

**DIUINFOTIC: AN ANDROID-BASED APPLICATION FOR RETRIEVING  
INFORMATION REGARDING DIU**

**BY**

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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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**DAFFODIL INTERNATIONAL UNIVERSITY**

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**JANUARY 2023**

## APPROVAL

This Project/internship titled “**DIUInfotic: An Android-Based Application for Retrieving Information Regarding DIU**”, submitted by Pritue Mondal, ID No: 191-15-2341 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 January 23, 2023.

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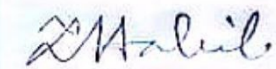


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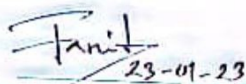


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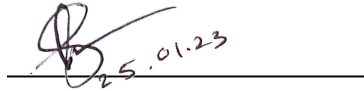
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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **MD. Sabab Zulfiker, Senior Lecturer, 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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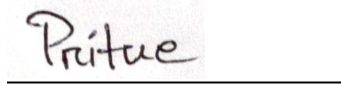
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## **ABSTRACT**

Now a day technology is very useful in everyone life and time. In this time, we lived in a place where people talk to less but give their time for the using mobile device. Google maps, food panda, uber, Facebook, Instagram, Tiktok are very famous thing in our life. If we feel hungry, we are searching food in online using mobile apps like Food Panda, Pathao, and uber eat and many more instant of cooking food. This is the advantage of our technology using knowledge. In this android application I also build a software that help a person to find something in his or her nearby place. This application can give you proper idea about our university circumstance. I added 14 categories like as everyone get the information of our university teacher, admin member, university buses list, which bus is arrived and departure in which time, our food core food store and also give the idea of price as a result, when someone want to know some information related to our university then he just gets it within few clicks. This application also has the facility to check food price of outside area of university and given the process of how to place order. The benefits of mobile applications include ease, quick consumer communication, and online usage. So, I think that this application will help student, teacher, or parents. Because this apps cover many things in varsity area nearby. So, this technological world my application gives better advantage and make life easier.

# TABLE OF CONTENTS

<b>CONTENTS</b>	<b>PAGE</b>
Board of examiners	ii
Declaration	iii
Acknowledgement	iv
Abstract	v
<b>CHAPTER</b>	
<b>CHAPTER 1: INTRODUCTION</b>	<b>1-3</b>
1.1 Introduction	1
1.2 Motivation	2
1.3 Objectives	2
1.4 Excepted Outcomes	3
1.5 Project Management and Finance	3
1.6 Report Layout	3
<b>CHAPTER 2: BACKGROUND</b>	<b>4-5</b>
2.1 Preliminaries/Terminologies	4
2.2 Related Works	4
2.3 Comparative Analysis	5
2.4 Scope of the Problem	5
2.5 Challenges	5
<b>CHAPTER 3: REQUIREMENT SPECIFICATION</b>	<b>6-10</b>

3.1 Business Process Modeling	6-7
3.2 Requirement Collection and Analysis	8
3.3 Use Case Modeling and Description	8-9
3.4 Logical Data Model	10
3.5 Design Requirement	10
<b>CHAPTER 4: DESIGN SPECIFICATION</b>	11-25
4.1 Front End Design	11
4.2 Back-end Design	11-12
4.3 Interaction Design and User Experience (UX)	13-25
4.4 Implementation Requirements	25
<b>CHAPTER 5: IMPLEMENTATION AND TESTING</b>	26-27
5.1 Implementation of Database	26
5.2 Implementation of Front-end Design	26
5.3 Testing Implementation	26
5.4 Test Results and Reports	27
<b>CHAPTER 6: IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY</b>	28-29
6.1 Impact on Society	28
6.2 Impact on Environment	28
6.3 Ethical Aspects	28-29
6.4 Sustainability Plan	29

<b>CHAPTER 7: CONCLUSION AND FUTURE SCOPE</b>	30
7.1 Discussion and Conclusion	30
7.2 Scope for Further Developments	30
<b>REFERENCES</b>	31



## LIST OF FIGURES

<b>FIGURES</b>	<b>PAGE NO</b>
Figure 3.1: Diagram of the project business process model	7
Figure 3.2: Diagram of Use case Model	8
Figure 3.3: Data model for my application	10
Figure 4.1: Home Page	13
Figure 4.2: Login Page	14
Figure 4.3: Register Page	15
Figure 4.4: User Setting UI	16
Figure 4.5: About us page UI	17
Figure 4.6: Bus Info Page	18
Figure 4.7: Bus Route Info Page	19
Figure 4.8: Necessary Info Page	20
Figure 4.9: Hall Info View Page	21
Figure 4.10: Hall Info Details Page	22
Figure 4.11: Shop Name page	23
Figure 4.12: Food Details Page	24
Figure 4.13: Health Info Page	25

## LIST OF TABLES

<b>TABLES</b>	<b>PAGE NO</b>
Table 3.1: Use Case of Login & Sign Up	9
Table 3.2: Use Case of Updates	9
Table 5.1: Testing & Result	27

# CHAPTER 1

## Introduction

### 1.1 Introduction

A website operates on a distant site and communicates with the user via a browser interface. These applications generally combine computer software for database connections, and goal achievement, and provide much, & interaction techniques with consumer coding.

Web applications have 2 key benefits:

1. There's no need for users to install any technology on their devices, and
2. Web browser is a pleasant situation wherein the consumers normally spend a significant amount of their time.

In order to provide a comprehensive, consumer system that includes a broad range of capabilities to fulfill all customer requirements, I examine the objectives before I begin the work. As a business that creates web-based healthcare apps, I put the requirements of end users first by producing software that is not only useful but also has a consumer interface and simple navigation.

The focus of this project is an online healthcare platform from which administrators, patients, customers, staff, and sellers will all gain something. A customer can purchase medication from multiple vendors at once. Customers can purchase medical equipment from vendors with favorable brand reviews, quality products ratings, & affordable costs. Visitors can log in and set up an account while utilizing a health - care service. To begin with, this may be the simple contact information and email login. In order to allow users to sign up in a matter of seconds, they abide even by the finest design standards and only ask for pertinent information. Users can get elevated medical treatment without stepping outside their houses with the use of smart phones. Actual & seamless contact among patients and doctors is made possible through constructed audio and videoconferencing collaboration.

## **1.2 Motivation**

DIUInfotic have been thinking about using smartphone applications to provide top-notch services internationally. DIUInfotic applications have recently gathered a lot of steam because they transform the IT industry. This application allows to everyone to see which is suitable for her or him. Student can able to find low-cost food, hostel seat information, rent nearby house, see nearby hotel food menu and so on.

## **1.3 Objectives**

- An application that will use by million student and other.
- Developed beautiful UI.
- Increase category.
- Online payment information.
- Normal people use it fluently.
- Hostel seat information
- University admin and teacher information
- University bus information
- University importance notice
- Nearby hotel food menu
- Nearby house rental price

#### **1.4 Expected Outcomes**

- Establishing an application that can use for student, faculty, admin, office stuff, hotel manager, so that he can find more thing that his surroundings.
- Time saving for student and apps user person
- Continuously uploading information
- All type necessary information for student basic needs

#### **1.5 Project Management and Finance**

In this application each student can see their selected options to know about food price, bus list, bus route, outside restaurant food price, hostel seat information, nearby house outside to varsity of which price and living details are also available.

#### **1.6 Report Layout**

In this part, I will describe the formation of this report Chapter 1, I've written about motivation, introduction, expected outcome. In chapter 2, I talked about basic information, similar work, relative analysis, Challenges, background. In Chapter 3 I discussed about diagram of project, used technology and tool, data model requirement of project design. In Chapter 4, I represented front end, design back end. UI and UX. In Chapter 5, Implementation of Database, Implementation of Front-end Design, Testing Implementation, Test Results and Reports. In Chapter 6, Social Effect Ethical Effect, Sustainability Plan. In Chapter 7 Discussion and Conclusion, Scope for Further Developments.

## **CHAPTER 2**

### **Background**

#### **2.1 Preliminaries/Terminologies**

In this project, I was used java, for developing I used framework to done powerful feature. In front end I use xml so that my application looks beautiful. If this use interface is beautiful then user will increase more as my thought. Terminologies are-

- Android Studio
- SDK
- API
- Java
- XML
- Wireframe
- Firebase

#### **2.2 Related Works**

- Food Panda
- Doctime
- Pathao
- Goolge maps
- Uber
- Nearby
- Finding

### **2.3 Comparative Analysis**

In our country most of the university student suffering when they go to new place as like when they got admission in any university, they always try to know any information from their senior or any batchmate but in my application, it will help student to get information only few clicks. It also shows them their seats information. So, I think that this help every student to their fast day of university.

### **2.4 Scope of the Problem**

Student who are new don't know many information about this university facilities. These are-

1. Hall Info
2. Residences Info
3. Emergency Info
4. Restaurants Info with food price

### **2.5 Challenges**

1. Analyzing and collecting requirement.
2. Solution analysis
3. Front end designing
4. Back end design
5. Software quality assurance

## **CHAPTER 3**

### **Requirement Specification**

#### **3.1 Business Process Modeling**

My app is created to help all the students so money was not my first priority. But because some essential things are required to continue supporting and updating this project will need some maintenances cost in the future such as cloud storage and if my plan is successful the domain and hosting costs, I've thought of implementing an advertisement business model to maintain the cost of these items. This will not affect student's essential features in any way they'll still have all of the required information for free but if some business owner of shorts wants to promote their product, I'll inspect it and add it to the app for a small cost over monthly or yearly.



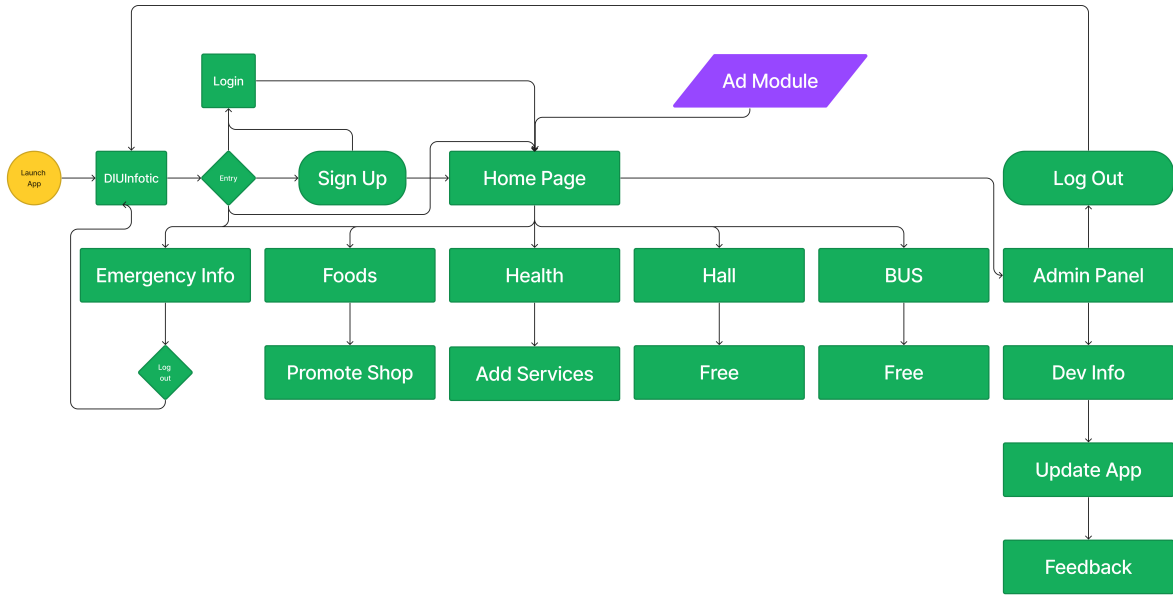


Figure 3.1: Diagram of the project Business Process Model

In figure 3.1, this is the business process model of my app. It has four content table and each one of it is dependent on the prior model.

### 3.2 Requirement Collection and Analysis

- Android Studio
- Firebase
- Java
- XML
- Git
- Bootstrap
- JavaScript

### 3.3 Use Case Modeling and Description

Below is my use case model for my app

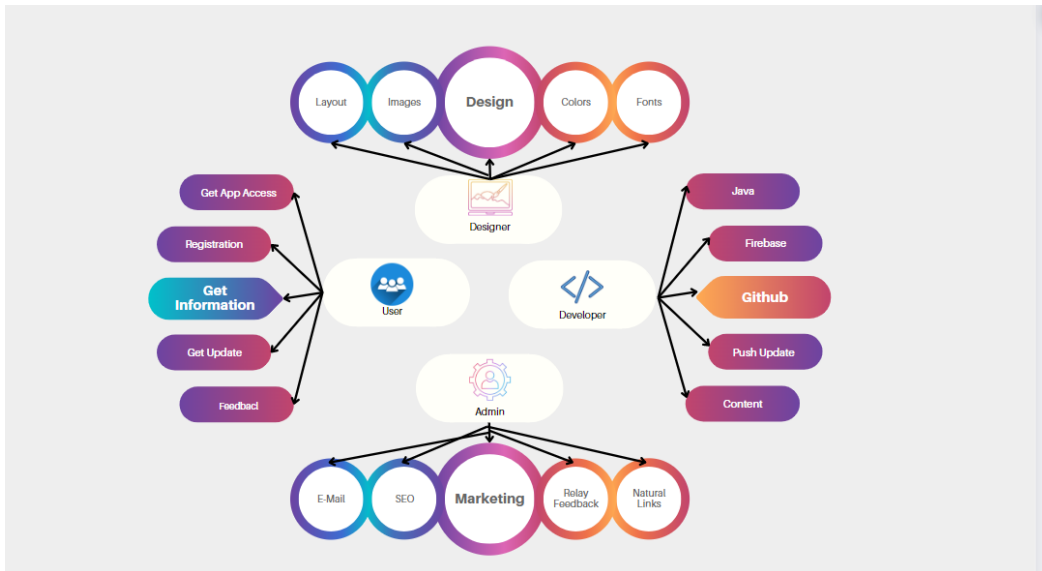


Figure 3.2: Diagram of use case model

## Use Case of Login & Sign up

TABLE 3.1: USE CASE OF LOGIN & SIGN UP

Use Case Name	Opening App
Use Case Details	After entering the app
Pre-Condition	Already a registered user or register first
Actor	user
Post-Condition	Open app home page

## Use Case for Updates

TABLE 3.2: USE CASE OF UPDATES

Use Case Name	Send Updates
Use Case Details	Developer collects the feedback and pushes the package
Pre-Condition	Processed feedback data
Actor	developer
Post-Condition	Upload package

### 3.4 Logical Data Model

In order to store my data, I've used local host local machine. In this case, the user's android device and for login/registration info I've used firebase's free account. Lastly, for feedback and updates I've used google form and google drive.

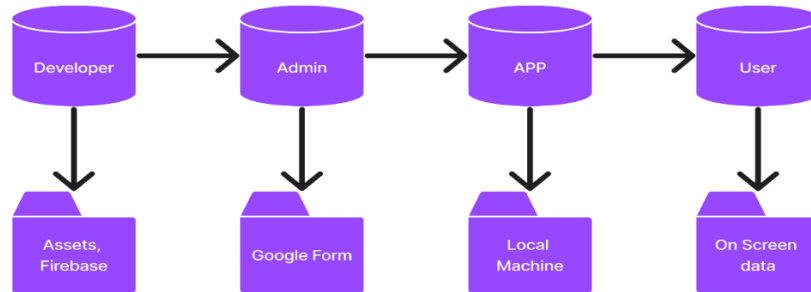


Figure 3.3: Data model for my application

In figure 2 represent the data model of our application.

### 3.5 Design Requirement

I used android studio that have more easier feature to install and upgrade project and help migration easier. I utilized the open-source cloud relational database management system firebase for databases. Xml is what we utilize for the front-end. It aids in the development of a responsive design. I used the Java based android framework for my project's backend that enables us to easily construct dynamic interfaces without having to leave the comfort of Java. It's a library that makes it simple to create contemporary, responsive, dynamic interfaces using the tempting language Java Blade. I have utilized several different Java packages to help us build different functionalities for our project. Moreover, we utilized Xml to carry out some operations.

## CHAPTER 4

### Design Specification

#### 4.1 Front-End Design

For this kind of information related platform, the front-end is crucial to attracting more user. I have therefore placed a lot of emphasis on the front-end. I made an effort to make the entire project responsive so that it could be used on any device and increase our consumer base. A markup language and file format for storing, sending, and recreating arbitrary data is called Extensible Markup Language (XML). It outlines a set of guidelines for document encoding in a way that is both machine- and human-readable. The XML 1.0 Specification, published in 1998 by the World Wide Web Consortium, along with several other related specifications—all of which are free, open standards—define XML. The simplicity, generality, and Internet-wide usability of XML are prioritized in its design objectives. It is a textual data format with robust support for many human languages thanks to Unicode. XML was created with documents in mind, but it is also frequently used to represent other types of data structures, including those used in online services. There are numerous schema systems to help define XML-based languages, and numerous application programming interfaces (APIs) have been created by programmers to help with XML data processing.

#### 4.2 Back-End Design

For the back end I used Java programming language in my project, this is android based work java is the one of the best programming and high-level programming language. In order to have as few implementation dependencies as feasible, Java is a high-level, class-based, object-oriented programming language. In other words, compiled Java code can run on any platforms that accept Java without the need to recompile. It is a general-purpose programming language designed to enable programmers to write once, run anywhere (WORA). Regardless of the underlying computer architecture, Java applications are often compiled to bytecode that can run on any Java virtual machine (JVM). Although Java has fewer low-level features than either C or C++, it has syntax that is similar to each of them. Unlike most traditional compiled languages, the Java runtime has dynamic capabilities

as of 2019, Java was one of the most widely used programming languages, especially for client-server web applications. James Gosling created Java at Sun Microsystems in the beginning. It became a fundamental part of Sun Microsystems' Java platform in May 1995. Sun first made available under proprietary licenses the original and reference architecture Java compilers, virtualization software, and class libraries. Sun had relicensed the majority of its Java programming under the GPL-2.0-only license as of May 2007 in order to comply with the requirements of the Java Programming Language. Although Oracle provides its own Access point Java Virtual Machine, the OpenJDK JVM, which is a free open-source program and is the default JVM for practically all Linux distributions, is the official reference implementation. I picked this framework since it is a highly developed web framework with a sizable developer community, making it very easy to find a solution to any issue.

### 4.3 Interaction Design and User Experience (UX)

When a user enters my app, he or she first see the login page if he didn't login. If he didn't create account he or she need to register.

When an already logged in user enters the app DIUInfotic then he finds this page.



Figure 4.1: Home page

## Login Page

In this page, login UI is used when a user goes to login after launching the app. There are three cases- login, sign up, emergency login. If the user is in urgent need for medical care or similar, they can directly access the page without any login info.

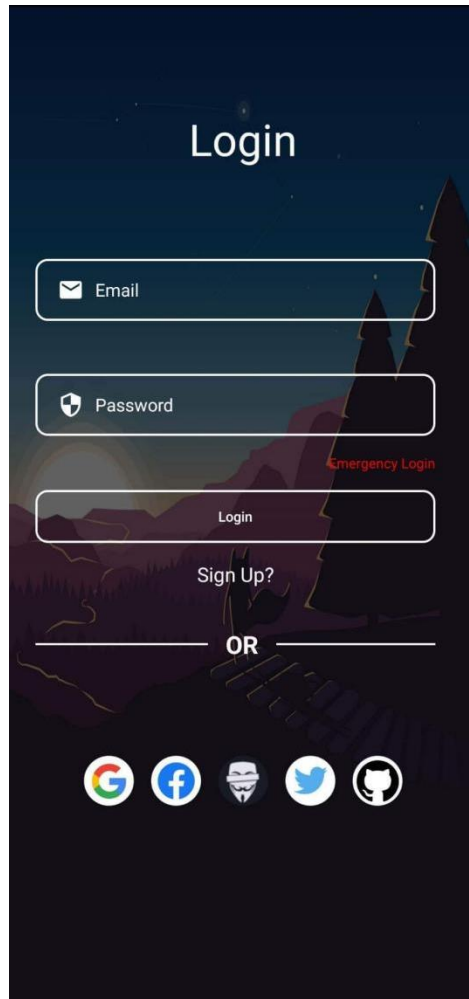
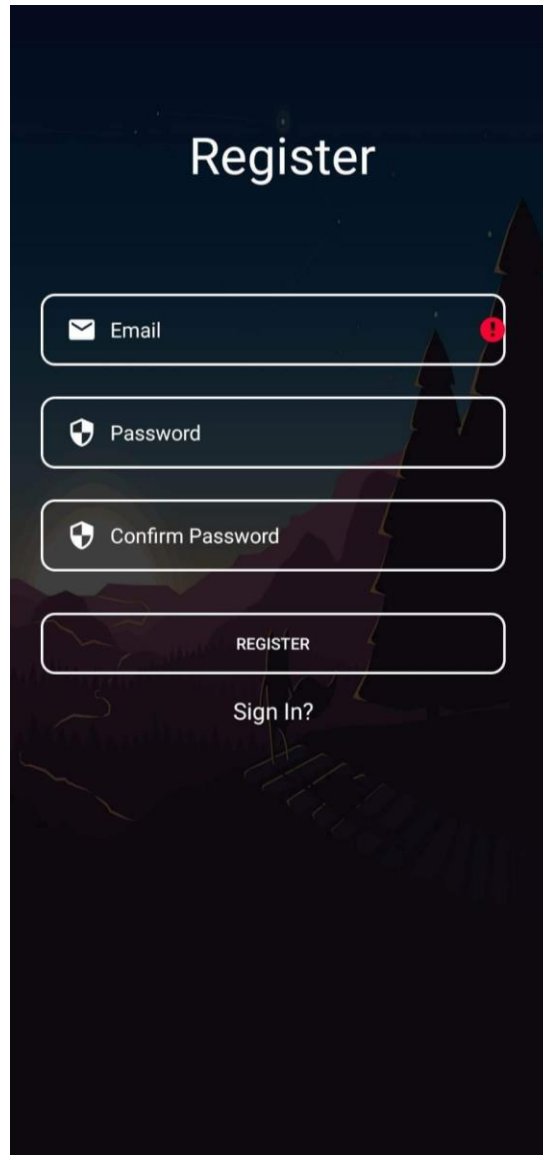


Figure 4.2: Login Page



## Register Page

In this page, this is the registration UI when a user goes to register then this page will appear. In registration page the user will be asked for some required info in order to register also a sign in prompt if they mistakenly clicked the register button.



Register

Email

Password

Confirm Password

REGISTER

Sign In?

Figure 4.3: Register Page

## User Setting Page

Here they will see developer info as well as getting updates and sending feedback or issues regarding the app.

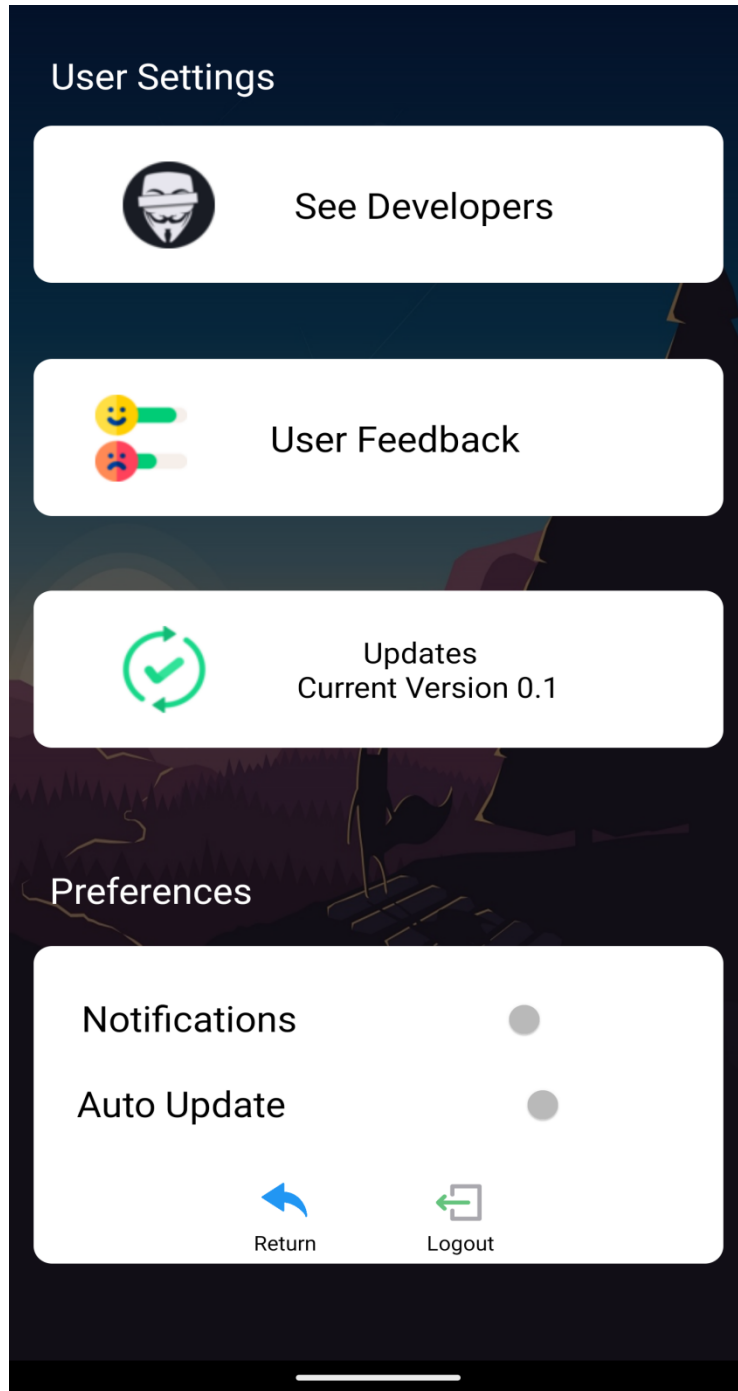


Figure 4.4: User Setting UI

## About Us Page

In this page, user can more learn about the developer and contact info.

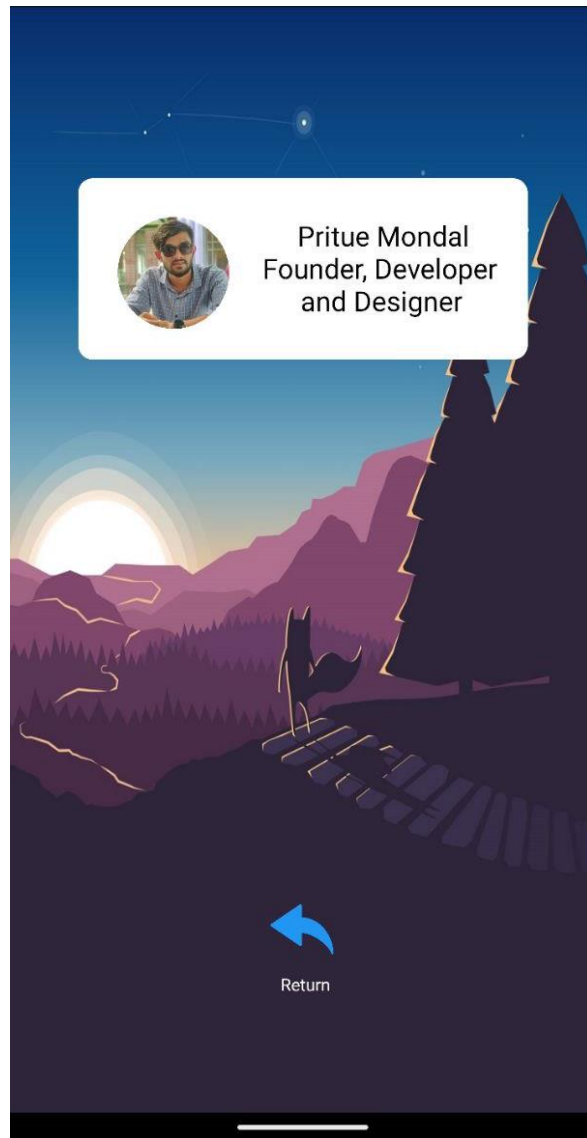


Figure 4.5: About us page UI

## Bus Information Page

In this page, when user need to know about bus of DIU then this page will appear.

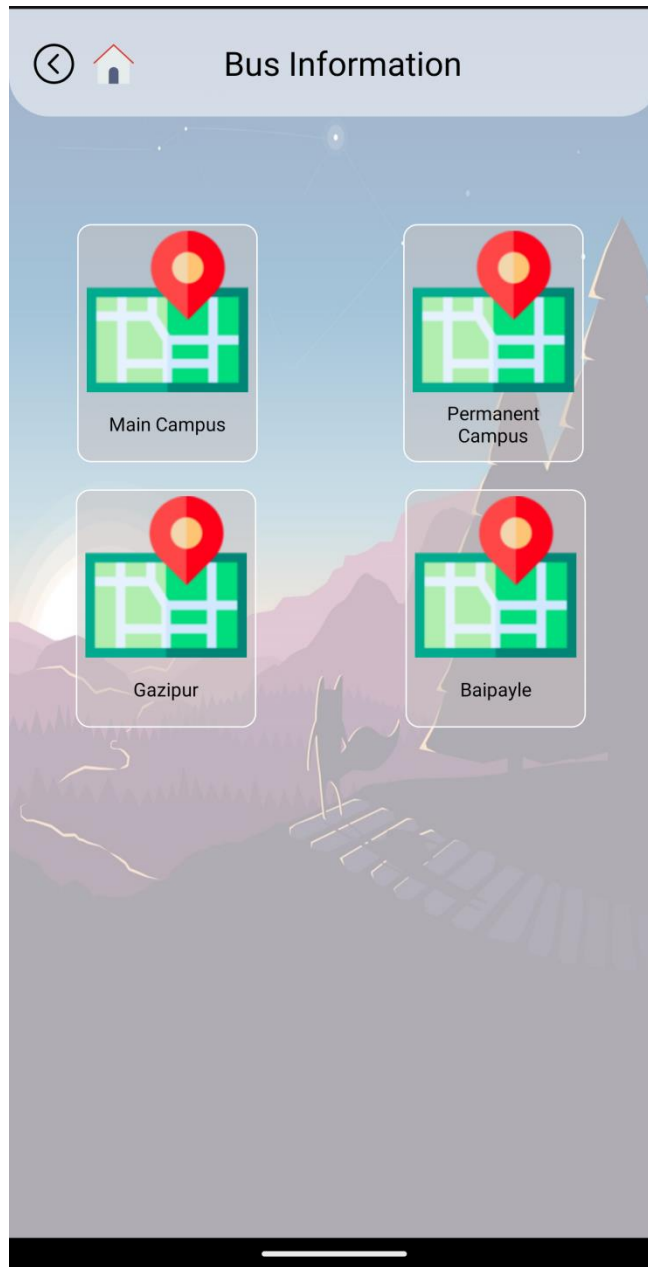


Figure 4.6: Bus Info Page

## Route Information Page

In this page, when user is searching about bus route then he or she will find every information related to bus route will appear here

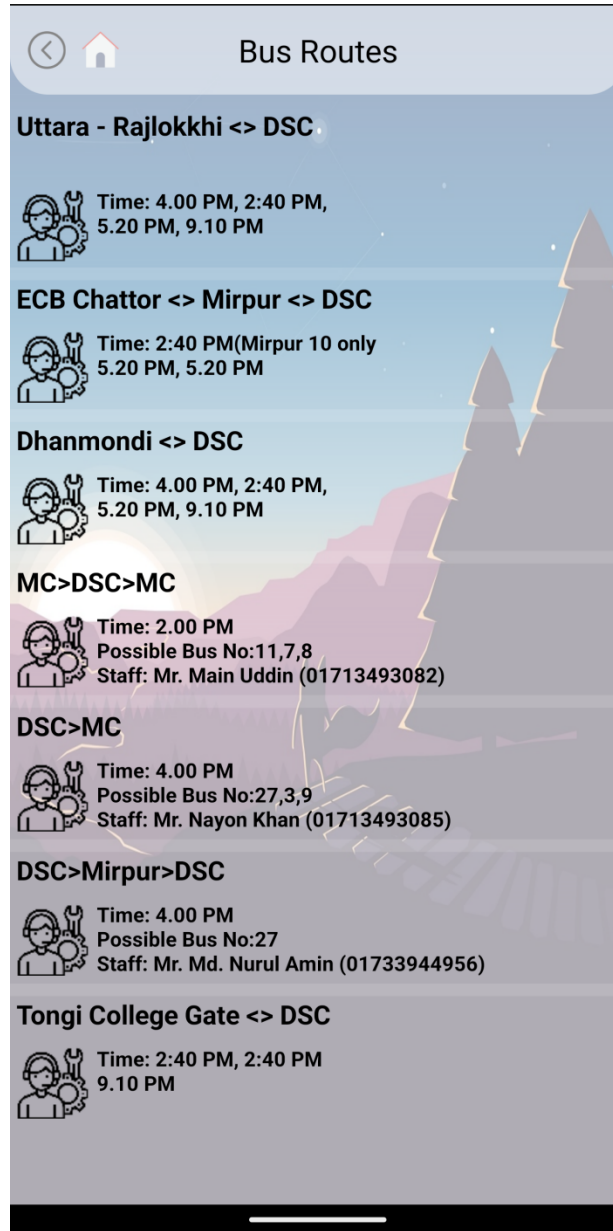


Figure 4.7: Bus Route Info Page

## Necessary Information Page

This page is built for to give basic information of police, ambulance, fire service contract number and proper information so that they have idea to any emergency

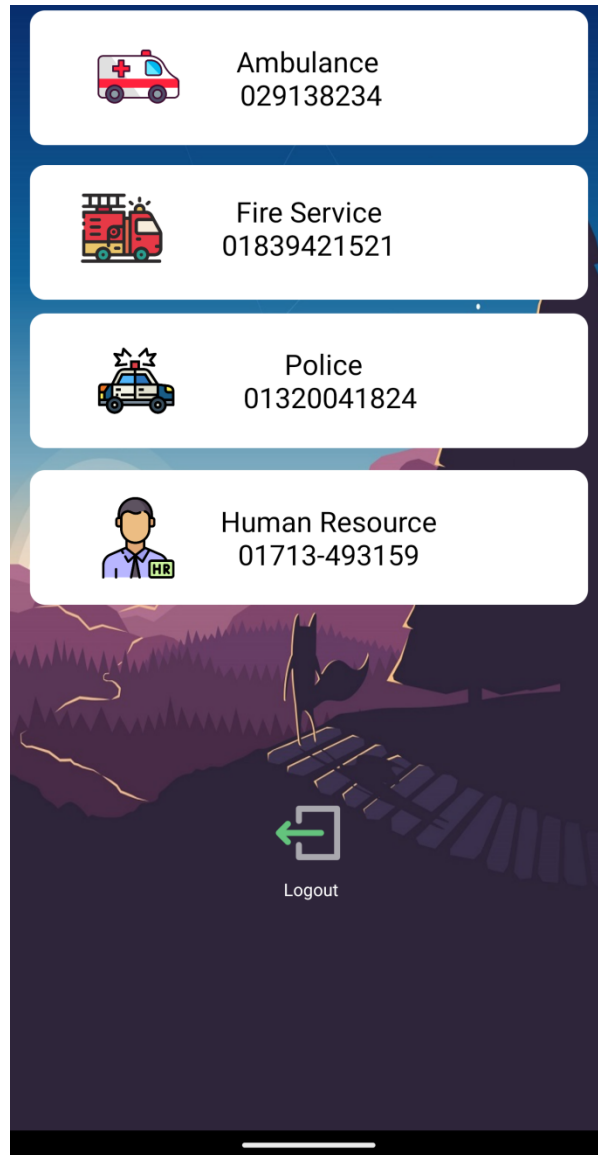


Figure 4.8: Necessary Info Page

## Hall Information Page

In this page, when user is searching about hall information then he or she will find every information related to hall will appear here



Figure 4.9: Hall Info View Page

## Hall Information Details Page

In this page, when user is searching about hall information then he or she will find every information related to hall will appear here



Figure 4.10: Hall Info Details Page



## Shop Name Page

In this page total listed shop will show here

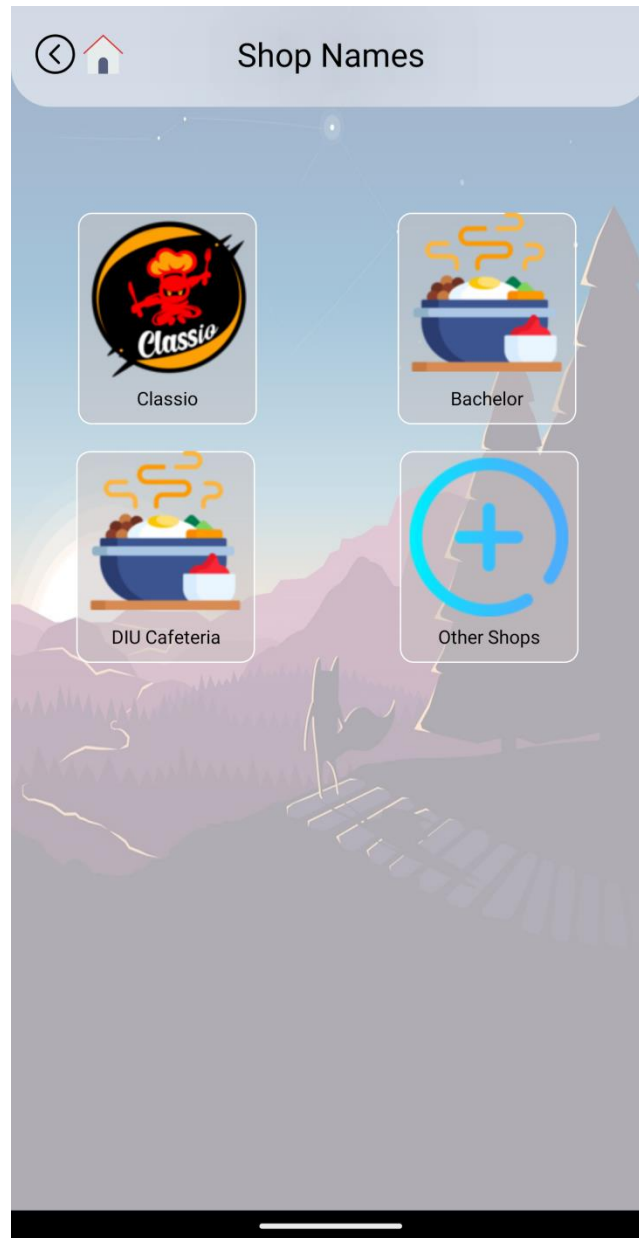


Figure 4.11: Shop Name page

## Food Details Page

In this page total food listed in shop details information will show here

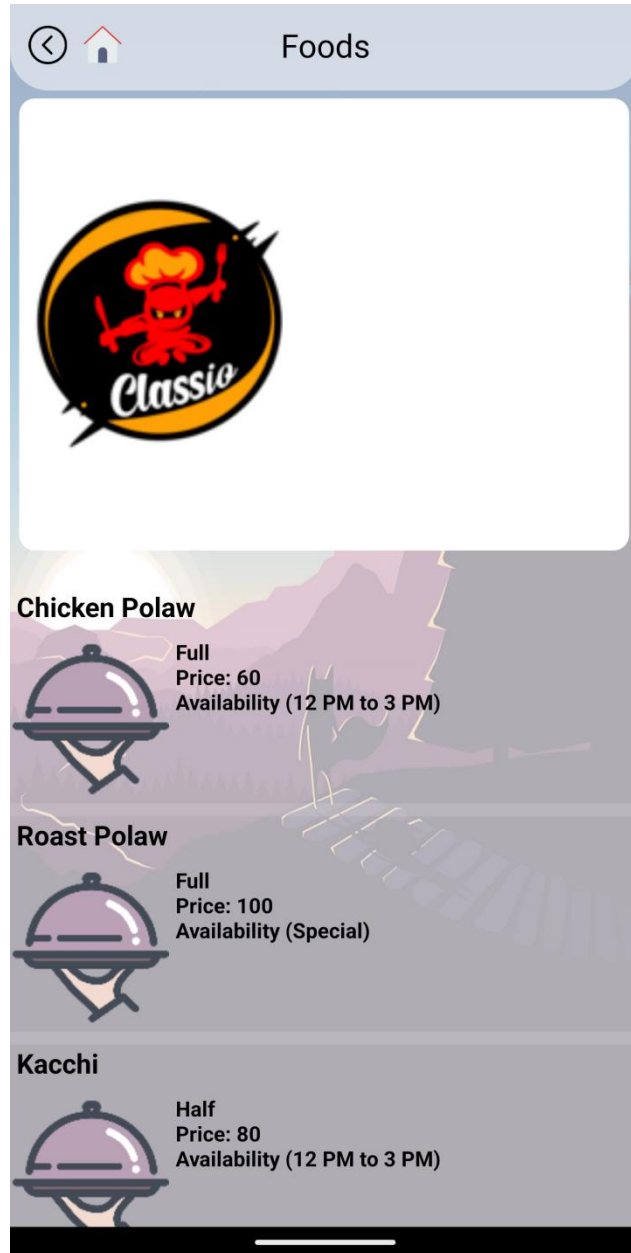


Figure 4.12: Food Details Page

## Health Information Details Page:

In this page Medical related details information will show here

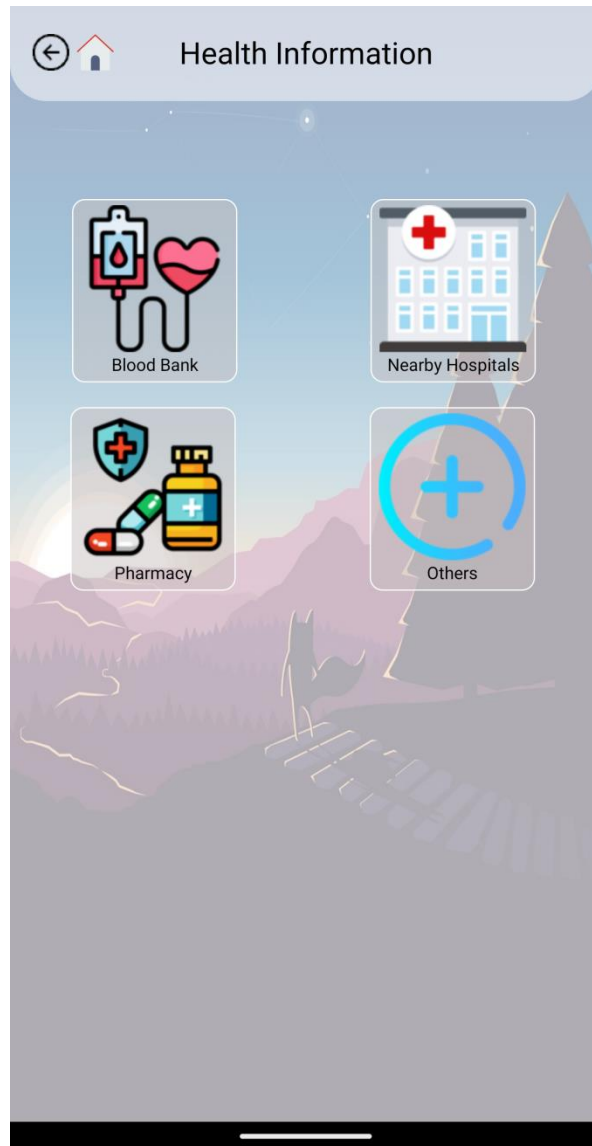


Figure 4.13: Health Info Page

## 4.4 Implementation Requirements

We used firebase to implement login and sign up, java as primary programming language and xml as front-end language.

## **CHAPTER 5**

### **Implementation and Testing**

#### **5.1 Implementation of Database**

I used the google firebase to implement the database from online could server.

#### **5.2 Implementation of Front-End Design**

I used XML to implement front end design. XML (Extensible Markup Language) is a standard for representing and structuring data that is widely used on the Internet. It was first published in 1998 by the World Wide Web Consortium (W3C) and has since become one of the most popular formats for storing and exchanging data. XML is simple, flexible, and supports a wide range of human languages thanks to its use of Unicode. It is primarily used for documents, but can also be used to represent other types of data structures, such as those used in online services. There are various schema systems available for defining XML-based languages and APIs that have been developed to help with processing XML data. All of these resources are free and open to use.

#### **5.3 Testing Implementation**

Test implementation and execution involves the use of test procedures or scripts, combining test cases in a specific order, and setting up the environment for testing. This process involves several methods-

- White Box method
- Black Box Testing
- Gray Box method

## 5.4 Test Results and Reports

During this phase, we implemented multiple methods to test our project through multiple runs of each test. Our main focus was on the virtual camera and scene, both of which were successful.

TABLE 5.1: TEST  
RESULT

Test Case	Test Input	Expected Outcome	Obtained Outcome	Pass/Fail	Testing Period
Opened App	Open Application	Launched with login page	Launched with login page	Pass	06.01.2023
All activity	Navigate activities	All activity present	All activity present	Pass	06.01.2023
Registration	Register with account	Registered account	Registered account	Pass	06.01.2023
Button Function	Press button	Move toward new activity	Move toward new activity	Pass	06.01.2023

## **CHAPTER 6**

### **Impact on Society, Environment and Sustainability**

#### **6.1 Impact on Society**

Now a day every one search information from any other source or Facebook but If he or she can use my application he or she can find better information that was not find in Facebook. I take many times to collect this information and also, I think this app will give advantage in society. Consumers no longer need to receive letters via mail from doctors informing them of upcoming consultations & testing. Without being required to make any expenditures, small- and medium-sized businesses can easily run their operations from this website. I think the idea will be extraordinarily beneficial to entrepreneurs, in addition to employees, physicians, student, hall management, admin, teacher, and the community in general.

#### **6.2 Impact on Environment**

Our project centers around the development of apps, which have a minimal direct impact on the environment. In fact, the carbon footprint of our project is much smaller than activities such as eating beef or burning coal. Therefore, we can confidently assert that our project will not harm the environment in any lasting way. We are committed to operating in a sustainable and responsible manner, and we take steps to ensure that our project has as little environmental impact as possible. We recognize that the health of the planet is vital to the well-being of all living things, and we are committed to doing our part to protect it.

#### **6.3 Ethical Aspects**

Our app has been designed to respect the privacy of its users and to operate without infringing on any human rights. As a result, it does not require any personal information in order to function properly. This means that you can use the app without worrying about the risk of your personal data being collected or misused. Additionally, the app has been carefully developed to ensure that it does not pose any ethical dilemmas. It does not engage in any practices that could be considered unethical or that would violate the rights of its

users. Overall, our app is a safe and secure way to access the features and functions it offers, without any concerns about privacy or ethics.

#### **6.4 Sustainability Plan**

Communication creates links, makes it available, improves health and fosters equity. These are the advantages of sustainability in every sector. Information lowered operation expenses & power expenditures, improved name recognition or goodwill Lower emissions impact and ecological consequences, increased customer and public confidence, and greater staff happiness and retention. User will quickly find what they're looking for because there will be a wide variety of Sustainable merchants and products here. The vendors that are unaware of advertising methods or methods for sell a item to the common person may profit from this endeavor. I'll simplify the product delivery process for customers. Customers will easily identify what they're seeking for thanks to the large selection of Responsible vendors & goods present.

## **CHAPTER 7**

### **Conclusion and Future Scope**

#### **7.1 Discussion and Conclusion**

I have included in this project all necessary components for an online searching cluster app. It will be highly beneficial to everyone. constantly posting information on university surrounding area and other information knowledge so that student will take good care of themselves. Food delivery information & online payment information also including mobile banking and card payments are available restaurant re details in my application, which makes us smarter. Here student and also visitor will find contact number of bus responsible person, healthcare responsible person, emergency condition related contact number everything was listed in my application. This significantly boosts the application's effectiveness. Therefore, this app is fantastic for people because it can simplify their lives and also save student time.

#### **7.2 Scope for Further Developments**

In the future, I might add new features to improve user experience such as rating system booking system and feature request for the app and also take sponsorship to promote their product.



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