin	alamin@gmail.com	$2y$10$Qizt25bAlGM8MEmPzJURUOt65oSnr4lpGoOZyhjbSrigSFf8R9PVK	2000-01-01	Male	Edit | Delete
7	abir	abir	abir@gmail.com	$2y$10$bD91rpUEhxjBNeHoKkXcEex9Z/IFzAh8JfBfUUBA9U0oy9RWQAq6u	1999-02-10	Male	Edit | Delete
8	Amin	Amin	amin@gmail.com	$2y$10$5rhOOICIGKLCiTquhhHkDevKFsfZVUPYpn..RgS1du2YeH7hIQQ26	2000-01-06	Male	Edit | Delete
9	Kamal	Kamal	kamal@gmail.com	$2y$10$P0SsDhOR5HmtBOa2HAcmsOa4RhPsDr0fpjA.dHh../wEWgo0a/lu.	1999-01-11	Male	Edit | Delete
10	Jamal	Jamal	jamal@gmail.com	$2y$10$7LzDeHjrVrDwUCgLaAawDeOksJVsmSSkjc./mGLWxUfrjlKv/8T1m	1998-01-11	Male	Edit | Delete
11	Anika	Anika	anika@gmail.com	$2y$10$QnMOb2mMm1.dfe9GX8RnwehK9/SeSlRBIk/sxNTWpWHyBDlc9d1zG	1998-02-13	Female	Edit | Delete
12	Sadia	Sadia	sadia@gmail.com	$2y$10$ERLy6g7hZBtiMtwhKJ5AuOswBDZeya8vT49jsXhLbMDK5lH29lL4i	1999-02-14	Female	Edit | Delete

Fig.4.7: Database tables

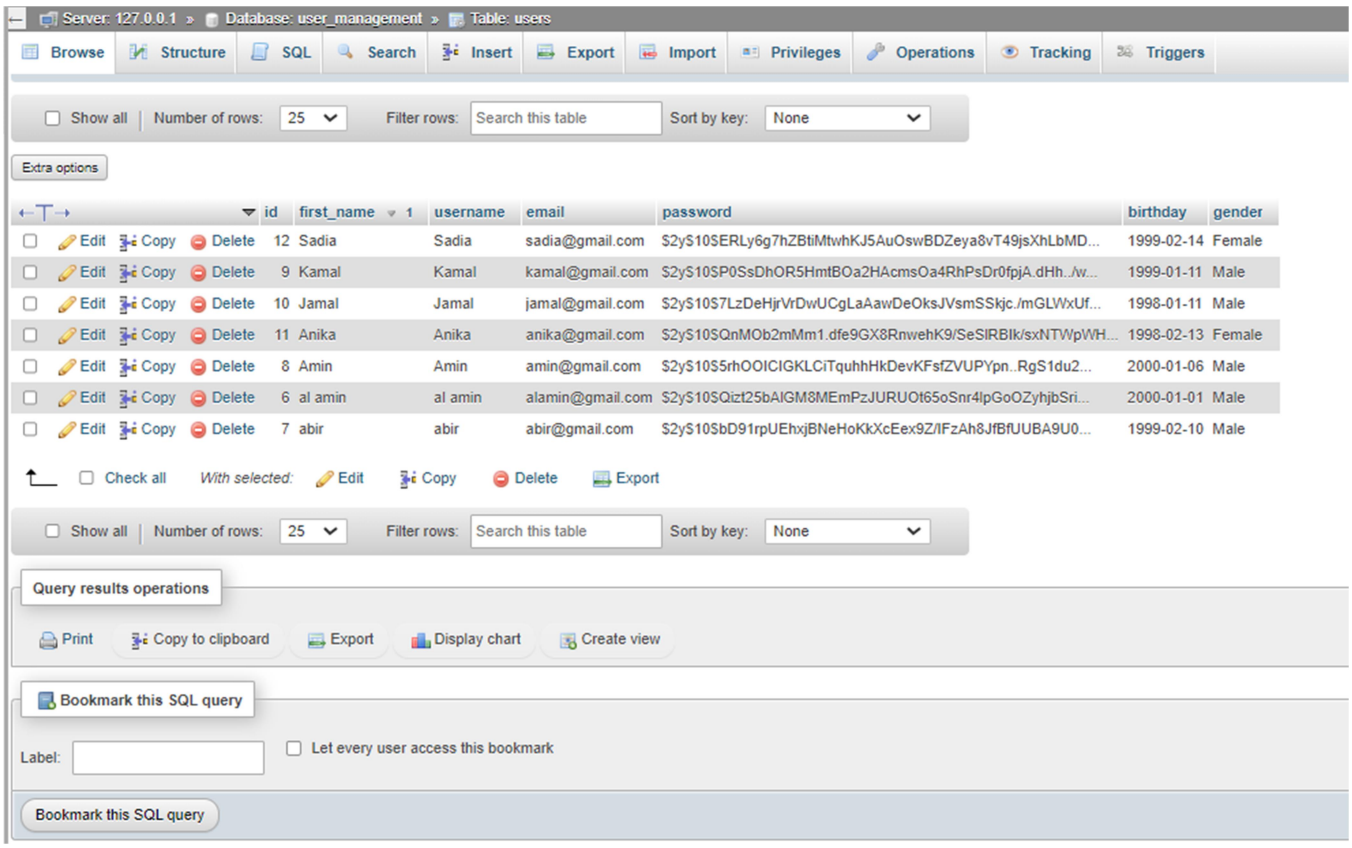


Fig.4.8: Database of user registration

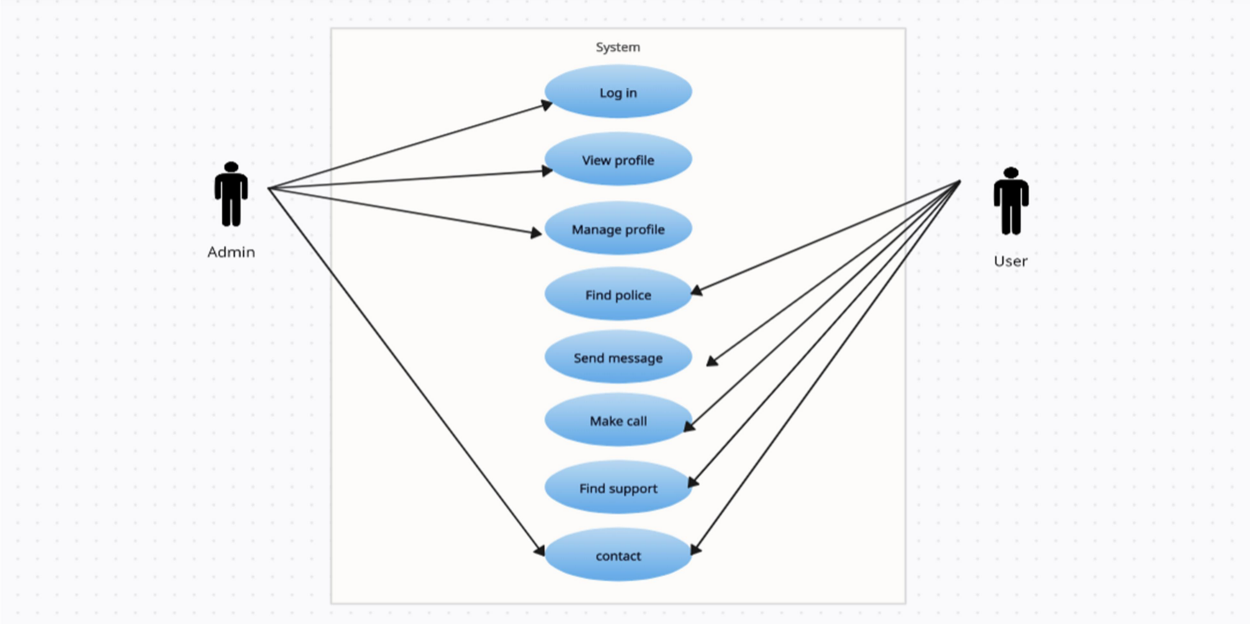


Fig.4.9: Workflow Diagram of

CHAPTER 5

SOFTWARE OUTCOME AND IMPLEMENTATION

Software outcomes refers to the result of the software and software implementation stage involves the transformation of the software technical data package (TDP) into one or more fabricated, integrated, and tested software configuration items that are ready for software acceptance testing. Several factors must be considered to appreciate the software implementation workload:

- The skills and experience of the software implementation personnel to design, code, test, and integrate the structural elements into a complete software product configuration.

- The data manipulation dexterity of the programming language constructs (statements, semantics, evocation, extensibility, etc.) to enable software units to be effectively and efficiently designed and coded.

5.1. Home Page

A home page is the primary web page that a visitor will view when they navigate to a website via a search engine, and it may also function as a landing page to attract visitors. In some cases, the home page is a site directory, particularly when a website has multiple home pages. The home page is in the root directory of a website.

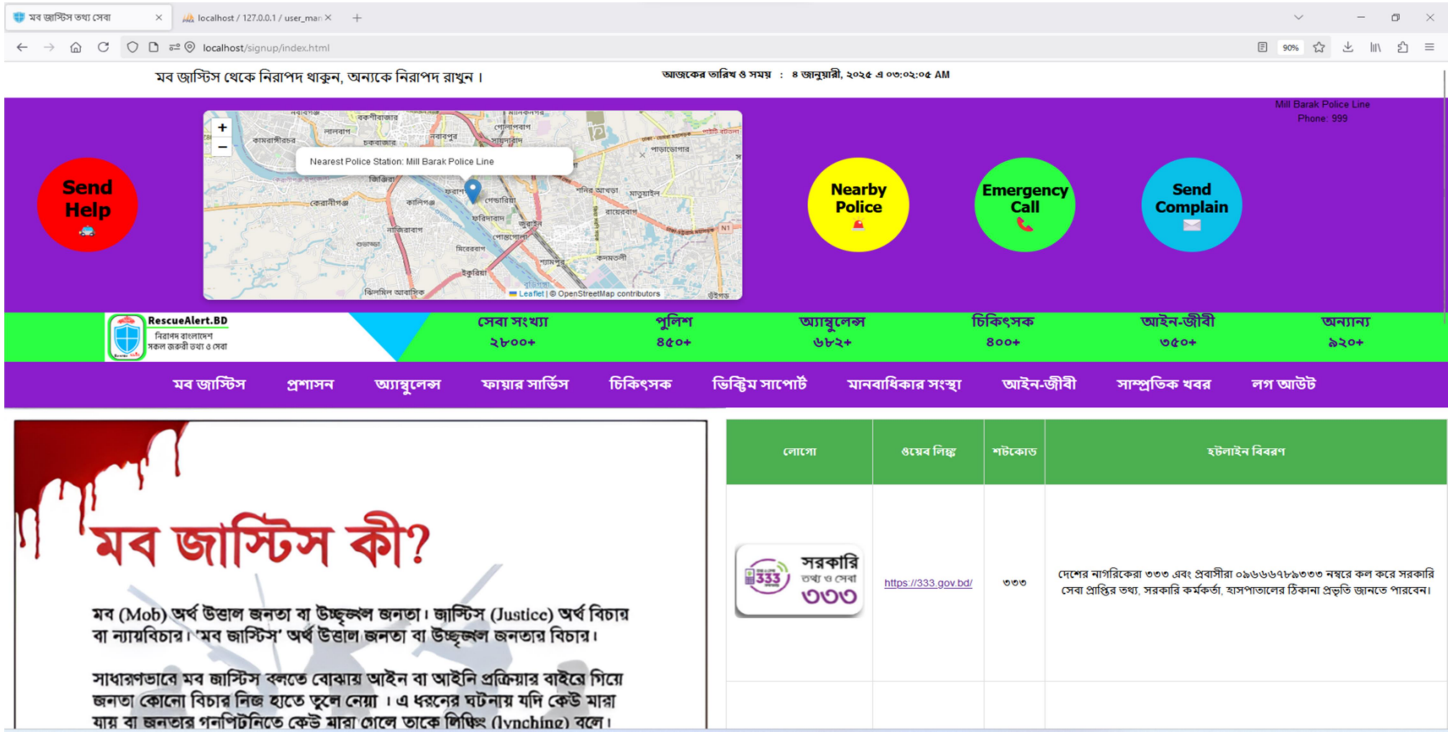


Fig.5.1: Home page (User Log in)

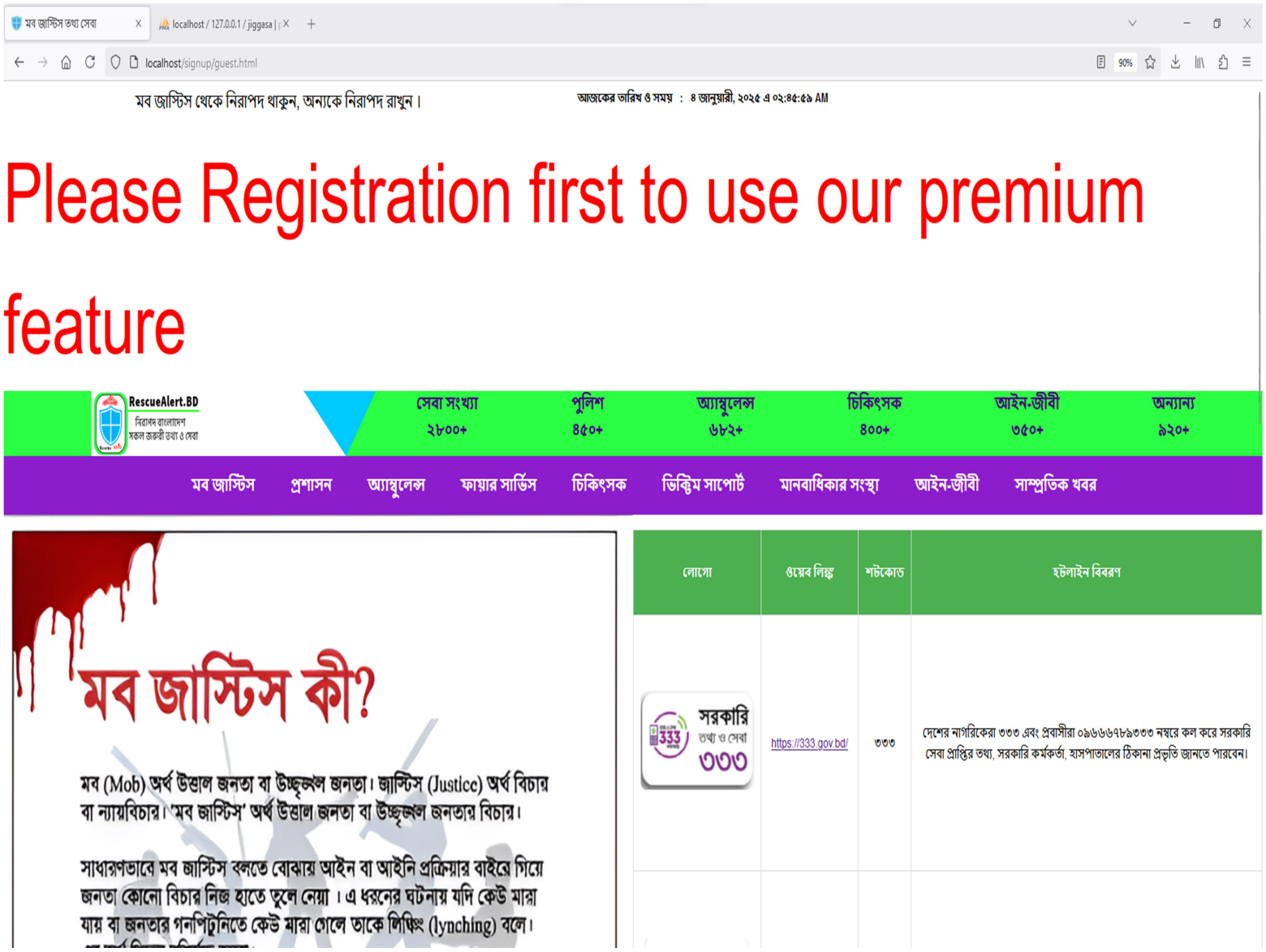


Fig. 5.1: Home page (Guest Log in)

5.2 Sign in

Sign in and log in are synonymous with each other and are used basically for the same purpose. Sign in simply means to validate the user like authenticating the user. It means the user is identified and authenticated to access the website or a program where he/she is already registered. Login works both in web portals and web applications. In simple terms, it means to open a session with an already created account.

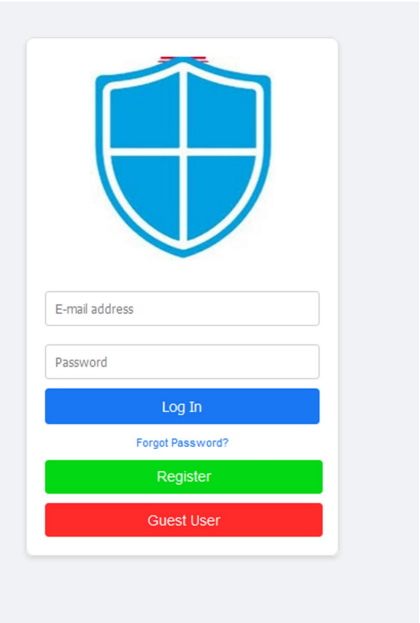


Fig.5.2: Users log in page

In our login page there are actually two input fields that contains phone number (or email) and password. The user must fill up the fields correctly to get access to their profile that they have created before. If the user doesn't fill out any of the files, he/she will get a message to fill out the field. And, if he/she doesn't enter correct email or phone number, he/she will get an error message of incorrect password or phone number.

5.3 Sign Up

Sign up or registration is the process to create a new account in a website. To sign up one must need to put some basic information about him/her. The registration or sign-up process includes the following steps:

- Enter personal information (first name, last name, e-mail, phone number and gender).
- Create a password and confirm the password.
- Click submit to create a new account.

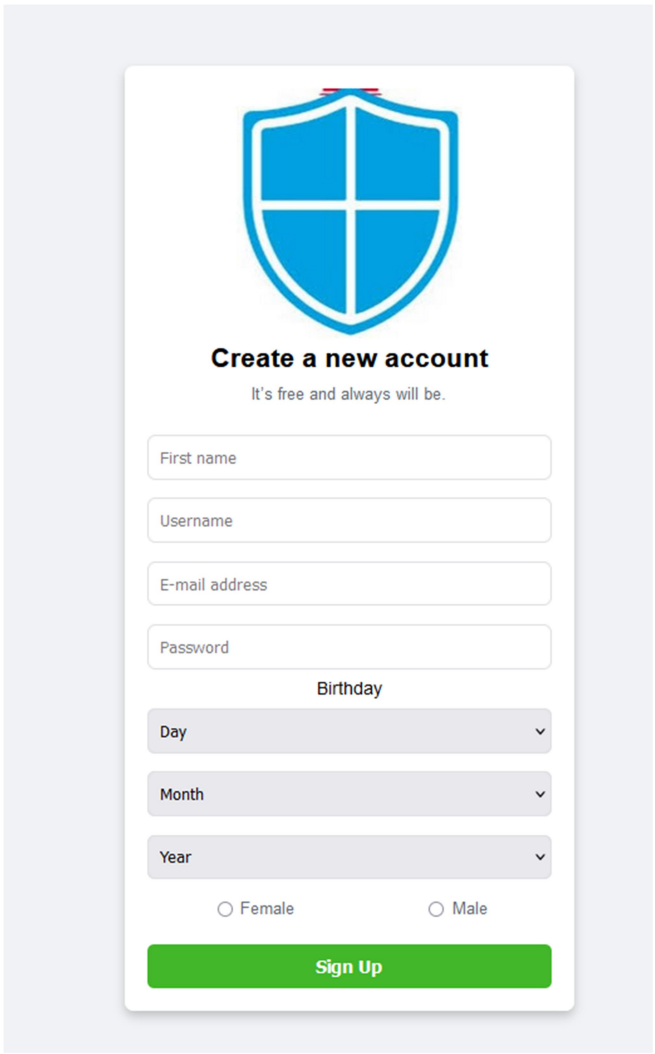


Fig.5.3: Users sign up page

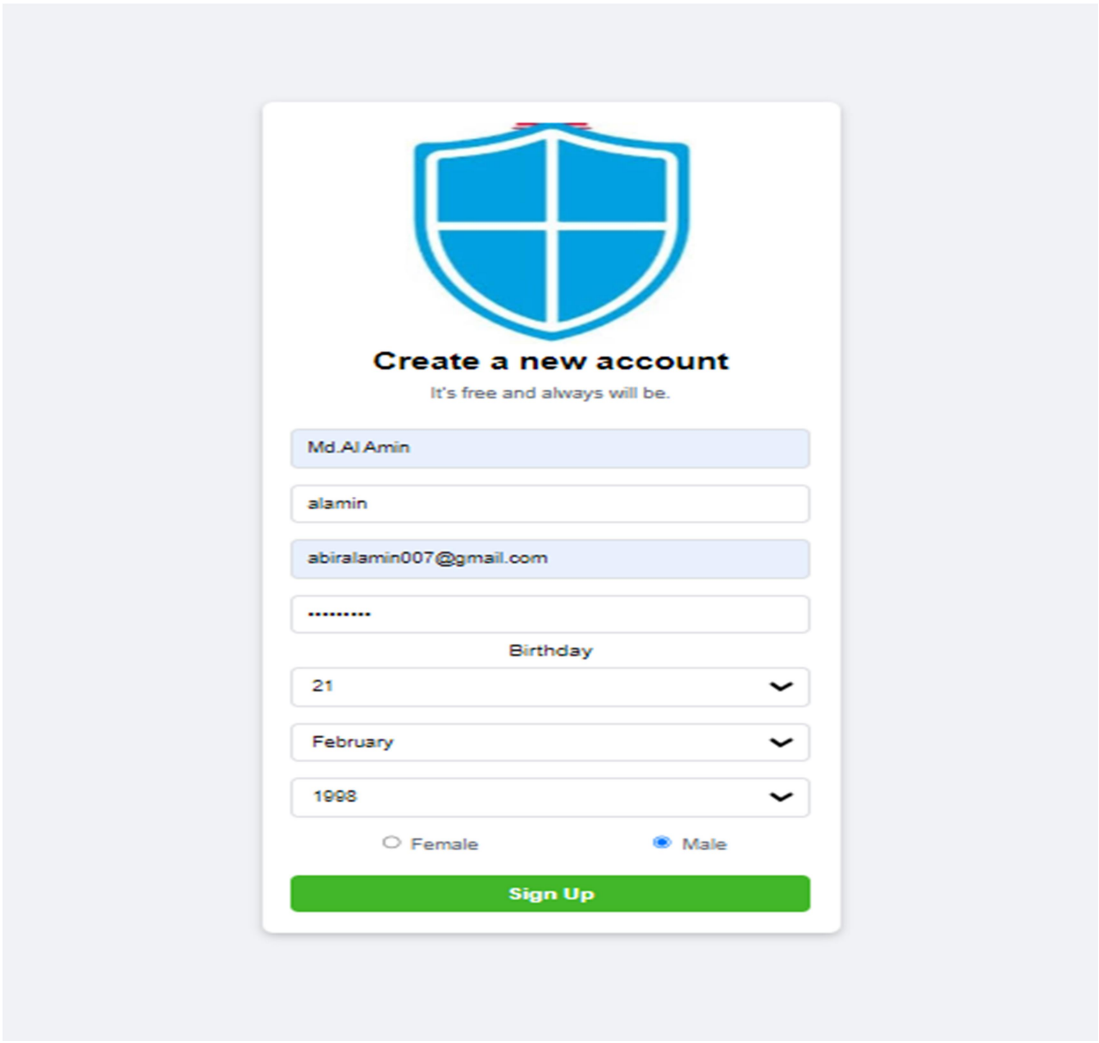


Fig.5.3: Users sign up page (Filled with data)

5.2 Logout

Logging out means to end access to the website. When a used finished his work he/she can logout from the website.

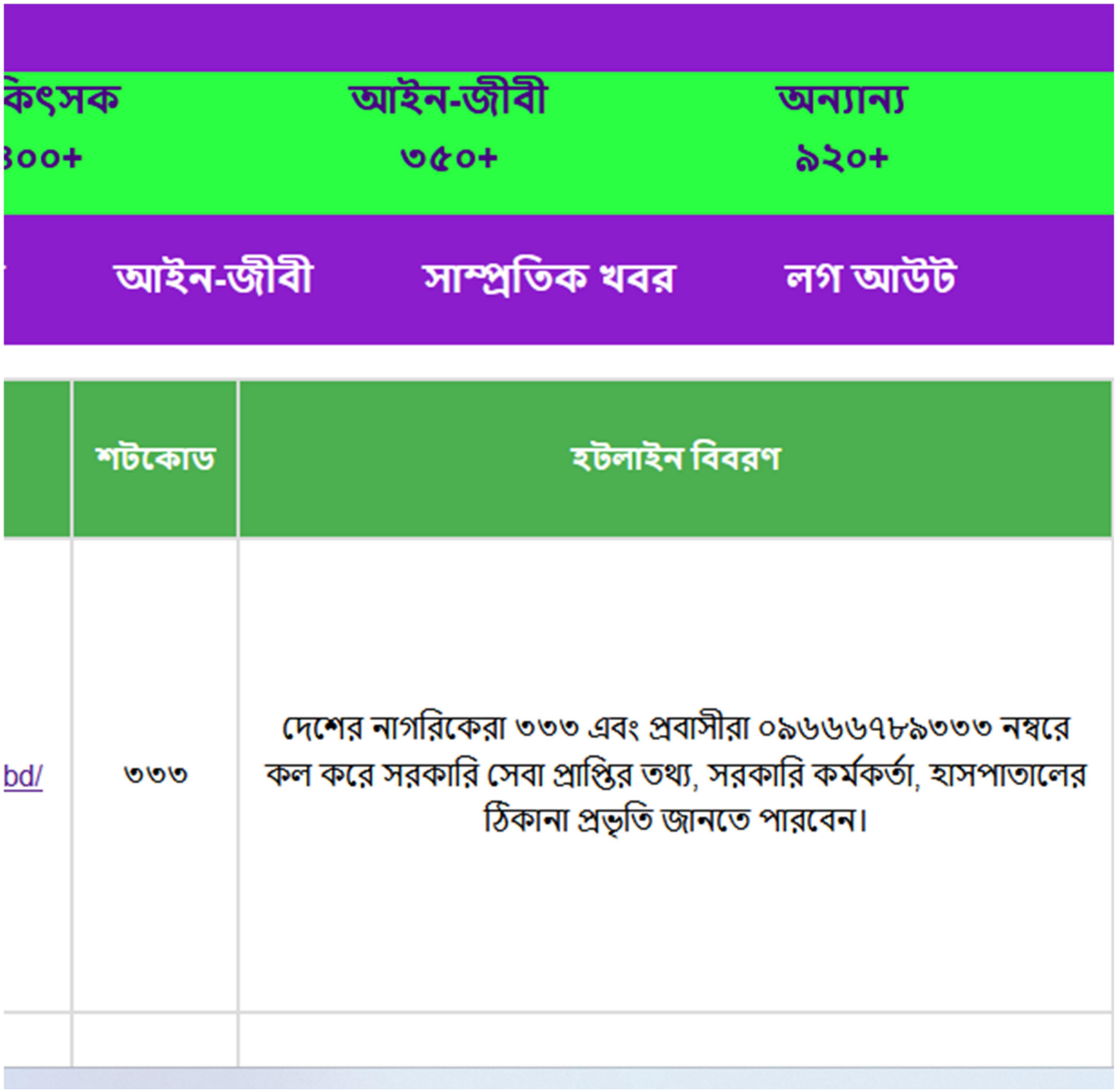


Fig.5.4: Logout Button

CHAPTER 6

Conclusion and Future Works

6.1 Conclusion

With our proposed website we aim to help people in case of mob-justice and help people find required information in a newer surrounding. Thus, we have concluded the basic process of location tracking. The proposed product is easy to use, low-cost and does not need any special training. Our scheme would help to save the time of people and would help the people do location tracking efficiently. Few of the advantages of the system make it more robust. This application can help user to find hospitals, school, malls, cafe, or any other facility of interest indicated by user within certain range. Just like a GPS device its location will also be updated as soon as user changes his/her position. This is a normal workflow at the emergency help service every day. Crimes are solved based on the information channeled to the agencies and how fast the information can be delivered to the agencies targeted. A police officer which is on patrol should be alert to the information provided by the call center and must move right on getting the target. The existence of web services is considered as a part of important element for rendering the information for this mobile application prototype, Emergency Finder. The information will always be updated based on the information feeds from the web-based system at the call center site and are retrievable according to the user location based. In this paper, we have proposed the usage of Pull and Push Location Based Service as a basis for the architecture of providing emergency Location Based Help Service.

6.2 Future Works

Rescue Alert Service is a service that works by taking GPS location. It helps the officers to get the location more accurately and the way of reaching the spot. Nowadays, day-to-day human activities have been closely tied with the use of mobile devices and gadgets, most equipped with GPS receivers and cameras, and are continuously improving in terms of features. With this, the demand for information arose through GPS, which aim to give users relevant, and augmented reality applications that combine images from the real-world to virtual images in three-dimensions. These services form part of the core requirement of Smart Cities, as localities around the world aim to establish seamless integration of technology to the daily life of its citizens.

As we can’t fulfill all the modern technique, those are interested to work like our project are suggested to make mobile applications and further work with admin interface and mapping system.

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APPENDIX

index.html

Index.html

Index.html > html > body > div#gd.footer-links > div > a

```
<!DOCTYPE html>
<html lang="bn">
<head>
    <link rel="icon" href="142.jpg" type="image/icon type">
    <link rel="stylesheet" href="https://unpkg.com/leaflet/dist/leaflet.css" />
    <link rel="stylesheet" href="https://unpkg.com/leaflet@1.9.4/dist/leaflet.css" />
    <script src="https://unpkg.com/leaflet@1.9.4/dist/leaflet.js"></script>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="বাংলাদেশ জাতীয় তথ্য বাতায়ন - সকল তথ্য ও সেবা এক ঠিকানায়">
    <title>মব জাস্টিস তথ্য সেবা</title>
    <link rel="stylesheet" href="styles.css">
    <style>
#map {
    height: 300px;
    width: 90%;
    max-width: 800px;
    margin: 20px auto;
    border: 2px solid #ddd;
    border-radius: 10px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
}
 button, .message-btn, .call-btn {
    font-size: 25px;
    font-weight: bold;
    cursor: pointer;

    color: rgb(0, 0, 0);
    border: none;
    border-radius: 60%;
    width: 150px;
    height: 150px;
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    transition: background-color 0.3s;
    margin: auto auto;
}
button:hover, .message-btn:hover, .call-btn:hover {
    background-color: darkred;
}
.message-btn {
    background-color: rgb(10, 192, 233);
    font-size: 25px;
    font-weight: bold;
}
.message-btn:hover {
    background-color: rgb(7, 108, 131);

}
.call-btn {
    background-color: #2bff42;
    font-size: 25px;
    font-weight: bold;
}
```

```
.call-btn:hover {
    background-color: darkgreen;
}
.icon1 {
    font-size: 24px;
    line-height: 1;
}
.label1 {
    font-size: 10px;
    line-height: 1.2;
    margin-top: 2px;
}
.loading1 {
    margin-top: 20px;
    display: none;
}
#policeBtn {
    background-color: yellow;
}
#policeBtn:hover {
    background-color: darkgoldenrod;
}
#alertBtn1 {
        background-color: red;
}
#alertBtn1:hover {
     background-color: darkred;
}
        </style>
</head>
<body>
    <header>
     <div>
          <div class="header-top container">
           <p style="font-size: 20px;padding: 10px;">মব জাস্টিস থেকে নিরাপদ থাকুন,
              অন্যকে নিরাপদ রাখুন । </p>
            <div>
               <p style="font-weight: bolder;padding: 10px;">আজকের তারিখ ও সময়   :   <span id="current-datetime"></span></p>
            </div>
          </div>
     </div>
    </header>
    <article class="ag">
        <div class="container1">
            <button id="alertBtn1" style="font-size: 23px;">
                <span class="label1" style="font-size: 30px;">Send Help</span>
                <span class="icon1">🚨</span>
            </button>
            <p id="statusText1" style="display: none;">Fetching your location...</p>
            <script>
                function sendEmergencySMS(lat1, lng1) {
                    const message1 = `Emergency! Location: https://www.google.com/maps?q=${lat1},${lng1}`;
                    const defaultPhone1 = "+8801632860679";
```

```
<article class="ag">
    <div class="container1">
        <button id="alertBtn1" style="font-size: 23px;">
            <span class="label1" style="font-size: 30px;">Send Help</span>
            <span class="icon1">🚨</span>
        </button>
        <p id="statusText1" style="display: none;">Fetching your location...</p>
        <script>
            function sendEmergencySMS(lat1, lng1) {
                const message1 = `Emergency! Location: https://www.google.com/maps?q=${lat1},${lng1}`;
                const defaultPhone1 = "+8801632860679";
                const smsLink1 = `sms:${defaultPhone1}?body=${encodeURIComponent(message1)}`;
                window.location.href = smsLink1;
            }
            function locateUserAndNotify() {
                const statusText = document.getElementById("statusText1");
                statusText.style.display = "block";
                if (navigator.geolocation) {
                    navigator.geolocation.getCurrentPosition(
                        function (position) {
                            const lat1 = position.coords.latitude;
                            const lng1 = position.coords.longitude;
                            statusText.style.display = "none"; // Hide status message
                            sendEmergencySMS(lat1, lng1);
                        },
                        function (error) {
                            // Handle errors appropriately
                            console.error("Geolocation error:", error);
                            alert("Location access denied or unavailable.");
                            statusText.style.display = "none"; // Hide status message
                        }
                    );
                } else {
                    alert("Geolocation is not supported by this browser.");
                    statusText.style.display = "none";
                }
            }
            document.getElementById("alertBtn1").addEventListener("click", locateUserAndNotify);
        </script>
            <div id="map"></div>
            <button id="policeBtn" style="font-size: 23px;">Nearby Police
               <span class="icon1">🚨</span>
            </button>
            <button class="call-btn" id="callBtn" >
               <span class="label1" style="font-size: 23px;">Emergency Call</span>
               <span class="icon1">📞</span>
            </button>
            <button class="message-btn" id="messageBtn" style="font-size: 23px;">Send Complain
               <span class="icon1">✉️</span>
            </button>
            <p class="loading" id="loadingText"></p>
            <div id="info">
                <h3><span class="icon1"></span></h3>
```


<h3></h3>

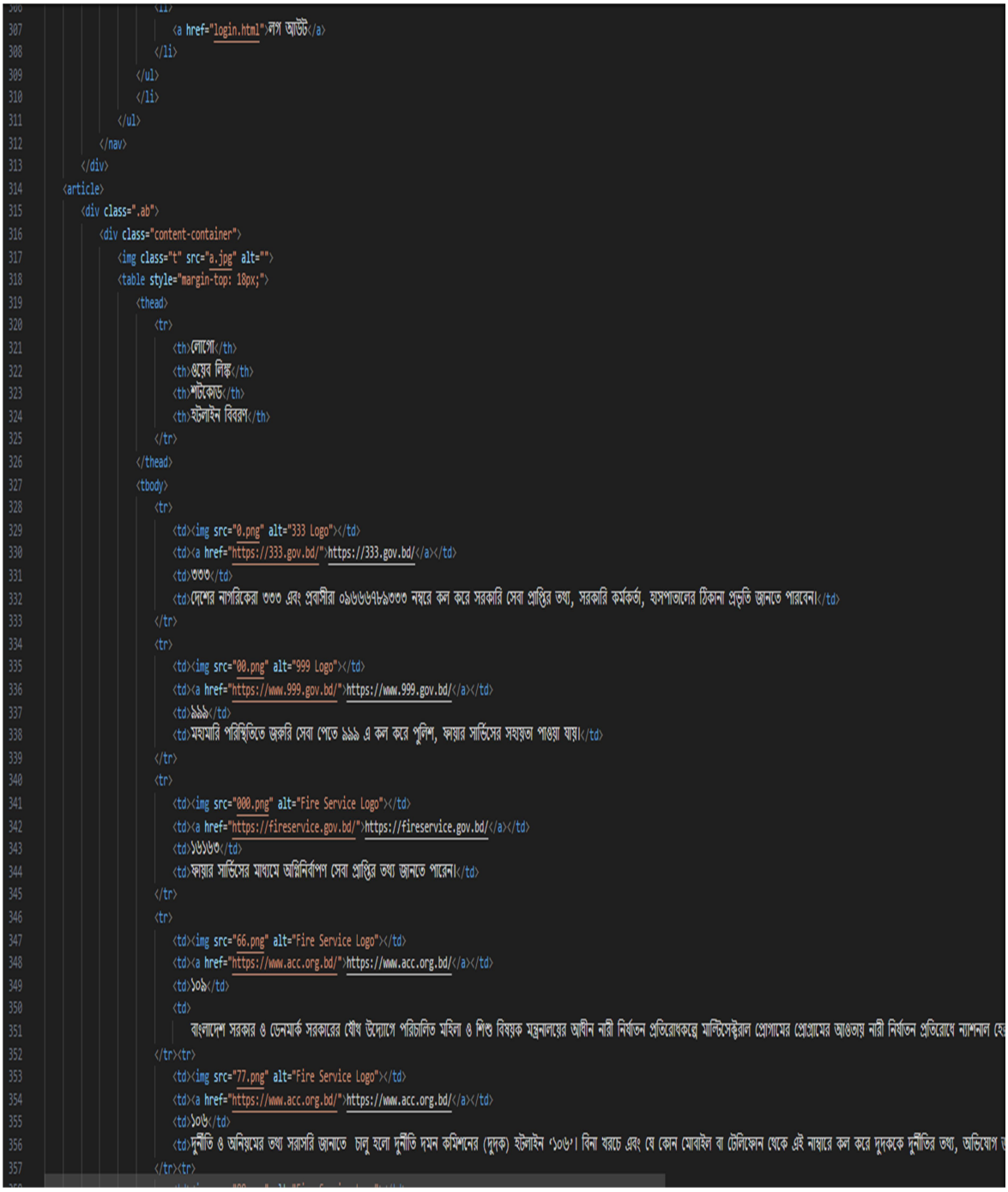
<script>
document.addEventListener("DOMContentLoaded", function () {
let map;
function initializeMap(lat, lng) {
if (!map) {
map = L.map('map').setView([lat, lng], 13);
L.tileLayer('https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png', {
attribution: '© OpenStreetMap contributors'
}).addTo(map);
} else {
map.setView([lat, lng], 13);
}
L.marker([lat, lng]).addTo(map)
.bindPopup('You are here!')
.openPopup();
}
function findNearestPoliceStation(lat, lng) {
const overpassUrl = `https://overpass-api.de/api/interpreter?data=[out:json];node[amenity=police](around:5000,${lat},${lng});out;`;
fetch(overpassUrl)
.then(response => response.json())
.then(data => {
if (data.elements && data.elements.length > 0) {
const station = data.elements[0];
const policeLat = station.lat;
const policeLng = station.lon;
const policeName = station.tags.name || "Unknown Police Station";
const policePhone = station.tags.phone || "999";
document.getElementById("stationName").innerText = policeName;
document.getElementById("stationPhone").innerText = `Phone: ${policePhone}`;
document.getElementById("info").style.display = "block";
L.marker([policeLat, policeLng]).addTo(map)
.bindPopup(`Nearest Police Station: ${policeName}`)
.openPopup();
map.setView([policeLat, policeLng], 13);
} else {
alert("No police stations found nearby.");
}
document.getElementById("loadingText").style.display = "none";
})
.catch(error => {
console.error('Error fetching police stations:', error);
alert("Failed to retrieve police stations.");
document.getElementById("loadingText").style.display = "none";
});
}
function showPoliceStation() {
document.getElementById("loadingText").style.display = "block";

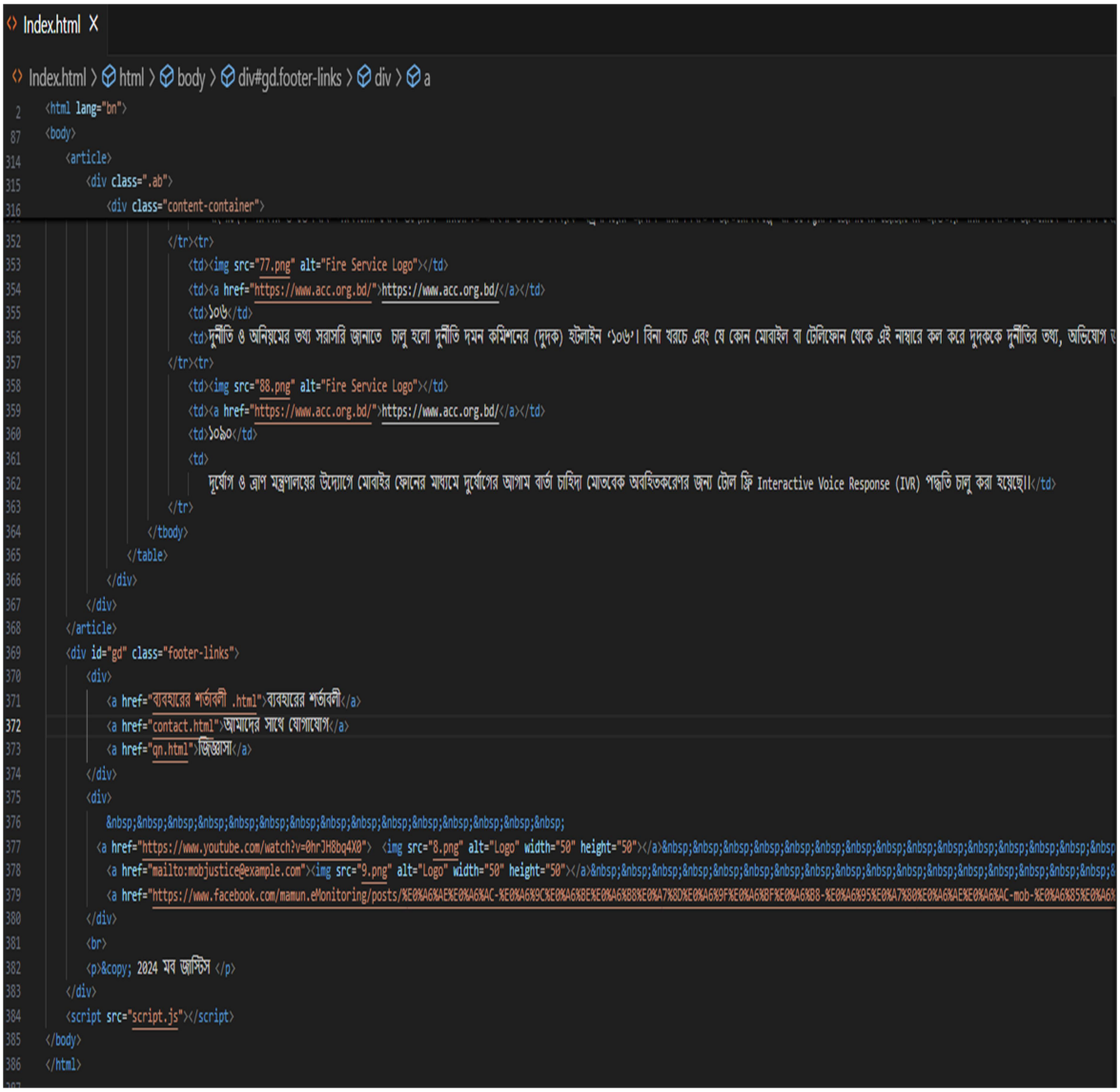


```
                if (navigator.geolocation) {
                    navigator.geolocation.getCurrentPosition(function (position) {
                        const lat = position.coords.latitude;
                        const lng = position.coords.longitude;
                        initializeMap(lat, lng);
                        findNearestPoliceStation(lat, lng);
                    }, function (error) {
                        console.error("Geolocation error:", error);
                        alert("Failed to fetch location. Ensure location services are enabled.");
                        document.getElementById("loadingText").style.display = "none";
                    });
                } else {
                    alert("Geolocation is not supported by this browser.");
                    document.getElementById("loadingText").style.display = "none";
                }
            }
            function sendSMS(lat, lng) {
                const phoneNumber = document.getElementById("stationPhone").innerText.split(": ")[1];
                const message = `Help me! Here is my location: https://www.google.com/maps?q=${lat},${lng}`;
                const smsLink = `sms:${phoneNumber}?body=${encodeURIComponent(message)}`;
                window.location.href = smsLink;
            }
            function makeCall() {
                const phoneNumber = document.getElementById("stationPhone").innerText.split(": ")[1];
                window.location.href = `tel:${phoneNumber}`;
            }
            document.getElementById("policeBtn").addEventListener("click", showPoliceStation);
            document.getElementById("messageBtn").addEventListener("click", function () {
                const lat = map.getCenter().lat;
                const lng = map.getCenter().lng;
                sendSMS(lat, lng);
            });
            document.getElementById("callBtn").addEventListener("click", makeCall);
        });
    </script>
    </div>
</article>
<section class="stats">
    <div class="container1">
        <div>
            <img class="img1" src="unnamed2.png" alt="" style="width: 100%;">
        </div> <br>
        <div class="stat-item">সেবা সংখ্যা<span></span>২৮০০+</div>
        <div class="stat-item">পুলিশ<span></span>৪৫০+</div>
        <div class="stat-item">অ্যাম্বুলেন্স<span></span>৬৮২+</div>
        <div class="stat-item">চিকিৎসক<span></span>৪০০+</div>
        <div class="stat-item">আইন-জীবী<span></span>৩৫০+</div>
        <div class="stat-item">অন্যান্য<span></span>৯২০+</div>
    </div>
</section>
    <div class="ah">
        <nav class="main-nav">
```



```
<ul>
    <ul class="menu">
        <li>
            <a href="#">মব জাস্টিস   </a>
            <ul class="dropdown">
                <li><a href="mob.html">মব জাস্টিস কি?</a></li>
                <li><a href="mob3.html">মব জাস্টিসে করণীয়</a></li>
            </ul>
        </li>
        <li><a href="#">প্রশাসন   </a>
        <ul class="dropdown">
            <li><a href="cc.pdf">পুলিশ</a></li>
            <li><a href="rab.html">র‍্যাব</a></li>
            <li><a href="army.html">সেনাবাহিনী</a></li>
        </ul>
    </li>
        <li>
            <a href="#">অ্যাম্বুলেন্স   </a>
            <ul class="dropdown">
                <li><a href="https://24ambulance.com/dhaka-ambulance-service-bangla/">এ্যাম্বুলেন্স</a></li>
                <li><a href="bb.png">ব্লাড ব্যাংক</a></li>
                <li><a href="red.html">রেড ক্রিসেন্ট সোসাইটি</a></li>
            </ul>
        </li>
        <li><a href="#">ফায়ার সার্ভিস   </a>
            <ul class="dropdown">
                <li><a href="ফায়ার সার্ভিস.html">ফায়ার সার্ভিস</a></li>
            </ul>
        </li>
        <li>
            <a href="#">চিকিৎসক   </a>
            <ul class="dropdown">
                <li><a href="#"></a>
                    <ul class="dropdown">
                        <li><a href="hospital.pdf">হাসপাতাল</a></li>
                        <li><a href="হাসপাতাল.html">ডায়াগনস্টিক</a></li>
                    </ul>
                </li>
            </ul>
        </li>
        <li><a href="https://dmpwsid.gov.bd/bn/view/event_details/11">ভিক্টিম সাপোর্ট   </a>
        </li>
        <li><a href="https://nhrc.org.bd/">মানবাধিকার সংস্থা   </a>
        </li>
        <li><a href="http://solicitor.lawjusticediv.gov.bd/?q=en/node/25">আইন-জীবী   </a>
        </li>
        <li><a href="https://www.prothomalo.com/topic/%E0%A6%AE%E0%A6%AC-%E0%A6%9C%E0%A6%BE%E0%A6%B8%E0%A7%8D%E0%A6%9F%E0%A6%BF%E0%A6%B8">সাম্প্রতিক খবর   </a>
        </li>
        <li>
            <a href="user.html">ইউজার</a>
        </li>
        <li>
```


লগ আউট
লোগো
ওয়েব লিঙ্ক
শর্টকোড
হটলাইন বিবরণ
দেশের নাগরিকেরা ৩৩৩ এবং প্রবাসীরা ০৯৬৬৬৭৮৯৩৩৩ নম্বরে কল করে সরকারি সেবা প্রাপ্তির তথ্য, সরকারি কর্মকর্তা, হাসপাতালের ঠিকানা প্রভৃতি জানতে পারবেন।
জরুরি সেবা পেতে ৯৯৯ এ কল করে পুলিশ, ফায়ার সার্ভিসের সহায়তা পাওয়া যায়।
ফায়ার সার্ভিসের মাধ্যমে অগ্নিনির্বাপণ সেবা প্রাপ্তির তথ্য জানতে পারেন।
দুর্নীতি ও অনিয়মের তথ্য সরাসরি জানাতে চালু হলো দুর্নীতি দমন কমিশনের (দুদক) হটলাইন '১০৬'। বিনা খরচে এবং যে কোন মোবাইল বা টেলিফোন থেকে এই নাম্বারে কল করে দুদককে দুর্নীতির তথ্য, অভিযোগ


Index.html X
Index.html > html > body > div#gd.footer-links > div > a
<html lang="bn">
<body>
<article>

</tr><tr>
<td><img src="77.png" alt="Fire Service Logo"></td>
<td>https://www.acc.org.bd/</td>
<td>১০৬</td>
<td>দুর্নীতি ও অনিয়মের তথ্য সরাসরি জানাতে চালু হলো দুর্নীতি দমন কমিশনের (দুদক) হটলাইন '১০৬'। বিনা খরচে এবং যে কোন মোবাইল বা টেলিফোন থেকে এই নাম্বারে কল করে দুদককে দুর্নীতির তথ্য, অভিযোগ
</tr><tr>
<td><img src="88.png" alt="Fire Service Logo"></td>
<td>https://www.acc.org.bd/</td>
<td>১০৯০</td>
<td>
দূর্যোগ ও ত্রাণ মন্ত্রণালয়ের উদ্যোগে মোবাইল ফোনের মাধ্যমে দূর্যোগের আগাম বার্তা চাহিদা মোতবেক অবহিতকরণের জন্য টোল ফ্রি Interactive Voice Response (IVR) পদ্ধতি চালু করা হয়েছে।।</td>
</tr>
</tbody>
</table>

</article>

ব্যবহারের শর্তাবলী
আমাদের সাথে যোগাযোগ
জিজ্ঞাসা

 <img src="8.png" alt="Logo" width="50" height="50">
<img src="9.png" alt="Logo" width="50" height="50">
<a href="https://www.facebook.com/mamun.eMonitoring/posts/%E0%A6%AE%E0%A6%AC-%E0%A6%9C%E0%A6%BE%E0%A6%B8%E0%A7%8D%E0%A6%9F%E0%A6%BF%E0%A6%B8-%E0%A6%95%E0%A7%80%E0%A6%AE%E0%A6%AC-mob-%E0%A6%85%E0%A6%

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<script src="script.js"></script>
</body>
</html>

Login.html

login.html

```
<html lang="en">
<head>
    <style>
        .create-account {
        }
        .create-account:hover {
            background-color: #1f8a09;
        }
        .guest-user {
            background-color: rgb(255, 42, 42);
        }
        .guest-user:hover {
            background-color: #cc0000;
        }
    </style>
</head>
<body>
    <div class="container">
        <img src="ml.jpg" alt="Logo">
    <form action="login.php" method="POST">
            <input type="text" name="email" placeholder="E-mail address" required>
            <input type="password" name="password" placeholder="Password" required>
            <button type="submit">Log In</button>
        </form>
        <div class="forgot-password">
            <a href="forgot_password1.html">Forgot Password?</a>
        </div>


        <a href="register.html" class="create-account">Register</a>
        <a href="guest.html" class="guest-user">Guest User</a>
    </div>
</body>
</html>
```

Login.php

login.html | login.php

login.php

```php
<?php
session_start();
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $conn = new mysqli('localhost', 'root', '', 'user_management');

    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }

    $email = $_POST['email'];
    $password = $_POST['password'];

    $sql = "SELECT * FROM users WHERE email = '$email'";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        $user = $result->fetch_assoc();

        // Verify the password
        if (password_verify($password, $user['password'])) {
            $_SESSION['user_id'] = $user['id'];
            echo "Login successful!";
            header('Location: index.html'); // Redirect to a welcome page

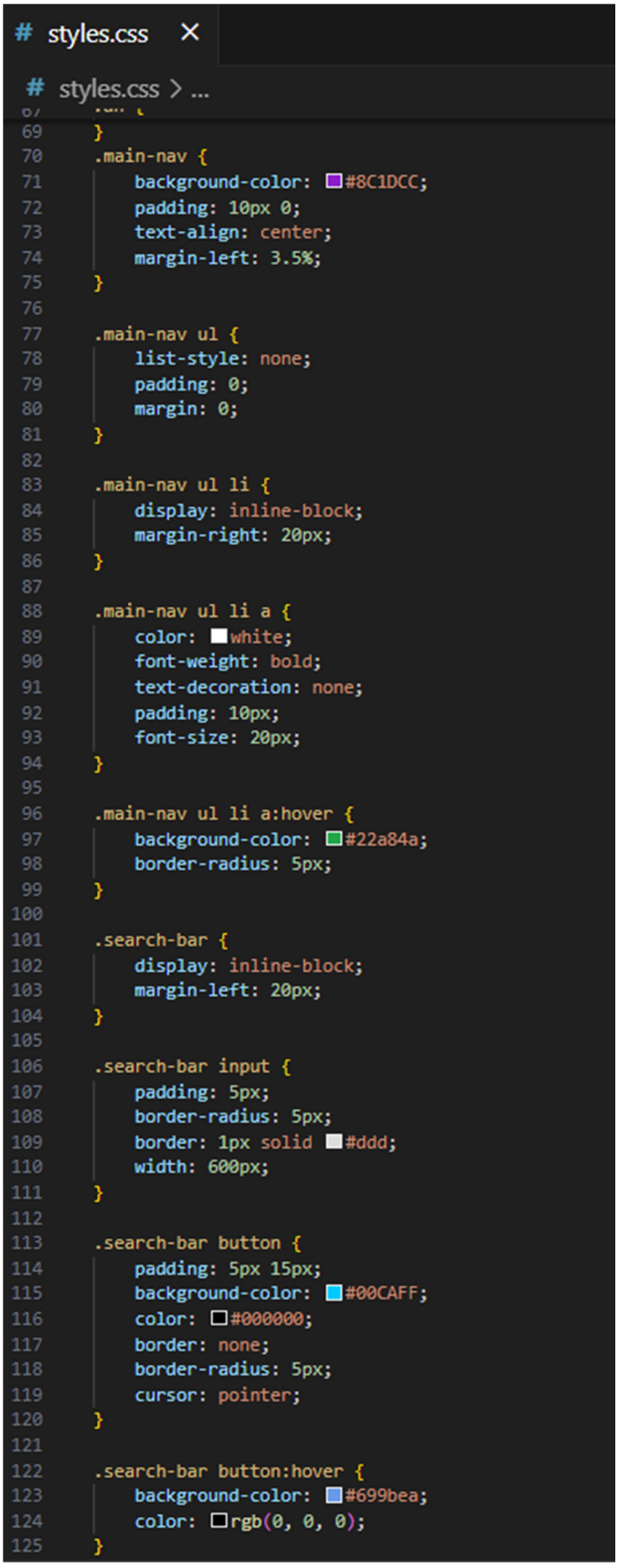
        } else {
            echo "Invalid password.";
        }
    } else {
        echo "No user found with that email.";
    }

    $conn->close();
}
?>

```

Styles.css


styles.css
styles.css > .r
body {
font-family: 'Arial', sans-serif;
line-height: 1.6;
background-color: white;
margin: 0;
padding: 0;
}
.ag{
background-color: #8C1DCC;
}
.container {
width: 100%;
margin: 0 0;
max-width: 1200px;
margin-left: 10%;
margin-bottom: -10px;
}
header {
background-color: #ffffffff;
color: #000000;
}
.header-top {
display: flex;
justify-content: space-between;
align-items: right;
padding: 15px 0;
margin-top: -15px;
}
.logo {
display: flex;
align-items: center;
}
.logo img {
width: 60px;
margin-right: 15px;
}
h1 {
font-size: 24px;
margin: 0;
float: left;
}
p {
font-size: 14px;
margin: 0;
}
.language-date {
text-align: right;
}


styles.css
styles.css > ...
}
.main-nav {
background-color: #8C1DCC;
padding: 10px 0;
text-align: center;
margin-left: 3.5%;
}
.main-nav ul {
list-style: none;
padding: 0;
margin: 0;
}
.main-nav ul li {
display: inline-block;
margin-right: 20px;
}
.main-nav ul li a {
color: white;
font-weight: bold;
text-decoration: none;
padding: 10px;
font-size: 20px;
}
.main-nav ul li a:hover {
background-color: #22a84a;
border-radius: 5px;
}
.search-bar {
display: inline-block;
margin-left: 20px;
}
.search-bar input {
padding: 5px;
border-radius: 5px;
border: 1px solid #ddd;
width: 600px;
}
.search-bar button {
padding: 5px 15px;
background-color: #00CAFF;
color: #000000;
border: none;
border-radius: 5px;
cursor: pointer;
}
.search-bar button:hover {
background-color: #699bea;
color: rgb(0, 0, 0);
}

Script.js



```
function performSearch() {
    const query = document.querySelector('#search-input').value;
    if(query) {
        alert(`You searched for: ${query}`);
    } else {
        alert("Please enter a search term.");
    }
}
function printContent() {
    window.print();
}

function updateDateTime() {
    const currentDate = new Date();
    const options = {
        year: 'numeric',
        month: 'long',
        day: 'numeric',
        hour: '2-digit',
        minute: '2-digit',
        second: '2-digit'
    };
    const banglaDate = currentDate.toLocaleDateString('bn-BD', options);
    document.getElementById('current-datetime').textContent = banglaDate;
}

updateDateTime();
setInterval(updateDateTime, 1000);


    function sendEmergencySMS(lat1, lng1) {
        const message1 = `Emergency! Location: https://www.google.com/maps?q=${lat1},${lng1}`;
        const defaultPhone1 = "+8801234567890"; // Default emergency contact number
        const smsLink1 = `sms:${defaultPhone1}?body=${encodeURIComponent(message1)}`;
        window.location.href = smsLink1; // Open SMS app with pre-filled message
    }

    function locateUserAndNotify() {
        document.getElementById("statusText1").style.display = "block";

        if (navigator.geolocation) {
            navigator.geolocation.getCurrentPosition(function(position) {
                const lat1 = position.coords.latitude;
                const lng1 = position.coords.longitude;
                document.getElementById("statusText1").style.display = "none";
                sendEmergencySMS(lat1, lng1);
            }, function() {
                alert("Location access denied or unavailable.");
                document.getElementById("statusText1").style.display = "none";
            });
        } else {
            alert("Geolocation is unsupported on this device.");
            document.getElementById("statusText1").style.display = "none";
        }
    }

    document.getElementById("alertBtn1").addEventListener("click", locateUserAndNotify);
```

Validate_user.php

validate_user.php

```php
<?php
// Connect to the database
$conn = new mysqli("localhost", "root", "", "user_management");

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Check if form is submitted
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Validate POST data
    $email = isset($_POST['email']) ? $_POST['email'] : null;
    $first_name = isset($_POST['first_name']) ? $_POST['first_name'] : null;
    $username = isset($_POST['username']) ? $_POST['username'] : null;

    if (!$email || !$first_name || !$username) {
        die("Required fields are missing!");
    }

    // Prepare the SQL statement
    $stmt = $conn->prepare("SELECT * FROM users WHERE email = ? AND first_name = ? AND username = ?");
    if (!$stmt) {
        die("Prepare statement failed: " . $conn->error);
    }

    // Bind parameters
    $stmt->bind_param("sss", $email, $first_name, $username);

    // Execute the query
    $stmt->execute();
    $result = $stmt->get_result();

    if ($result->num_rows > 0) {
        echo "Details match! Redirecting to reset password...";
        header("Location: reset_password1.php");
    } else {
        echo "Details do not match!";
    }

    // Close statement and connection
    $stmt->close();
    $conn->close();
} else {
    echo "Form not submitted.";
}
?>
```

Signup.php

validate_user.php | signup.php

signup.php

```php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {

    // Database connection
    $conn = new mysqli($dbHost, $dbUser, $dbPass, $dbName);

    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }

    // Get and validate form data
    $firstName = htmlspecialchars(trim($_POST['first_name'] ?? ''));
    $username = htmlspecialchars(trim($_POST['username'] ?? ''));
    $email = htmlspecialchars(trim($_POST['email'] ?? ''));
    $password = isset($_POST['password']) ? password_hash($_POST['password'], PASSWORD_BCRYPT) : null;
    $birthday = isset($_POST['year'], $_POST['month'], $_POST['day']) ?
    $_POST['year'] . '-' . str_pad($_POST['month'], 2, '0', STR_PAD_LEFT) . '-' . str_pad($_POST['day'], 2, '0', STR_PAD_LEFT) : null;

    $gender = $_POST['gender'] ?? null;

    if (!$firstName || !$username || !$email || !$password || !$birthday || !$gender) {
        die("All fields are required.");
    }

    // Validate gender
    if (!in_array($gender, ['Male', 'Female'])) {
        die("Invalid gender value.");
    }

    // Validate birthday
    if (!$birthday || !preg_match("/^\d{4}-\d{2}-\d{2}$/", $birthday)) {
        die("Invalid birthday format.");
    }

    // Check if email already exists in the database
    $stmt = $conn->prepare("SELECT id FROM users WHERE email = ?");
    $stmt->bind_param("s", $email);
    $stmt->execute();
    $stmt->store_result();

    if ($stmt->num_rows > 0) {
        die("You have already registered with this email. Please try again later.");
    }

    $stmt->close();

    // Prepared statement to prevent SQL injection
    $stmt = $conn->prepare("INSERT INTO users (first_name, username, email, password, birthday, gender) VALUES (?, ?, ?, ?, ?, ?)");
    $stmt->bind_param("ssssss", $firstName, $username, $email, $password, $birthday, $gender);

    if ($stmt->execute()) {
        echo "Registration successful!";
        header('Location: rl.html');
        exit();
    } else {
        error_log("Database error: " . $stmt->error);
        echo "An error occurred. Please try again later.";
    }
```

validate_user.php | signup.php X

signup.php

```php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $stmt = $conn->prepare("INSERT INTO users (first_name, username, email, password, birthday, gender) VALUES (?, ?, ?, ?, ?, ?)");
    $stmt->bind_param("ssssss", $firstName, $username, $email, $password, $birthday, $gender);

    if ($stmt->execute()) {
        echo "Registration successful!";
        header('Location: rl.html');
        exit();
    } else {
        error_log("Database error: " . $stmt->error);
        echo "An error occurred. Please try again later.";
    }

    $stmt->close();
    $conn->close();
}
?>
```

Logout.php

logout.php

```php
<?php
session_start();
session_destroy();
echo "You have been logged out.";
?>
```

Update_password1.php

reset_password1.php | update_password1.php

update_password1.php

```php
<?php
session_start();
if (!isset($_SESSION['email'])) {
    die("Session expired. Please start again.");
}

$conn = new mysqli('localhost', 'root', '', 'user_management');

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $email = $_SESSION['email'];
    $new_password = password_hash($_POST['new_password'], PASSWORD_BCRYPT); // Hash password

    $query = "UPDATE users SET password = '$new_password' WHERE email = '$email'";

    if ($conn->query($query) === TRUE) {
        echo "Password updated successfully!";
        header("Location:index.php");
        session_destroy();
    } else {
        echo "Error updating password: " . $conn->error;
    }
}
?>
```