

WOMEN SAFETY: An Android App to Provide Help to the Women in Danger

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering

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APPROVAL

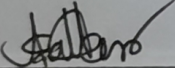
This Project titled “Women Safety: An Android App to Provide Help to the Women in Danger”, submitted by *Abdullah AL Mamun* to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on *24th January, 2023*.

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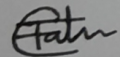
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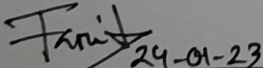
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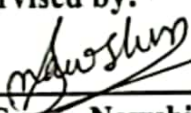


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DECLARATION

We hereby declare that this project has been done by us under the supervision of Ms. Samia Nawshin, Assistant Professor, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.


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ABSTRACT

Anyone venturing out alone at night is at risk in today's society, especially women. A great way to guarantee the safety of women and reduce your chance of being a victim of violent crime is to be aware of the services that are available to us and to use them to our advantage. Having safety apps on our phones allows us to reduce danger and help those in need. Unlike other apps that only work in emergencies or when there is a hazard, this software may be utilized as a safety or preventative precaution. "Prevention is better than cure," says a proverb. Therefore, making the initial move is the proper move. We currently live in a technologically advanced era. We rely on it and are unable to function for even a second without it. Up to 75% of female employees in some countries, like Malawi and Swaziland, express worry about workplace violence and harassment. According to the World Risk Poll, over 11% of female employees worldwide experience workplace violence and harassment, which has a comparable incidence among men and women. We wish to create this Android application for that reason. It aids in making a female feel secure.

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CHAPTER 1

Introduction

Women are being harassed in large numbers these days. Because of the awful circumstances, no female can go out. We require a contemporary response for this modern period. People now own smartphones. In our nation, 98% of the population owns a phone. Additionally, 80% of individuals use smartphones. If we count 80% of the population as 100%, then 80% of the population uses android smartphones. These days, we frequently utilize mobile applications. The revolution has led to the addition of several features to the realm of mobile computing. When she needs assistance or is being harassed, she may access security assistance through our application. Since women's safety is a significant issue, it is imperative that everyone take action to safeguard them. A smart phone may be a useful tool to prevent violence against women when it comes to safety and security. In light of this, a specifically made Android app has been developed to assist individuals in need. Our use of flexible, well-built apps nowadays is based on a regular routine. The disturbance has led to the addition of several components to the realm of flexible figures. You may locate police assistance immediately with the aid of this Android app. For a girl, this software can serve as a weapon of self-defense.

1.1 Background of the Project

We reside in a growing nation. Everything has been transformed into an Android application. Women's harassment is a significant problem today. Within their household, a female is not even safe. The framework is designed and developed with the idea that it should be user-friendly, simple to search, have a premium and streamlined presentation, and provide the customer with convenience. The Framework's User Interface was designed with the idea that it should be stunning, fascinating, and understandable from the first, and crystal clear. In these situations, we examine certain issues and work to develop a way to resolve them.

1.2 Objective of Project

In order to prove our claims, we have established a few objectives. This will develop in a much clearer manner. The goal is indicated below.

- Making a simple security system for everyone

- Developing a compassionate approach toward communities that need a female.
- To raise people's awareness of the value of women's security.
- Creating a secure society and a security system based on progress.

1.3 Aim of The Project

We intend to provide this help across the nation.

- It will ideally perform wonderfully.
- An intuitive and practical android-based women's security app.
- Provide assistance quickly. Reduce workload strain.
- Making a quick and simple process for both victims and police; creating a better and safer society for everyone, especially women; and creating a better society that is also more secure.

1.4 Motivation

The adoption of smartphones with GPS navigation systems has rapidly increased from 3% to more than 20% during the last five years. This makes a smartphone a valuable tool for personal safety or other types of protection, especially for women. The user merely has to click once to activate this app in an emergency. Every few seconds, this program sends messages to the contacts it has on file notifying them of the user's position. Since it follows the user until she deems, she is safe, it serves as a sentinel.

1.5 Problem Statement

This software can provide a girl with immediate assistance. The problem of female harassment is getting worse every day. Nobody is ever safe. A girl may experience several types of harassment. One of them is sexual harassment. In addition, we witness harassment based on race, gender identity, and age. Women are far more likely to experience sexual harassment because they typically lack authority, are in more exposed and uncomfortable situations than men, lack confidence, or have been socialized to suffer in silence. Understanding why women suffer the vast majority of sexual harassment requires examining some of the situation's core causes. Therefore, we have decided to create this app.

1.6 Research Methodology

● Introduction

Choosing a system is essential to the success of any endeavor. It must be appropriate and relevant to the circumstances of the activity. Systems support the creation of a project team and the understanding of the project's business requirements in relation to its end requirements. This section provides a system overview of the planned effort.

● Data Collection

Techniques for gathering information come in a wide variety of forms and dimensions. There are two different kinds of strategies that may be applied. The first is the framework for gathering crucial information, and the second is the framework for collecting information during the second stage.

- Direct quotes from primary sources including giver volunteers, patients, doctors, patients, relatives who really read descriptions, and scheduled interviews with workers and partners will be used to gather primary data. Important data is divided into qualitative and quantitative orders. Business rates are determined using quantitative data, while attitudes, interests, and affiliations with the thing or outcome are surveyed using subjective data.
- Information that was acquired from sources other than the original stoner is referred to as secondary data. It is available in general literature, books, and online. Secondary data is less important than primary data and is easier to gather. For analysis, both systems are still required.

1.7 Proposed System

We are putting up an android-based application that will assist a female in peril. She can assist herself by doing this. Some features will be present. She may use the app to both report issues and receive emergency assistance. She will hit the emergency button if she senses danger or unease. There will be three options on the emergency button, including get current location, local police station, and nearby hospital. The system is mostly a smartphone app that is native to the Android platform. Depending on the end user, each user's interaction with the program will vary. A victim can contact police as quickly as possible via this program.

1.8 Conclusion

In the case that this project is carried out, we may envision a probable outcome. Police or neighboring hospitals are available to assist any female in need. Our intention in developing this program was to provide women with a secure environment via their cell phones because today, the majority of people carry them everywhere they go.

1.9 Chapter's Layout

- With its introduction, motivation, aims, and proposal, Chapter 1 provides an overview of the project.
- The "Background" section of Chapter 2 will include an introduction, relevant work, problem, research summary, and problems.
- The requirement specification will be in Chapter 3.
- System analysis and Design Specification will be in Chapter 4.
- System development will be discussed in Chapter 5.
- Implementation testing and results will be covered in Chapter 6.
- The discussion of Summary and Conclusion in Chapter 7 will also provide a preview of upcoming works.

CHAPTER 2

Background Study

2.1 Introduction

This section describes several connected studies and applications for women's security in our nation and other nations.

2.2 Existing System

Today, a wide variety of mobile applications are being developed to do various academic activities. Around the world, many educational institutions use this. Examples of notable contributions made to this subject include the following:

The "WOMEN'S SECURITY" application was developed by AppSoftIndia. One of the main functions of the program is to allow the user to store certain data. These interesting details include the email address and secret key of the client, the mobile number and email address of the recipient, as well as an instant message. The program is then layered as a "gadget" that, when tapped by the client, alerts the collector. After recording the voice of the climate for around 45 seconds, an instant message with the client's location coordinates is sent to the target mobile phone. [8]

The "POLICE NEARBY" application was created in 2013 by BigSystems. The nearby police scanner An Android app was created specifically to connect residents and students to the closest police station in their metropolitan neighborhoods with a single click. Additionally, it enables local communities to become more active using only Android mobile devices. With the aid of the Police Scanner Android App, local, state, and school police departments can communicate with you and provide you with greater assistance. The police app may be downloaded without cost or registration. [5]

Go Pal App Maker released Yell Alarm for Android in November 2013[10]. By clicking this program, it emits a shrill noise similar to that of a single bomb screaming in a tense situation.

The created shout in a woman's voice is quite helpful in taking down the potentially powerful lowlifes. When a user pushes or contacts the program, the phone shouts loudly in a woman's

voice. This is the main task this application does. The programs mentioned above deal with various stages; some are primarily for Android or Windows, while others run on iOS, Windows, and Android. Whatever the case, although this application Security Alert is exclusively intended for the Android platform, future work on Windows and iOS platforms may be relaxed. The open source Android platform was created using an open Linux Kernel to encourage developers to create attractive, useful applications that will benefit from the features the device has to offer. Android creates and makes use of a virtual machine in order to advance the memory and hardware resources of a flexible environment.

Anil Kumar Biswal, Debabrata Singh, and Shreya Chakraborty created "NAARI," another unique app. The main goal of this program is to provide a reliable platform via an Android phone. A GPS tracker may be used to determine the location [15].

PDAs are more popular nowadays, and because of this, a PDA may be used profitably for personal security or other insurance purposes. Because of the scandalous incident that rocked the entire country, we are now more motivated than ever to pursue wealth. As a result, a vast array of new apps has been developed to provide security structures to women through their phones. This article introduces an Android application for women's safety that may be launched with a single click if the need arises. Through GPS, a simple click on this program may identify a specific location and send its whereabouts to the contacts who have signed up for it. It can also travel toward the primary contact to assist the long-distance contact.

We intend to provide data as soon as possible. The product software updates the information for a young woman who sends messages in her region similarly.

2.3 Conclusion

These requirements are more important in the women's security framework, according to the information we have learned from the overview. Manually handling every woman's security framework is dangerous and time-consuming. Therefore, even if we are unable to meet all of the requirements mentioned above, we have provided solutions for some of the application's most pressing problems.

CHAPTER 3

Literature Review

3.1 Introduction

The literature review offers a summary of the essential information from an academic publication on a particular issue. It ensures that a subject is fully comprehended. Finding relevant work in the selected sector, prospective problems, and specifications for a project's creation are made easier with its assistance. As a result, it is essential to the growth of a project.

3.3 Research Methodology

She may transmit messages to one individual, as evidenced by the poll from the problem enunciation subchapter we already discussed. As we previously stated, this product is an electronic application that advises flexible data or a web connection should be distributed on the device. Setbacks, police, and saver are our effort's genuine performers. With the assistance of the various parties, the organizational units of the system dispersed. The organizations are: Visit, Get Help, Emergency, and Share Region.

We utilized XML (Extensible Markup Language) to execute the structure UI, combining Recycler view and Card view with an available android material arrangement. Due to differing goals, we chose Java language in the backend area. We used Firebase's real-time functionality, known as "Realtime Database," to store the data and items.

The backend of our project is really divided into three parts: a server, an informative collection, and more than one application. When you purchase an air ticket through a transportation company, you often access the ticket booking site and interact with the frontend since it has a helpful way to look up a customer. As soon as the client enters the data it requires, the program stores it to a server-created informative index. As a result, we create an informative collection in our back-end system to hold the data that the server overrides the clients. For the development of our application, we used Java.

3.4 Conclusion

I have a tremendous amount of information now that I have examined everything. Understanding the problems with the problem domain and how to fix them was also helpful. Additionally, it assisted me in better understanding professional tasks. It improves my capacity to identify a problem's prerequisites.

CHAPTER 4

System Analysis and Design

4.1 Introduction

Systems Analysis and Design are referenced as framework methodologies for creating excellent mechanization frameworks. Innovation in data is combined. Steps include planning, examining, executing, and providing assistance. The creation interaction as well as upcoming framework support tasks are both covered. The basic SAD approach is the cascade model, which is very simple to use simply adhering to the model steps. The main focus is in this sense on writing computer programs.

Its aims are numerous. Which are:

- This kind of evaluation provides a fortunate area of data and detachments of various frameworks, measurements, limitations, and full designs.
- Evaluation of frameworks aids in maximizing the strength and simplicity of various designs.
- In particular, it revolves around structures where other small designs could raise objections, and it also relates to the comprehension of major plans.

4.2 System Analysis

It is a structure for gathering and evaluating data, spotting problems, and disassembling a motorized design into its component pieces. This kind of assessment is planned to focus on a manual issue or its components to see its requirements or goals. A clear-thinking cycle controls the technique and ensures that all extraneous components of the robotization framework function flawlessly to fulfill their purpose.

The two most important components of construction assessment are improvement and life cycle. The Software Development Life Cycle is a technique for producing excellent programming at the lowest cost and in the shortest amount of time. This life cycle offers a smooth progression of phases that facilitates a partnership in sending an overall message about trying out programming swiftly. Different models might be used to represent the SDLC.

4.3.1 Block Diagram

A client-server architecture underpins this smart mobility application. Data from all clients is stored on the Real-time illuminating record server. The request at this stage is for a reliable, educational record server. This is an insightful record structure that includes a historic method of managing the information, and the unheard-of method is Real-time handling. There is no influence on information base access in the current scenario because the status is always changing. Clients can access data, but they must first install the program on their remote before doing so.

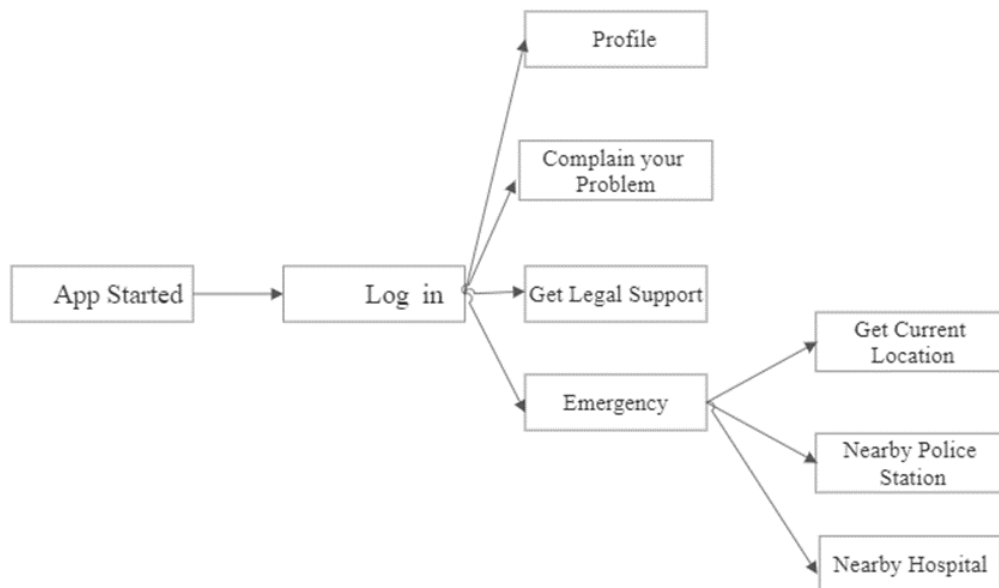


Figure 4.3.1: App's Block diagram

4.3.2 Data Flow of Women Security App

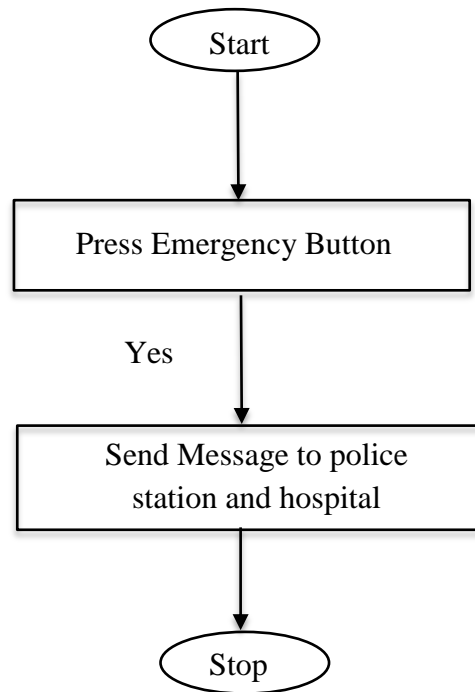


Figure 4.3.2: Flow chart of Women Security App

4.4 Conclusion

The design evaluation and strategy that will be utilized to compile this application has been the focus of the whole section. The framework of this application includes a thorough analysis of a build to identify potential growth areas and, where needed, to make invigorates. When a framework assessment is carried out precisely, it ensures that the sensible path is selected in terms of applications and aids in reducing blunders, which lowers future IT basics for conclusive thinking. If the aforementioned cycle is faithfully carried out, it will not only save the connection money quickly but will also guarantee that the right application approach is taken the first time, that turn of events and business charge examinations have been taken into account to accommodate likely plans, and that misconceptions are kept to a minimum, reducing the fundamental for future IT invigorates, which are more reasonable, supportive, and adaptable.

CHAPTER 5

System Evolution/Development

5.1 Introduction

Design movement or framework improvement is the most popular term used to describe how to represent, create, or complete a framework while taking structure evaluation and arrangement into consideration. It is a fundamental arrangement in the world of programming development because it is the overall progression of how a framework is communicated or remembered. The success of any data structure depends on the seasons in which its occurrences occur.

5.2 Front end development

Among the IDEs available for structuring Android apps are Droid Script, Visual Studio, and Android Studio. Our job includes Android Studio. Since Android Studio is one of the most amazing IDEs for creating PC apps for Android, this mobility tool was created by Google and has received accolades from flexible application developers, first on one side of the earth and subsequently on the other. The advantages of utilizing Android Studio as an Android development environment are special. With the help of this, front-end and back-end development may be carried out in a fluid environment.

5.3 User interface Design

XML was used to create the affiliation point for our project. When we mention "xml," we're looking at the Extension Markup Language. In every important manner, a markup language for information depictions differs from HTML. Robots and humans alike can quickly view XML. We utilize xml to create our designs for Android since it is a lightweight language that keeps our layouts simple. Unbelievably, the Endlessly View Group objects' constantly evolving game plan represents the whole contemplated xml.

A View Group is an odd container for organizing children's views. These kids are exposed to additional devices that are used to create various UI components. The UI fluctuates based on the client. We have two distinct types of affiliation centers to display this application. The opinions

on a client's activity and a specialist's progress are completely different since their positions may be independently verified.

Table 5.3.1: User Interface

1	App started
2	Create Profile
3	Log in
4	Homepage
5	Profile
6	Complain your Problem
7	Get Legal Support
8	Emergency
9	Get Current Location
10	Nearby Police Station
11	Nearby Hospital
12	Log Out

5.4 Our Proposed System

The suggested approach is to create an Android/iOS app that sufferers may utilize when they need assistance. The profile section contains information about the user who registers for this program. We used the Google Map API to receive the server's quickest response on our proximity. To overcome the difficulties in locating the fascinating sources of assistance, this application was created. A victim using this system will be able to send messages to the police station and surrounding hospitals as well as reveal her current position by pressing the emergency button. would enable her to receive assistance as quickly as feasible.

5.5 Implementation Requirements

There are the requirements to implement our project, Hardware specification, Software specification.

5.5.1 Hardware Requirements

Table 5.5.1: Hardware requirements table

Processor	AMD Ryzen 5 2500U with Radeon Vega Gfx2.0 GHz
Disk Space	50 GB of SSD and 655 GB of Hard Disk Available
RAM	8GB
Display	1920*1080
Graphics	NVIDIA GeForce GTX 1050 series 4gb
Mobile Phone	One Plus Nord

5.5.2 Software Requirements

Table 5.5.2: Software requirements table

Operating System	Windows 10 64-Bit
IDE	Android Studio
Database	Firebase
Web Browser	Google Chrome

5.6 Functions

Our system has five functionalities in total. We've made every effort to further build our application. The features include updating your information, complaining about an issue, asking a scholar, getting legal assistance, and an emergency. We also attempted to provide a feature that is completely different from what the current app offers. Its emergency function is that. She has three alternatives here.

5.6.1 Main Page of App



Figure 5.6.1: Main page

5.6.2 Profile Function

Informational purposes only in this section. They will first complete the sign-up form. There, a user's complete information will be entered. They will be able to view the house layout after signing up.

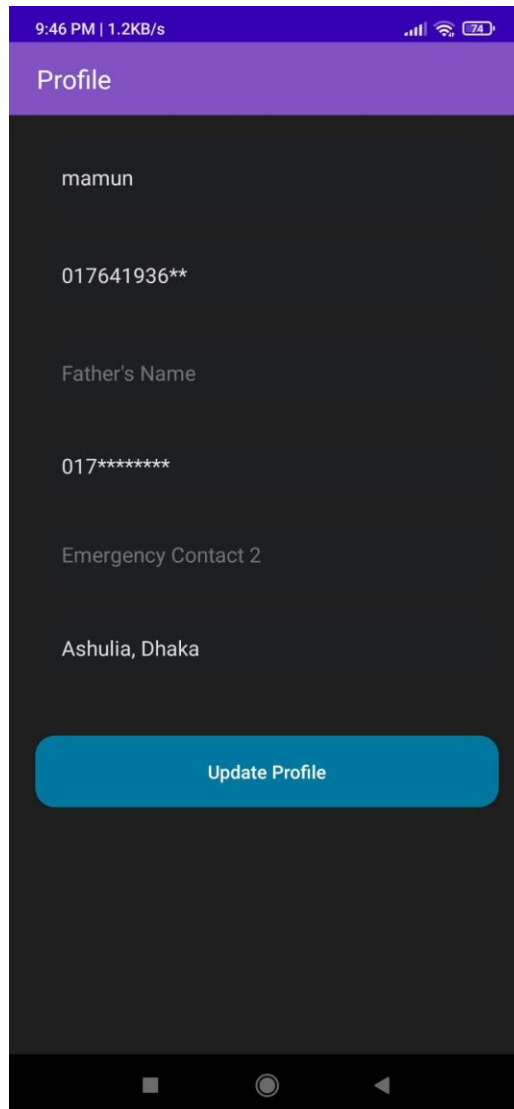


Figure 5.6.2: Profile page

5.6.3 Emergency Button

After adding their location, the user. In order for a user to locate the closest police station. By using this service, a user may also discover the closest hospital.

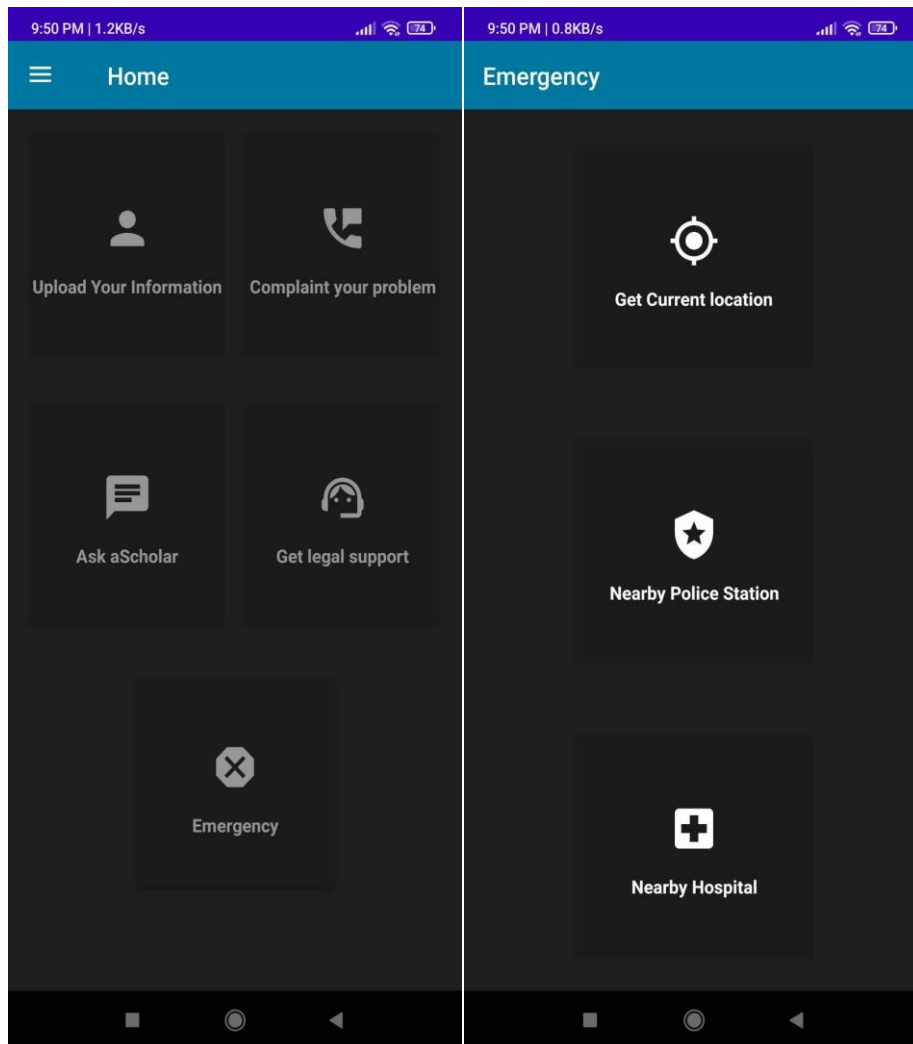


Figure 5.6.3: Emergency page

5.6.4 Ask a Scholar Function

With the use of this feature, a user may SMS a scholar if they have questions or wish to know anything.

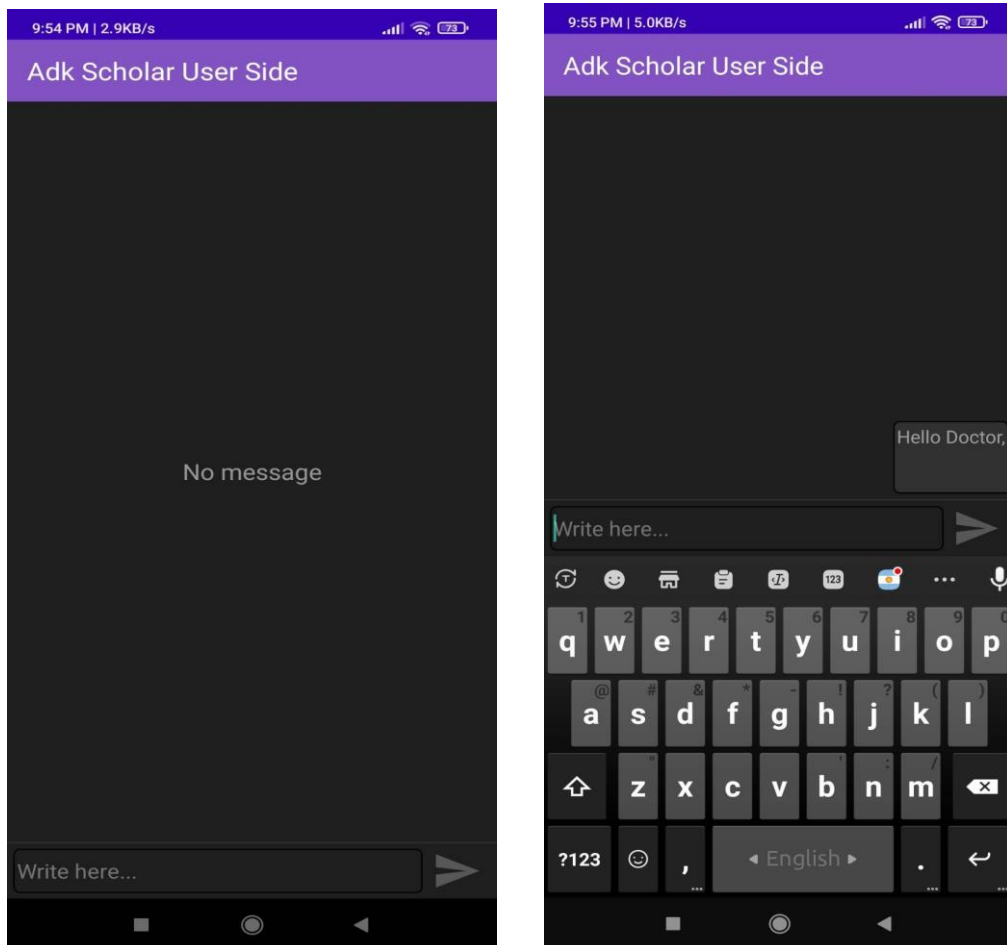


Figure 5.6.4: Ask a scholar page

5.6.5 Complain your Problem

A user's issue may also be brought up.

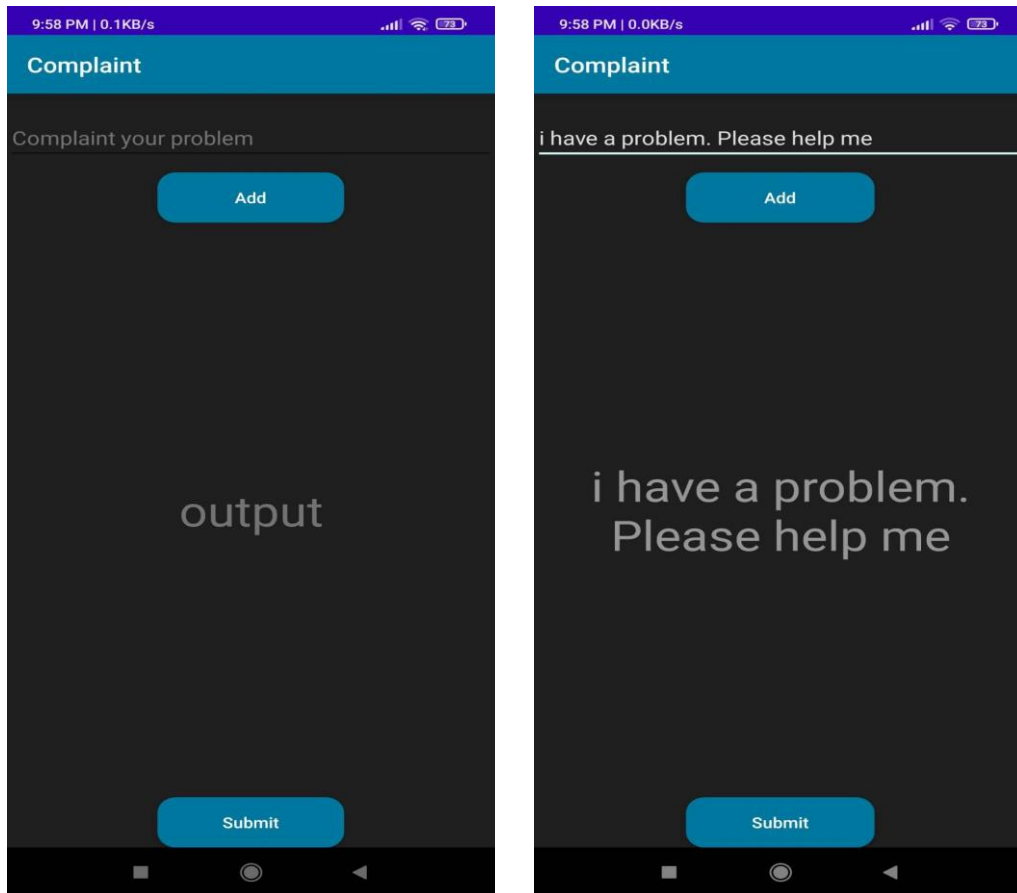


Figure 5.6.5: Complain page

5.6.6 Admin Part of the App

This module allows the administrator to monitor and respond to user concerns and crimes, as well as add and remove hot news and missing person information.

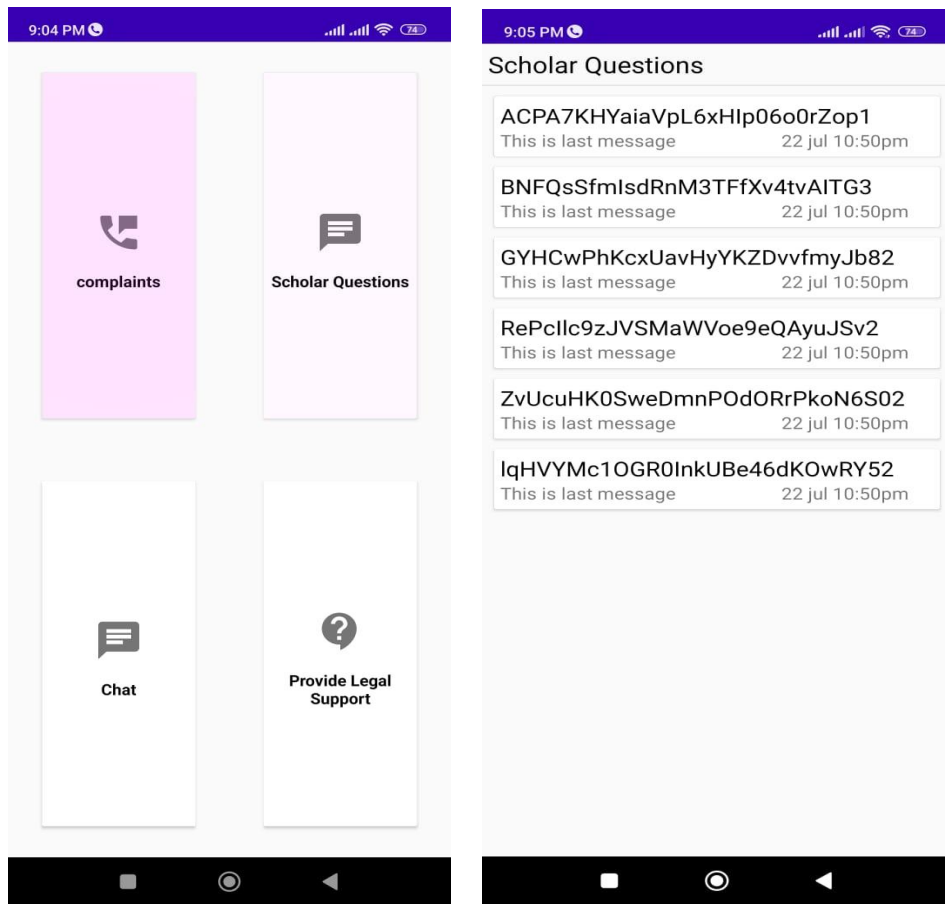


Figure 5.6.6: Admin page

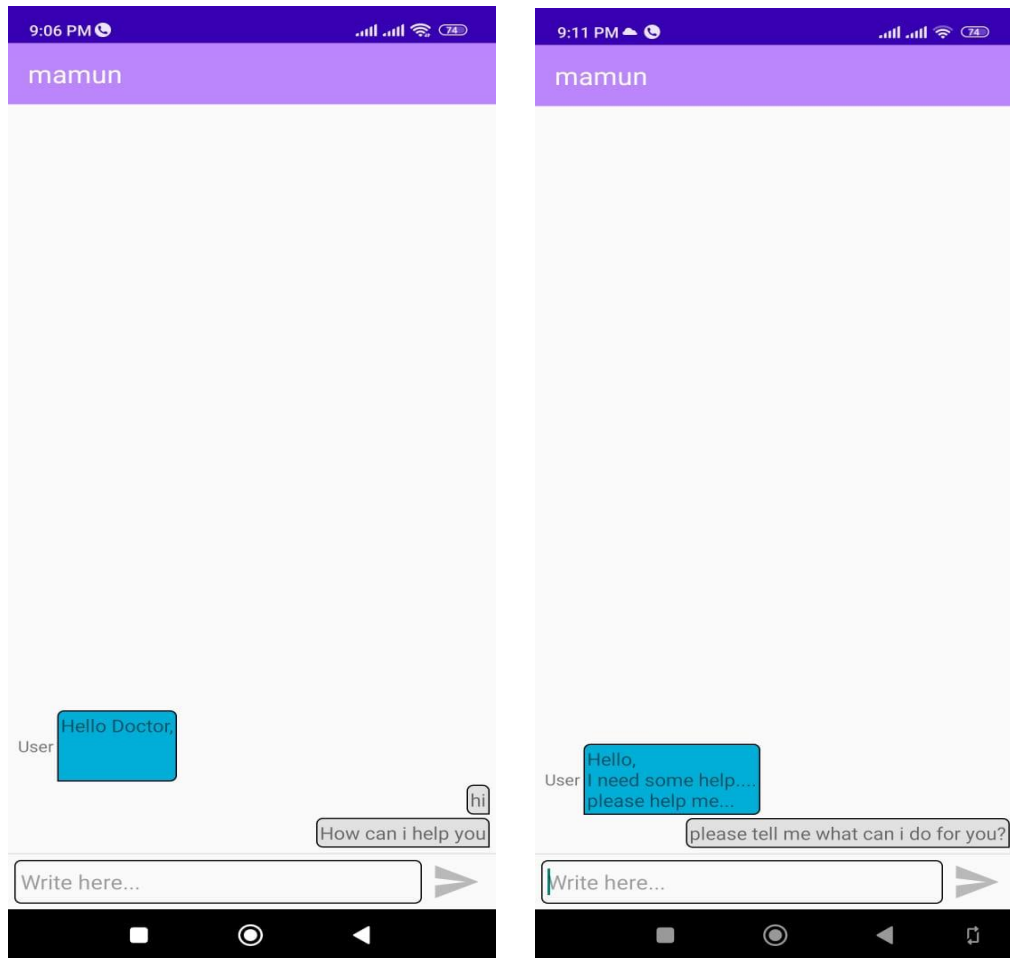


Figure 5.6.6.2: Admin chat page

5.7. Back End development

The burial service chief's back end was built using the JAVA programming language. We are aware that Java is a computer language with an article structure. It is a widely used, class-based programming language that is fair-minded. It is crucial that it anticipates at least two of the possible three scenarios. The run-time code is executed as unified code by the Java Virtual Machine (JVM). Traditionally, Java and the Android SDK have been used to create Android applications. The most impressive and complex programming language for creating Android applications is this one.

The main goal of the Android enhancement application was to create a platform application environment that could control any device. It's obvious to transform your stuff into an intelligent system. Java was chosen for the advancement of Android since it contains this type of standard.

5.7.1 Database Design

A reliable social event of forming an educational list to the side in a PC structure electronically is referred to as an educational record. Both the safety of revealing data and the protection of personal information are actually under control. A safe-guarded informational index is the distinguishing feature of a computerization system. We employ a Firebase edifying variation with a room-instructive rundown to store data in our application.

A backend programming framework is called Firebase. A piece of software encourages users to collaborate with an educational record in a social setting. It's a Google platform for developing careful mobile apps and web applications. We might thus package it as a Google backend application that communicates wonderful associations, such as application crash objective, assessment uncovering, and following. In Firebase, an informative rundown is stored in a particular record, setting it apart from other informative document engines.

A backend programming framework is called Firebase. A piece of software encourages users to collaborate with an educational record in a social setting. It's a Google platform for developing careful mobile apps and web applications. We might thus package it as a Google backend application that communicates wonderful associations, such as application crash objective, assessment uncovering, and following. In Firebase, an informative rundown is stored in a particular record, setting it apart from other informative document engines. Making the application as determined as possible is the main goal of implementing Firebase. Firebase serves as the foundational platform via which we may advance, evaluate, and form connections. Finding the center key is just as important as finding the root knowledge since the educational assortment table is handled in a gradually expanding method. However, it does contain two or three indisputably present components, such as endorsement, limitation, cloud firestore, and developing knowledge base. Comparatively, we've included a report issue selection using Firebase's benefit. Any customer who encounters a critical issue or illegal bugs can report it to the creators. He has to identify the topic and any nuances for this. His ID will be supplied along with the report, which will likely include a legitimate time and date. Using the ID, the clothes

designer could identify the person and address the problem. We can essentially describe the specifics in the audit of the educational assortment.

We may use this firebase's application informing administration for further development.

5.8 Conclusion

In this part, we learned about the front-end plan, and we constructed the back-end improvement toward the front arrangement. XML, a human-language instead of a coding, is used to make UIs. Besides, it's not difficult to scrutinize and get a handle on, regardless, for youngsters, and it's very simple to code.

CHAPTER 6

Testing and Implementation

6.1 Introduction

Execution suggests that the system is drawn to shifting a structure as a significant concern. The execution step is when the assignment plan is put into effect. On the other hand, project testing after execution is a crucial step in assuring the effort a respectable outcome.

6.2 Testing

Programming testing is a process for determining whether the actual programming object complies with the required standards and ensures that it is error-free. Programming's difficulties will probably focus on holes, gaps, and unmet requirements rather than real basics.

In our attempt, the examination outcome is generally based on the suitable interchange of the educational variety. In recent years, students have been able to include the request as the motivation for their requests. As a result, SQL orders should be used to update the information in the illuminating record whenever someone searches for anything or posts a request. A robust endorsement framework is introduced in the interim. The testing outcome should be appropriately subject to the endorsement framework. All exceptional situations should be combined during testing, regardless of the nature of the problem. All toasts and incorrect messages must be displayed perfectly.

Our project must be successfully completed in several key areas for it to be successful. For instance, the structure of the endorsement, how the item was presented, how well the button group tuned in, how the objective moved from one action to the next, etc. Access is one of the most fundamental points of strength for. Without a connection to the Internet, our framework is unable to access it. The Android Studio manifest record's endorsement was found there. Web connectivity is necessary for application enlightenment, test adventure, and studying prior requirements. Since we've explicitly stated that a live server would be used for our ongoing instructional library.

On the off chance that their web alliance is down, customers cannot access the instructional list. As a result, they won't receive a lucky warning at the perfect time.

6.3 Implementation

In this part, we'll examine how to set up testing to complete development. Incorrect login credentials, for example. For example, it can be the result of using an inappropriate login name and password to access the head board. You cannot access your educational record using the previous authorizations if your login credentials are extremely unique. The first thing you should do is double confirm that the login credentials you're using are correct. Customers must provide a few basic details as well as a few amazing details in order to participate in our project. An avoidance warning may appear to be anticipating that someone will provide inaccurate or incomplete information. You will be brought closer to inputting your username and secret word during the sign-in procedure as soon as the sign-up process is complete. On the off chance that somebody gives beguiling genuine data, an exemption notice will appear. If a client forgets to remember their secret articulation, they can utilize the significant disregard of secret articulation choice. The client should give their email address, and an email will be shipped off that region meanwhile.

6.4 Result and Discussion

By the results of all testing and the execution phase, the project is still in limbo. These occurrences, such as searching for assistance, having an emergency, and speaking, are plainly documented in the data set. Particularly due to a commitment framework, the client must first register before providing the important facts of the inquiry in the commitment area and reading the inquiry from his device's hard drive. All clients may now access the data set after it has been sent, enabling them to search up information or obtain data from it. This computation is what the program really did.

If the user interface (UI) is clear and excellent, the tasks should all be carried out more simply. The user interface (UI) in this project is quite simple to use, and there is also a client handbook where the client can find out anything about the framework. There is also a link to the power's contact information, which users may utilize to get in touch with them if they run into any problems using the application. We are probably somewhat aware with the room information base from the previous section, which uses lodging comments to replace tedious and mistake-prone standard code. This is a fantastic chance for the venture's course of action. Stuff eliminates

the need for an engineer to create a lot of it to organize and manage information bases. Additionally, SQL queries may be approved at a predetermined time. All of the alerts are referred to in a different component class. The warnings will all be shown in a listview via Custom Adapter. Connector is an Android component that connects a UI part to a data source and enables us to fill the UI part with data. It saves the data and transmits it to an adapter view, which may use the connector view's data and display it in many ways, such as List View, Grid View, etc. Whatever the case, we can easily utilize Array Adapter in this circumstance. Our main goal was to provide the program the most power possible, which is why we chose to use Custom Adapter.

It's crucial to understand how a customer feels about an application. As a result, we've concentrated on creating an intuitive (UI). Thus, clients don't have to wait to be notified in order to take full advantage of our application's capabilities. Additionally, we have positioned our application across a range of sizes for the best UI execution on different device types. The Women Security App icon may be placed anywhere on the smartphone's home screen so that we can immediately access it when we are in danger. We attempted to check it and were successful. The app has been tested, and the results are shown below:

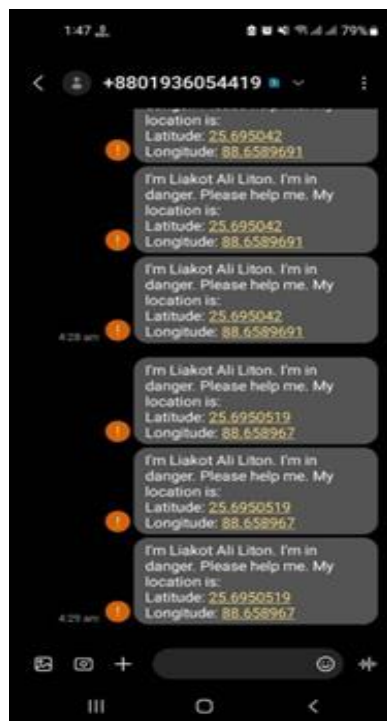


Figure 6.4.1: Message Notification

6.5 Conclusion

Generally speaking, several primary undertaking-related topics have been clarified in this section. We're discussing meaningful and realistic programming testing from the first subpoint and how it impacts real success. Genuine bugs cannot be remedied, which is an incredibly rare scenario compared to utilitarian problems. Sometimes mistakes obscure subsequent errors. Comprehensive testing is essential to achieve that. The testing has demonstrated that the execution cycle should be completed after the module. In the second place of this part, it was said. The combined screen capture displays the actual execution result. Here, the smooth-working component is also examined, which results in a successful application.

CHAPTER 7

Conclusion

7.1 Conclusion

Since the introduction of Android, the world of portable applications has seen a significant upheaval in this innovation-dependent environment. The fact that Android is an open-source operating system is one of the key causes of this. Android applications are available everywhere, yet our country's women's security framework is seriously lacking. The perspective of conventional frameworks may alter as a result of this computerization framework, without a doubt.

Ladies' security systems cannot be stopped for any reason. So. This project will properly provide the security system for women. People won't have to wait around for a longer period of time or visit the police department directly thanks to this initiative. They can provide their services from where they will be. By adding staggered aspects, we will make this architecture more flexible in the not-too-distant future.

7.2 Further Suggested Work

Inadequacies in the existing system have been discovered. We now use Firebase's real-time database. In the future, the project will run on a dedicated server. After setting up a dedicated server that can hold a lot of data, users claim they have restrictions. While the other two choices are now unavailable, our present site is operational. Future work will focus more on it. The security component will also receive enhanced development.

We are now employing an emergency mechanism in the project. We'll include additional security-based systems in the future. On the other side, this system is an application that runs on the Android Operating System, depriving iOS users of it. We will thus create responsive web applications using this architecture in the near future. Additionally, we will create this system to accommodate a range of consumers' mobile devices. To make the UI more user-friendly, we will also make improvements.

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