

**ADMISSION HELPDESK**

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This Project 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 “**Admission Helpdesk**”, submitted by Md. Arif Ahmed, ID: 151-15-5110, Shammi Akter Shahinoor, ID: 151-15-4970, Renu Akhter, ID: 151-15-5096 and Mst. Tanha Tasnim, ID: 151-15-5420 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 10th December 2018.

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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Moushumi Zaman Bonny, 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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## **ABSTRACT**

Admission test is not just an examination now a days, moreover it turns into war. Admission war. Starting from the school period till the job, in every sector we need to prove ourselves; In all cases merit recognition is required. And now the candidate is more than the opportunity. So, it's hard to be harder day by day. Keeping this situation in mind many coaching centers has been developed. As the result of Internet, we can get these facilities sitting in the home. Not only study, but also any admission related notices are getting published through internet. Each organization release their circular separately. So, it makes so much confusion and it's also a time-consuming process to find each and every circular with proper update.

So, to abstain this kind of trouble, we have taken a plan that will combine all types of circulars to prevent waste of time. It will give any updated information such as admission date, registration date, admission form, examination routine or seat and so on. There is also some website to give these kinds of information but all are not so well decorated and established. So, we are trying to develop such kind of website which will not only gives notification about admission, but also it will give a good guidance. Alongside to make the opportunities more trustful and also digitized, we also provide an android app.

## TABLE OF CONTENTS

<b>CONTENTS</b>	<b>PAGE</b>
Board of examiners	ii
Declaration	iii
Acknowledgement	iv
Abstract	v
List of Figures	ix-x
List of Tables	xi
<b>CHAPTER 1: Introduction</b>	<b>1-3</b>
1.1 Introduction	1
1.2 Motivation	1-2
1.3 Objectives	2
1.4 Expected Outcome	2
1.5 Report Layout	3
<b>CHAPTER 2: Background</b>	<b>4-8</b>
2.1 Introduction (Proposed System)	4
2.2 Related Works	4-6
2.3 Comparative Studies	6-7
2.4 Scope of the Problem	7
2.5 Challenges	8

**CHAPTER 3: Requirement Specification** **9-16**

3.1	Business Process Modelling	9-10
3.2	Requirement Collection and Analysis	10
3.2.1	Functional Requirement	10
3.2.2	Non-functional Requirement	10
3.3	Use Case Modelling and Description	10-13
3.4	Logical Data Analysis	13-14
3.4.1	E-R Diagram of proposed system	14-15
3.5	Design Requirements	15-16

**CHAPTER 4: Design Specification** **17-22**

4.1	Front-end Design	17-18
4.2	Back-end Design	18-19
4.3	Interaction Design and UX	20
4.4	Implementation of Requirements	20-21
4.4.1	Basic Android Overview	21
4.4.2	Android Version	21-22

**CHAPTER 5: Implementation and Testing** **23-47**

5.1	Implementation of Database	23-25
5.2	Implementation of Front-end Design	25
5.2.1	Website Front-end Design	26-33
5.2.2	Android Application Front-end Design	34-38
5.2.3	Admin Panel	39-41
5.3	Implementation and Interaction	41
5.4	Testing Implementation	41-47
5.5	Test Results and Reports	47-48

**CHAPTER 6: Conclusion and Future Scope** **49**

6.1	Discussion and Conclusion	49
6.2	Limitations	49
6.3	Scope for Further Development	49

**References** **50-52**

**Appendix** **53-58**



## LIST OF FIGURES

2.1	Admission War	5
2.2	Resultsinbd.com	5
2.3	eduicon.com	6
3.1	Waterfall Model	9
3.2	Use case Diagram of Admission Helpdesk	11
3.3	Data flow Diagram	14
3.4	E-R Diagram of Admission Helpdesk	15
5.1	Table list in Database	23
5.2	Group list in Database	23
5.3	Database of Images	24
5.4	University list in Database	24
5.5	Unit list	25
5.6	Home page of Admission Helpdesk for public users	26
5.7	Dhaka University Information	27
5.8	Jahangirnagar University Information	28
5.9	Job circular	29
5.10	Login Page of Admission Helpdesk	29
5.11	Homepage after login	30
5.12	University list for respective GPA	30
5.13	Unit of selected University	31
5.14	Unit details of selected University	31
5.15	Model test system	32
5.16	Question paper for selected subject	32
5.17	Subjects list of all university	33

5.18	Update Picture of User	33
5.19	Homepage of Android App	34
5.20	Registration page of Android App	34
5.21	Details of Dhaka University	35
5.22	Details of Jahangirnagar University	36
5.23	Login page of Android App	37
5.24	Menu Button	37
5.25	University list Details of Unit	38
5.26	Details of Unit	38
5.27	Group list of Admin panel	39
5.28	University list of admin panel	39
5.29	Unit list of Admin	40
5.30	Notification list of admin panel	40
5.31	Question list of admin panel	41

## LIST OF TABLES

2.1	Compassion between related works.	07
3.1	Description of Use Case Diagram of Public Users	11
3.2:	Description of Use Case Diagram of Registered Users	11
3.3:	Description of Use Case Diagram of Admin	12
5.1:	Test case 01	42
5.2:	Test case 02	42
5.3:	Test case 03	42
5.4:	Test case 04	43
5.5:	Test case 05	43
5.6:	Test case 06	43
5.7:	Test case 07	44
5.8:	Test case 08	44
5.9:	Test case 09	44
5.10:	Test case 10	45
5.11:	Test case 11	45
5.12:	Test case 12	45
5.13:	Test case 13	46
5.14:	Test case 14	46
5.15:	Test case 15	46
5.16:	Test case 16	47
5.17:	Test case 17	47

# CHAPTER 1

## Introduction

### 1.1 Introduction

Admission Helpdesk provides a web-based application simultaneously a mobile app what deal with various information and notice about any admission test in Bangladesh. In recent period admission test is one kind of war for a better future. Who won the battle of admission, he got the chance to study in his desire institution or organization. So, it a serious matter to get a good result on admission examination. And to reach the goal a student work hard and maintain each second correctly. Now, everything is online-oriented [1], [2]. All institute release their circular or any notice online. It takes many times to gather all information at the same time of different institutes. Keeping in mind the inconvenience, this website has been built and it is providing not only the information of admission examination but also giving an opportunity to give online model test in different subjects. This website or app provides updates of admission notices of public universities, private universities and job Circulars also. At the same time a user can be logged in the website and can give model test of his selected subjects. There is another facility which will help a student more. When a user opens his own id then he has to input his current GPA to the form. That information stored in database and when he will search university for Admission test, he will see only these universities list where he can apply according to his GPA. As we know in our country all university fixed a specific GPA limit to apply for admission; if a student cannot achieve that GPA then he cannot apply that university. So, it is so hard to find university according to their demand. But our system will make this easy for a student so that they can easily find their applicable university and can be prepare for these universities examination.

### 1.2 Motivation

Web application is a medium where many people can be connected separately at the same time. And android app is another stage to get every opportunity in a moment. Today all things around us is online-oriented. So, it is quite natural that peoples are connected through internet and search expected solution of their problem. And people want a well decorated and complete site which provides many information in a single website. In our country there is few websites which

provides such kind of information and these are not complete with information. So, our target is to fulfill that gap between user and institution by giving the complete information and updates of admission test and make it easy to find any query about it for a user [3], [4].

### **1.3 Objectives**

It is said that today's work is responsible for the consequences of the coming day. And it is most commonly observed in admission test. Who work hard on this period he got success in future by getting desired result. When the exams come forward, it is necessary to know all the exams notice and updated information. But to collect all information from different places, students waste their valuable time. To prevent this and help a admission student, this web application provides all information in a complete website and it gives a chance to participate in online model test to make himself ready for upcoming admission test. Student will get notification of upcoming exam routine [5]. Not only that, we also provide an android app to make the process so easy and digital for a user.

### **1.4 Expected Outcome**

All future projects are intended to simplify the tasks. Similarly, we want to make a website and app which will simplify the adversity of admission student. If we try to search any information about university admission or job admission news, we have to search different portal or websites for different universities or job circular. We don't have a complete and instinctive website to find all news from one periphery. So, it creates trouble and waste time and sometimes students lost their patience to find proper information about this aspect. And it is very common to skip some important news unknowingly. Besides, students of different department can give model test and judge themselves if they are ready or not. There will be some model question of previous year examination of different sectors. Anyone can find routine, seat number, examination center and all other things what a institution has been published. Not only that, our app also will remind the student by sending notification about any test information.

## **1.5 Report Layout**

The present Study has divided into six chapters where the very Chapter 1, we have segmented with the introduction, objectives, motivation and expected outcomes. In Chapter 2, Background of this project, related works, comparative studies, problem and challenges of this project has assembled. In Chapter 3, we have focused on Requirement Specification where Business process modeling, Requirement collection and analysis, use case modeling and description and logical data model. In Chapter 4, we discussed about design specification for Admission Helpdesk website and mobile app in Bangladesh is introduced. In Chapter 5, we discussed about how we implement this system and it's testing. Chapter 6 is about conclusion and our future Scope what we will do in next.

## **CHAPTER 2**

### **Background**

#### **2.1 Introduction**

This is a web-application for those determined students are in a tentative stage where he is striving to build a desired future for him. This is a simple effort of Admission Helpdesk team to help them by gathering all important and effective information for them which will reduce their suffering for gathering all different news of different universities together and make them one step toward success. By this website a student can make them free from the tension of keeping update about admission related news and can give their attention to the study in better way. Because this website will make this easy and effective to them.

Now the world is unrivaled in technology. Everyone is well known about smart phone and use it to make life better. So, it is pretty common case to keep every small to smallest thing in the mobile phone of his pocket. To fulfill this goal, it is our other endeavor to make the site more-lively by making a mobile app for student what will update students in the same way this website can.

#### **2.2 Related work**

There are some websites which deal with the news of admission test. There is a website named “Admission War” which provide the recent news about public university examination. They also provide question paper of previous test and some PDF book which may help students. It also gives news about national universities and School and college admission test news. But there is no log in system and no need to sign into website as it is a open website and it doesn’t carry any information of user. Here is a sample image of this website [6].



Figure 2.1: Admission War

Here is another website which also deals with the news of admission in Bangladesh. The name of website is “Resultinbd.net” [7]. This provides recent news about admission test but it is not secure website for users.

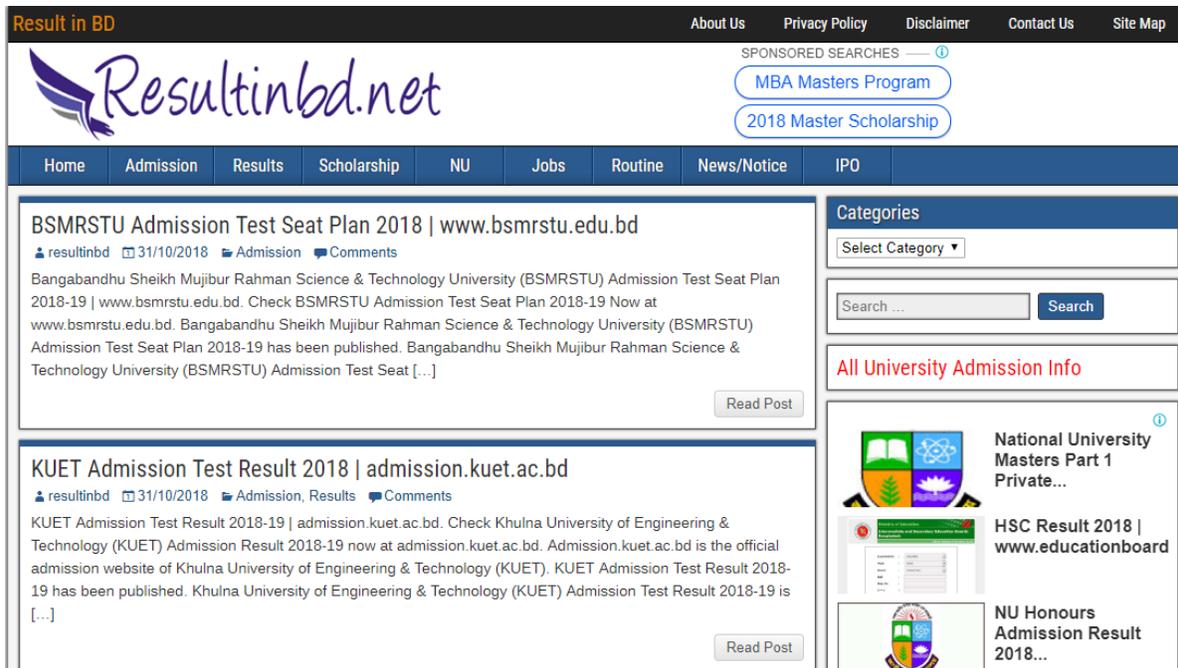


Figure 2.2: Resultsinbd.com



The other website “eduicon.com” is also a admission related site but it is also not secure for user. It also provides news of admission test [8].

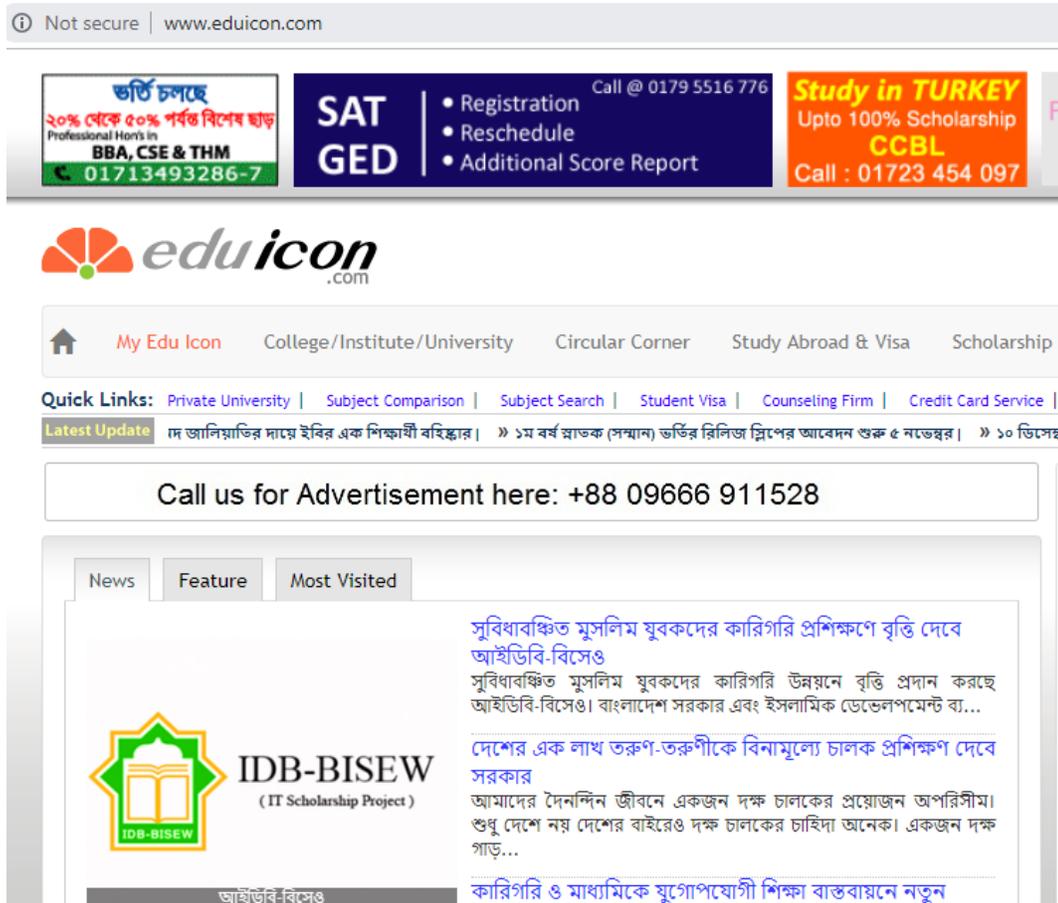


Figure 2.3: eduicon.com

### 2.3 Comparative Studies

Our implemented website and app both are different and introduce something new to the users. Our website has a secure login system by which user can directly connect with the website and our app provides the notification in time to the user. If we compare our project to the others it will be cleared where is the differences. The relative comparison among these works shown in the Table 2.1. By this table we can define how our work is different from others and to understand this we compare it with various part.

Table 2.1: Comparison between related works

<b>Case</b>	<b>Admission War</b>	<b>Resultinbd.com</b>	<b>Eduicon.com</b>	<b>Admission Helpdesk</b>
<b>Registration/ Login Process</b>	No	No	No	Yes
<b>Updated News</b>	Yes	Yes	Yes	Yes
<b>Notification</b>	No	No	No	Yes
<b>Job Circular</b>	No	Yes	Yes	Yes
<b>Universities News</b>	Yes	Yes	Yes	Yes
<b>Security</b>	Yes	No	No	Yes

## 2.4 Scope of problem

We did this project just and just to help the students. So, that they don't have to kill their valuable time to collect information and other related things. The first and most important problem can be if a student doesn't have the knowledge to blows or the basic to run a web or app then this project will be nothing for him/her. Lastly this entire process is available only when they have the internet connection so this could be a problem too. If we are not work properly to make this application responsive then there has some problem on mobile version or different type of devices. Besides, to give model test in different coaching center is expensive, some student cannot effort that cost. So, it is a great opportunity for a student who cannot effort the expensive coaching center's model test procedure. By our model test system, he can ascertain himself that if he is ready or how much he make prepare himself for the admission war. Our system also provides the job-related News. So, this site is not only useful for undergraduate students but also it is for graduated student who searching job. Over and above, check the updated notification all time is also a disturbance, so we also make it easy for them. In our system, if there is any new notice it will notify user by a notification system.

## 2.5 Challenges

- Provide actual and hundred percent real information
- Be update all the time
- Make the site user friendly as well as dynamic
- Connect the android application and website
- Maintenance
- Make proper model question for students
- Gather data

## CHAPTER 3

### Requirement Specification

#### 3.1 Business Process Modeling

This project contains a specific model for the Admission Helpdesk system, including all the models used to specify and realize the system. This model addresses the development of the system that allows users to Log in the system by their own account. It is provided as a UML example covering the analysis of the context and processes, and the design and deployment of a possible implementation. The goal is to show the power UML brings to analyzing and designing a robust system that corresponds to the initial requirements.

Here we used waterfall model. The waterfall model is the first process model which refers as linear-sequential life cycle model. It is a sequential software development process, in which progress is seen as flowing steadily downwards through the phases of Conception, Initiation, Analysis, Design, Construction, Testing and Maintenance. Here is a figure 3.1 which will describe waterfall model.

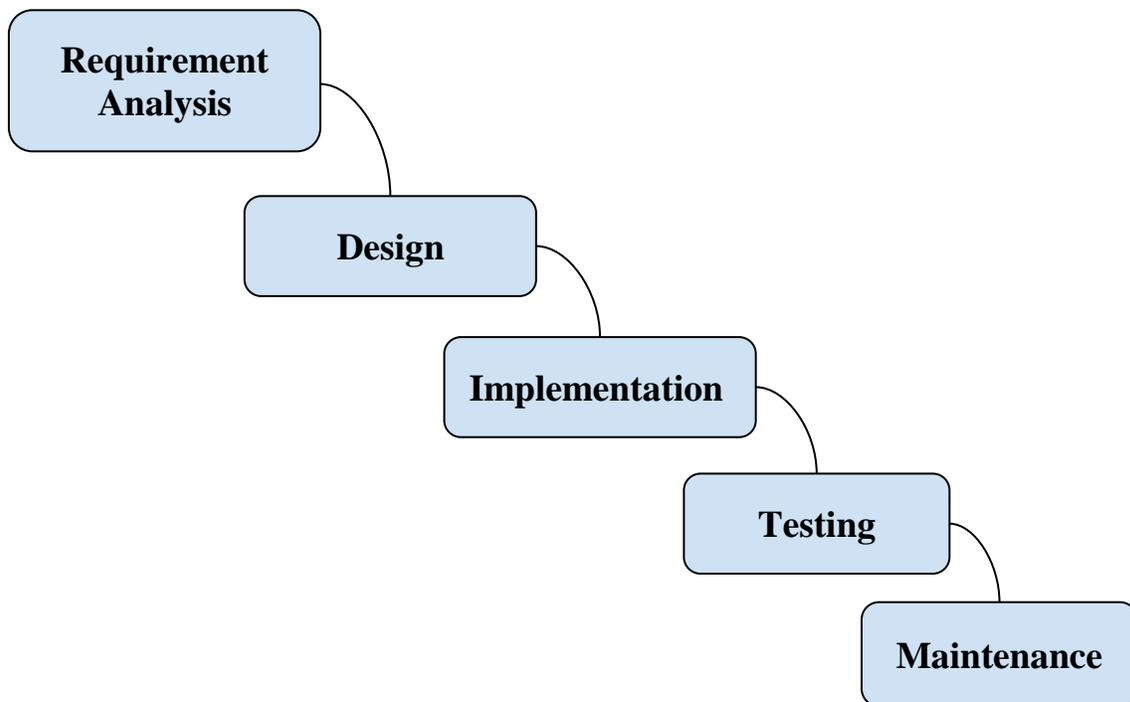


Figure 3.1: Waterfall Model

To apply this model, the process of the work divided into some steps. It found the requirements first, then design the system and implement the method. Then it passes through a testing and then it's the time to maintain the system as well.

### **3.2 Requirement Collection and Analysis**

Since we are developed a mobile app as well as website so requirement collection and analysis take one of the primary Phase for this development. There is two kind of development. One is functional requirement and another is non-functional requirement. Functional requirement is a function of a system which control the behavior between input and output of the system. It specifies particular results of a system. On the other hand, non-functional requirement is criteria that refers the operation of a system.

#### **3.2.1 Functional Requirement**

In our application, it has many functional requirements. Such as our system has a registration panel where user can register with an email address. There is a login section, user profile. By logging in user can access the system and modify the allocated portion for him. There is also separated admin panel which is totally separated from the user panel.

#### **3.2.2 Non-Functional Requirement**

Non-functional requirements of this application are made this system more efficient, its consuming memory, optimize performance, doing smooth operation and most important part the User Interface (UI) should be user friendly and easy to operate and at the same time it need to be attractive to user.

### **3.3 Use Case Modeling and Description**

Use case diagram demonstrates different ways how user will interact the system to accomplish the goal. It represents some actions which enable a user to visualize the different types of roles in a system and how those roles interact with the system. Use case diagram has four objects. Actor, use case, system and package. Among them actor and use case play vital role. Actor is an entity which performs a role, this could be a person, an organization or an external system. Use Case

represents actions, system defines the scope of the use case and package is the optional element that is used in complex diagrams. In our project there is also a use case diagram shown in figure 3.2 which describes our system's actions.

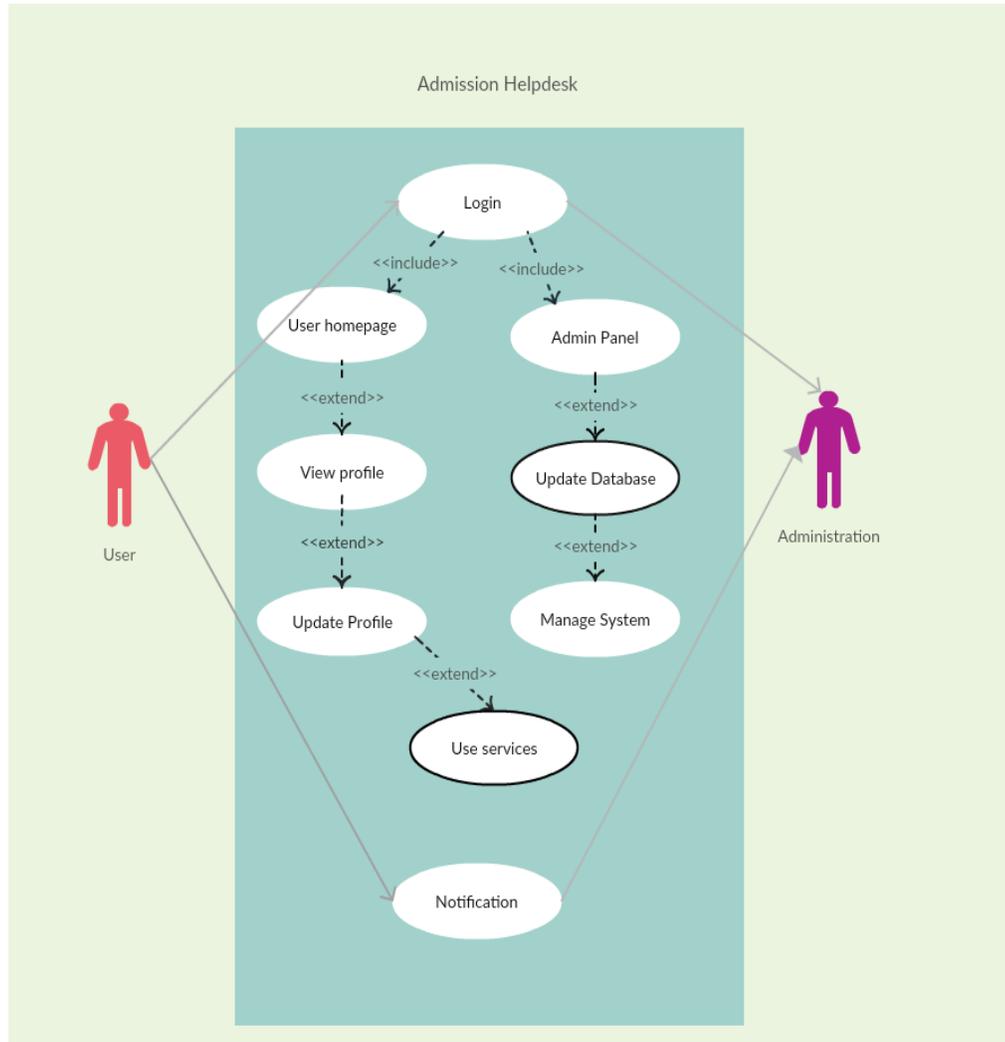


Figure 3.2: Use case diagram of Admission Helpdesk

In our system, user is students because it is an educational based system. A student creates his own ID by completed his registration on this system. He can manage his own profile and could see updates and notification. Administration panel have the rights to control admin panel and other actions. It can manage and modify database of the system. The process can be cleared from these tables.

Table 3.1: Description of Use Case Diagram of Public Users

Use-case (1)	Public Users of the system
Primary actor	Public Users
Secondary actor	Null
Pre-condition	This is only for public users; public users are who visited site
Description	Normal users that means public users can visit just site that's why we called them public users. Who is not registered member on the site. Public user can only see news of universities without login.
Post-condition	If users want to apply to Universities, they must be logged in Otherwise it won't specific criteria for user.

Table 3.2: Description of Use Case Diagram of Registered Users

Use-case (2)	Registered Users of the system
Primary actor	Registered Users
Secondary actor	Null
Pre-condition	This is only for Registered user. User Must have an Account for Log In. User need to Give all the correct information for create an account.
Description	Normally User can browse the system and see all the services. If she/he has an account then they can use our system. In registration procedure they should have to register with an email address and valid password.
Post-condition	It will show selected criteria for specific user according to users clarification. User can access all services.

Table 3.3: Description of Use Case Diagram of Admin

Use-case (3)	Admin User of the system
Primary actor	Admin
Secondary actor	Null
Pre-condition	Admin Must have an account to Login and manage the system. The admin account is pre-defined by developer as a result no one can create new admin.
Description	Admin can edit and delete the options of the application. Admin can remove a profile. Admin can see all users. He will be able to control or manage the whole system.
Post-condition	No one will be able to login into admin panel. If one doesn't have a user id and password.

### 3.4 Logical Data model

A logical data model describes how data will be physically implemented in the system and how they approached by the user in the system. The logical data model defines the flow of data in the system. It is like flow chart and describe the actions or work flow of every entity.

In data flow diagram one data can be connected with other data. As example, the admin of this system can access the user ID if he wants. All information of the system can be controlled by the admin. User can access the main services of the system if he login with his valid ID. To understand the process easily here is a figure 3.3 what will describe the work of the system.



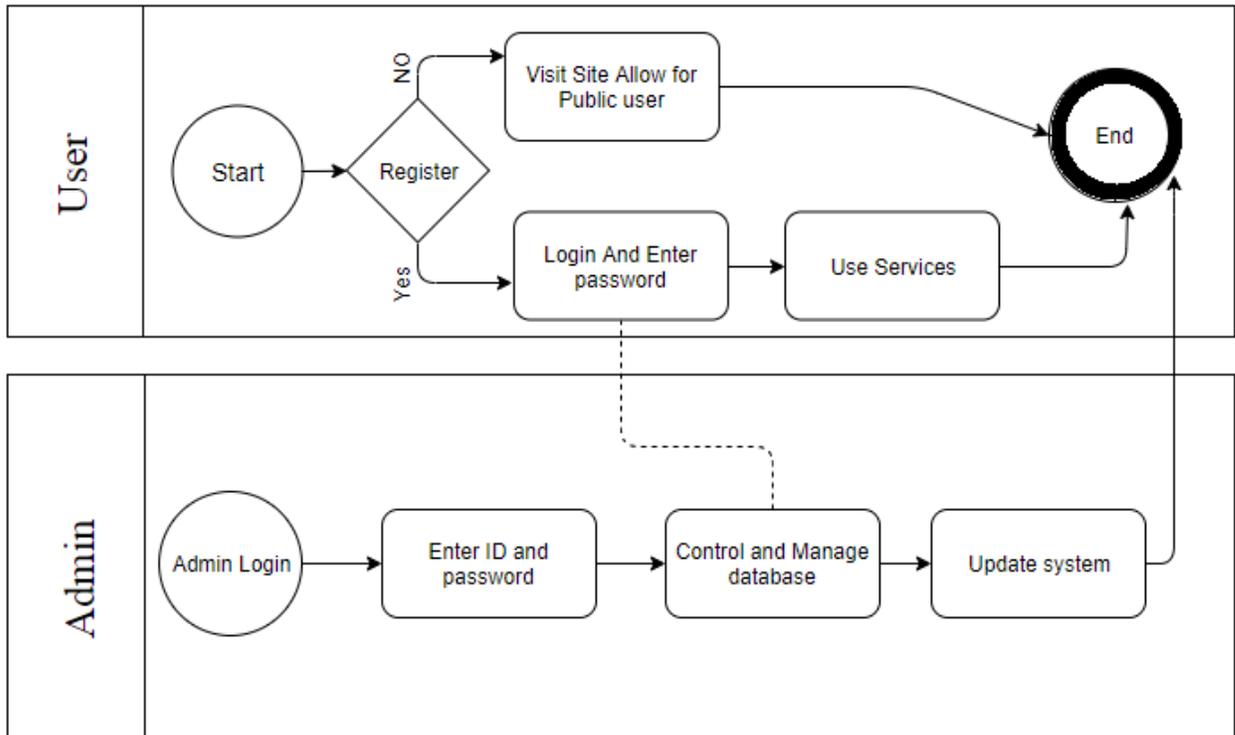


Figure 3.3: Data flow diagram

In this diagram it represents the workflow of our project. In our project all rights to update or manage database is managed by admin. User only can update his/her profile and that information will also be reserved by admin panel. All data of this system will be managed by admin but user can update their own data which will be secure in this system.

### 3.4.1 E-R Diagram of proposed system

An entity relationship diagram refers the relationships between entity sets which stored in a database. An entity is component of data and entity sets is the collection of similar entities. By ERD we can understand the relationship among the data of a system

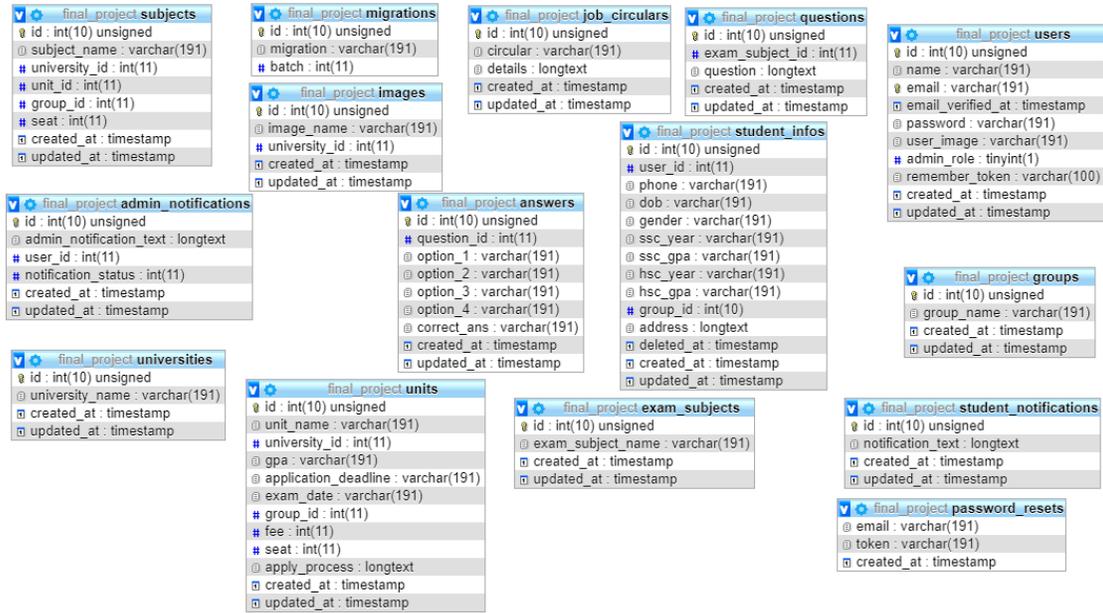


Figure 3.4: E-R Diagram of Admission Helpdesk

Here, all entity of the Database is internally connected by code. There is no visible connection but all table and data and sequentially related which is done in code section.

### 3.5 Design Requirements

Design part is most important part of a web or mobile application. It makes an application efficient and user friendly. A proper design makes a website easy to operate. To keep this in mind here is some topics need to cover [10], [11]. When we complete the target to fulfill all demand through our feature it will be a complete and useful website or mobile application for the user and also it will be simple easy but very effective.

#### Design requirement for Admin

- Login page
- Take actions (view edit/delete)
- Add features
- Profile details

- Change password
- Update user's information
- Log Out

#### Design Requirement for User

- View
- Use services
- Fix criteria for user

## **CHAPTER 4**

### **Design Specification**

#### **4.1 Front-end Design**

Front-end design is a presentation layer of a website. That is the visible part which a user can see and operate. User can edit this sometimes or not. There are some tools which help to create front-end design.

#### **HTML5**

Hyper Text Markup Language (HTML) is a core technology markup language used for structuring and presenting content for the World Wide Web. Basically, it is a not programming language, in real it is a markup language which contains a sets of markup tags [12]. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. To create our website, we used HTML5.

#### **CSS 3**

Cascading Style Sheets or CSS is a language used to describe the look and formatting of a document written in a markup language. It is a way for Web developers to design the look and feel of their Web pages [13], [14]. It is a very powerful and important tool for the Website developer. CSS is getting separation from HTML and can be used with any XML based markup language. It is easy to maintain sites and enable to present layout, color all over a site.

#### **Bootstrap 4.1.3**

Bootstrap is a free and open-source framework to design front-end of a website. It contains all templates of HTML and CSS along with JavaScript extensions. The purpose of bootstrap is to make easy to develop a dynamic website. Here we use bootstrap to create our front-end design.

## **XML**

Extensible Markup Language (XML) is another markup language that refers a set of rules of encoding documents in both human and machine readable format[15]. As we said before that we are going to build a mobile application so to make the design of the front-end, we need to use xml in front-end design of the application.

## **4.2 Back-end Design**

Back-end design is a part which contain core computational logic of a website. It controls all operations in system which is maintained by admin. Admin can update, edit or delete any content of the system. There is some tools we use in our project.

## **MySQL**

SQL stands for Structured Query language and is used for communicating with the database. It's a standard language for relational data management system [16], [17]. MySQL is the most popular and widely used open source SQL database management system. It is important for database management. Large number of Database can be easily managed by it.

## **JavaScript**

JavaScript is a lightweight, prototype based, explained, object-oriented language including first class functions. This programming language is also known as multi-paradigm scripting language used to create web pages [18]. It runs on the client side of the web pages. It is used to design how the web pages treat on the incident of an event.

## **PHP 7.2**

PHP or Hypertext preprocessor is a server-side scripting language which is used for web development [19]. PHP code runs on server, that's why we call it server-side scripting language. PHP code can be embedded into HTML code or templates. PHP 7.2 contain object parameter and it was released on 2017.

## **Laravel 5.7**

Laravel is a PHP web framework. It is open-source and free. The source code of Laravel is hosted on GitHub. It follows model-view-controller architectural pattern. The new version of it Laravel 5.7 released on September 4,2018. So here we are using latest version of it.

## **jQuery**

jQuery is a JavaScript library. It is designed to simplify client-side scripting of HTML. It is also free and widely deployed JavaScript library. jQuery syntax is designed to make it easier to navigates a document, create animation, select DOM element and handle events. It is also used to develop Ajax application what helps us more.

## **XAMPP**

XAMPP is a free and open source cross-platform web server that is simple, light-weighted Apache server that makes it extremely easy for web developers to create a local http server with it. We use XAMPP to build a local server for our application.

## **Ajax**

Ajax stands for Asynchronous JavaScript and XML. It is not a programming language. It is a combination of a browser built-in XMLHttpRequest object and JavaScript and HTML DOM (to display or use data). Ajax is a dream of a developer because one can update a web page without reloading the page, request data from a server [20]. After that it process data by using JavaScript and update page content. Ajax allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes; so, it is possible to update website reload the page.

## **Blade template**

The concept of using Blade is introduced by Laravel 5.1. It is a templating engine to design a unique layout. The blade template does not restrict the developer from using plain PHP code in views. Blade view files use the blade.php file extension and stored in the resources/views directory.

### **4.3 Interaction Design and UX**

Interaction Design is the creation of physical products. It is most important part because look is very important for a website. It is the design of the interaction between users and products [21]. It has 5 dimensions to understand this. First one is words; it is a component that used in interaction, as example button labels should be simple and meaningful. Then Visual representation which concerns graphical element like icons or images. Next one is physical object or space which is related with which object you used to interact with product. It could be laptop, smartphone, mouse, touchpad or user's finger. The fourth dimension is time which refers to media that changes with time like animation, video, sounds etc. And last one is behavior. It is about the mechanism of product. In simple words, it describes how the previous dimension define the interactions of a product. The process is concerned with the goal of a user. Its depend on what interactions are necessary to achieve the goal. A proper design makes a site easy and user friendly. To keep this in mind we design necessary buttons, pages, add pictures or additional information in our application. We also make our meaningful logo and build our site attractive by its content and color.

### **4.4 Implementation of requirements**

Implementation is the carrying out or execute or specification for an action. Implementation of requirement is the technical specification to deploy. To develop a complete website, we need to use many tools or software which makes our work process easy. As we develop website and mobile app both so we used different tools and software and combined them to make our work easy.

- HTML 5
- CSS 3
- Laravel 5.7
- PHP 7.2
- Apache
- MySQL
- JAVA
- JavaScript

- XML
- jQuery
- Bootstrap
- XAMPP local server
- Atom Code editor
- Git bash command prompt
- Android Studio

#### **4.4.1 Basic Android Overview**

Android delivers a complete set of software for mobile devices an operating system middleware and key mobile application. It is based on an modified version of the Linux kernel and other open source software ad designed for touchscreen mobile device like smartphone or tablets. Android is a comprehensive platform that championed by Google and owned by Open Handset Alliance. It provides all tools framework to develop mobile apps and it is a complete software stack for a mobile.

#### **4.4.2 Android Version**

Android version have been developed under a confectionery-themed code name and released in alphabetical order. Except version 1.0 and 1.1 all updated version names are formed in code order [9]. Here we make a list where we mention the version with their code name.

Alpha (1.0)

Beta (1.1)

Cupcake (1.5)

Donut (1.6)

Éclair (2.0-2.1)

Froyo (2,2-2,2,3)

Gingerbread (2.3-2.3.7)

Honeycomb (3.0-3.2.6)

Ice Cream Sandwich (4.0-4.0.4)

Jelly Bean (4.1-4.3.1)



Kitkat (4.4-4.4.4)

Lollipop (5.0-5.0.2)

Marshmallow (6.0)

Nougat (7.0-7.1)

Oreo (8.0-8.1)

Pie (9.0)

These are all version of android. The update versions are obviously more effective than previous and also provide more options and benefits. Here, the application we made support the API level from 4.2 which means it will support all latest version of android.

# CHAPTER 5

## Implementation and Testing

### 5.1 Implementation of Database

A collection of information organized in such a way that a computer program can quickly select desired pieces of data. To access information from a database, we need a database management system [22]. This is a collection of programs that enables to enter, organize and select data in a database. All the tables in the database which are used in our project are here,

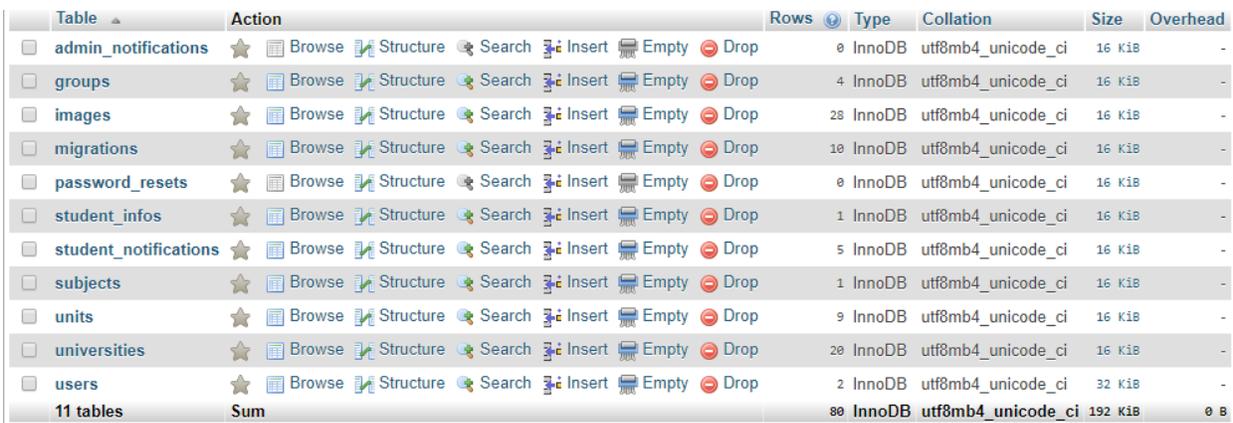
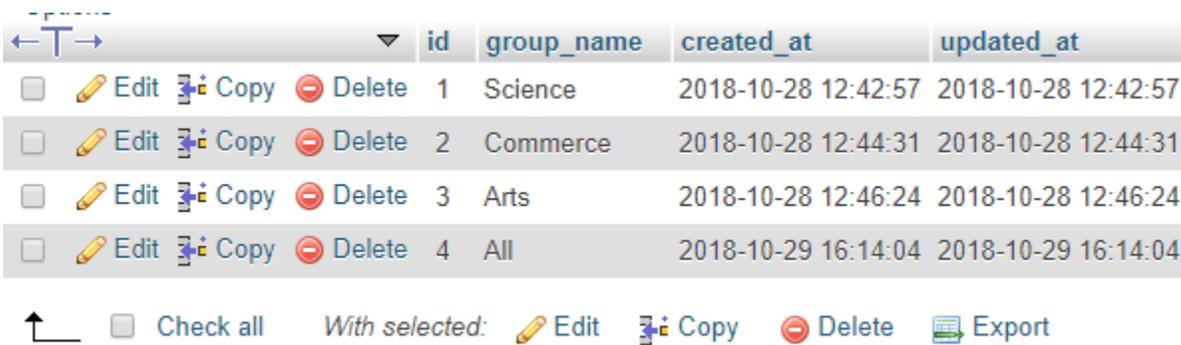


Table	Action	Rows	Type	Collation	Size	Overhead
admin_notifications	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 KIB	-
groups	★ Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_unicode_ci	16 KIB	-
images	★ Browse Structure Search Insert Empty Drop	28	InnoDB	utf8mb4_unicode_ci	16 KIB	-
migrations	★ Browse Structure Search Insert Empty Drop	10	InnoDB	utf8mb4_unicode_ci	16 KIB	-
password_resets	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 KIB	-
student_infos	★ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16 KIB	-
student_notifications	★ Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_unicode_ci	16 KIB	-
subjects	★ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16 KIB	-
units	★ Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_unicode_ci	16 KIB	-
universities	★ Browse Structure Search Insert Empty Drop	20	InnoDB	utf8mb4_unicode_ci	16 KIB	-
users	★ Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	32 KIB	-
11 tables	Sum	80	InnoDB	utf8mb4_unicode_ci	192 KIB	0 B

Figure 5.1: Table list in Database



	id	group_name	created_at	updated_at
<input type="checkbox"/> Edit Copy Delete	1	Science	2018-10-28 12:42:57	2018-10-28 12:42:57
<input type="checkbox"/> Edit Copy Delete	2	Commerce	2018-10-28 12:44:31	2018-10-28 12:44:31
<input type="checkbox"/> Edit Copy Delete	3	Arts	2018-10-28 12:46:24	2018-10-28 12:46:24
<input type="checkbox"/> Edit Copy Delete	4	All	2018-10-29 16:14:04	2018-10-29 16:14:04

Check all    With selected:    Edit    Copy    Delete    Export

Figure 5.2: Group list in database

				id	image_name	university_id	created_at	updated_at
<input type="checkbox"/>				1	university_images/6GQxgof4bYzS1nsl1Znlic2FRFLBVNQw...	1	2018-11-03 11:43:43	2018-11-03 11:43:43
<input type="checkbox"/>				2	university_images/l3tamEmNLOepyMmvGux6b30B9EC0NKSY...	1	2018-11-03 11:43:59	2018-11-03 11:43:59
<input type="checkbox"/>				3	university_images/Bw8YnKKxdHhBUSWsJlXswJrzNM3KeCsl...	1	2018-11-03 11:47:01	2018-11-03 11:47:01
<input type="checkbox"/>				4	university_images/pe50VQkWTTrHi79YV019QWJxKCqVipBHT...	4	2018-11-03 11:47:40	2018-11-03 11:47:40
<input type="checkbox"/>				5	university_images/TdVTRW37atZgZT5VHLrSBirPkuQWJZHP...	4	2018-11-03 11:47:55	2018-11-03 11:47:55
<input type="checkbox"/>				6	university_images/DSJOf4rl4WnsBytmD6CIEAHVmdWj3omX...	5	2018-11-03 11:50:14	2018-11-03 11:50:14
<input type="checkbox"/>				7	university_images/WfsbX6KVOURKyCeNPbcPj4vxzdVclqwS...	6	2018-11-03 11:50:49	2018-11-03 11:50:49
<input type="checkbox"/>				8	university_images/hDirk8wdRrhqOLDewL2w9KnKnXz9QBxa7...	7	2018-11-03 11:51:24	2018-11-03 11:51:24
<input type="checkbox"/>				9	university_images/bizSEpHwXUZEa6glOjT72JVzyqFFgknC...	7	2018-11-03 11:51:31	2018-11-03 11:51:31
<input type="checkbox"/>				10	university_images/nFRuZnzW2LQ6gkP8kTPHs9uSBJkiwNJ...	8	2018-11-03 11:53:37	2018-11-03 11:53:37
<input type="checkbox"/>				11	university_images/PdUHQr5bB0TB9ld4EirI6oSwp9HOGT5...	9	2018-11-03 11:54:04	2018-11-03 11:54:04
<input type="checkbox"/>				12	university_images/J1HI711twpS6mZZqVc1LR1QxdCreprS...	10	2018-11-03 11:54:29	2018-11-03 11:54:29
<input type="checkbox"/>				13	university_images/KdgZ1SJ1y5dVhwoiafXI9oCSS1PQfFs...	10	2018-11-03 11:54:37	2018-11-03 11:54:37
<input type="checkbox"/>				14	university_images/OhGDwNQiMjmFKg7YJKPcYoZxRgTAX4D9...	11	2018-11-03 11:56:16	2018-11-03 11:56:16
<input type="checkbox"/>				15	university_images/amgjiYiyM098Gvh1RG9ILP6SUJgjs2YW...	12	2018-11-03 11:57:38	2018-11-03 11:57:38
<input type="checkbox"/>				16	university_images/PyHEs2UERJHjAX2aolq0t4pfDgM6sH25...	12	2018-11-03 11:57:55	2018-11-03 11:57:55

Figure 5.3: Database of Images

				id	university_name	created_at	updated_at
<input type="checkbox"/>				1	Dhaka University	2018-10-29 18:22:00	2018-10-29 18:22:00
<input type="checkbox"/>				4	Jahangirnagar University	2018-11-03 03:51:39	2018-11-03 03:51:39
<input type="checkbox"/>				5	Comilla University	2018-11-03 03:52:09	2018-11-03 03:52:09
<input type="checkbox"/>				6	Bangladesh Agricultural University	2018-11-03 03:52:38	2018-11-03 03:52:38
<input type="checkbox"/>				7	University of Chittagong	2018-11-03 03:53:45	2018-11-03 03:53:45
<input type="checkbox"/>				8	Islamic University	2018-11-03 03:54:47	2018-11-03 03:54:47
<input type="checkbox"/>				9	Shahjalal University of Science and Technology	2018-11-03 03:55:20	2018-11-03 03:55:20
<input type="checkbox"/>				10	Khulna University	2018-11-03 03:55:54	2018-11-03 03:55:54
<input type="checkbox"/>				11	Bangabandhu Sheikh Mujibur Rahman Agricultural Uni...	2018-11-03 03:56:23	2018-11-03 03:56:23
<input type="checkbox"/>				12	Hajee Mohammad Danesh Science & Technology Univers...	2018-11-03 03:56:49	2018-11-03 03:56:49
<input type="checkbox"/>				13	Mawlana Bhashani Science and Technology University	2018-11-03 03:57:09	2018-11-03 03:57:09
<input type="checkbox"/>				14	Patuakhali Science and Technology University	2018-11-03 03:57:22	2018-11-03 03:57:22
<input type="checkbox"/>				15	Sher-e-Bangla Agricultural University	2018-11-03 03:57:40	2018-11-03 03:57:40
<input type="checkbox"/>				16	Jatiya Kabi Kazi Nazrul Islam University	2018-11-03 03:58:15	2018-11-03 03:58:15
<input type="checkbox"/>				17	Chittagong Veterinary and Animal Sciences Universi...	2018-11-03 03:58:43	2018-11-03 03:58:43
<input type="checkbox"/>				18	Sylhet Agricultural University	2018-11-03 03:59:13	2018-11-03 03:59:13

Figure 5.4: University list in database

				id	unit_name	university_id <small>Foreign key of university model</small>	gpa	application_deadline	exam_date	group_id	fee	seat	apply_process	created_at
				2	DU Ka Unit	1	3.50	20/09/2018	28/09/2018	1	350	1750	You have to register through <a href="http://admission.eis...">http://admission.eis...</a>	2018-11-03
				3	DU Kha Unit	1	3.50	30/10/2018	03/11/2018	2	350	2378	You have to register through <a href="http://admission.eis...">http://admission.eis...</a>	2018-11-03
				4	DU Ga Unit	1	3.50	28/10/2018	15/11/2018	3	350	1250	You have to register through <a href="http://admission.eis...">http://admission.eis...</a>	2018-11-03
				5	DU Gha Unit	1	3.00	28/10/2018	03/11/2018	4	350	1615	You have to register through <a href="http://admission.eis...">http://admission.eis...</a>	2018-11-03
				6	DU Cha Unit	1	3.00	28/10/2018	03/11/2018	4	350	135	You have to register through <a href="http://admission.eis...">http://admission.eis...</a>	2018-11-03
				7	JU A Unit	4	3.50	20/09/2018	05/11/2018	1	550	1150	You have to go <a href="http://www.ju-admission.org">www.ju-admission.org</a> website and C...	2018-11-03
				8	JU B Unit	4	3.50	03/11/2018	04/11/2018	2	450	860	You have to go <a href="http://www.ju-admission.org">www.ju-admission.org</a> website and C...	2018-11-03
				9	COU A Unit	5	3.00	31/10/2018	09/11/2018	1	550	350	From any Teletalk mobile send SMS to 16222 with th...	2018-11-03
				10	BAU All Unit	6	3.50	28/10/2018	11/11/2018	1	700	1100	You have to go to <a href="https://admission.bau.edu.bd/">https://admission.bau.edu.bd/</a>	2018-11-03

Figure 5.5: Unit list

## 5.2 Implementation of Front-end Design

It is necessary to develop a gorgeous and attractive front-end because it need to balance the screen size what will be different for website and an app [23], [24]. This process is known as responsive website. To make a responsive website it is necessary to maintain each layer perfect and maintain the perfect resolution of the image that will be used in website for interactive design we try to make it simple and user friendly. An attractive design always convinced a user to interact the system or use the application. As we made website and mobile application, so we had to design such kind of which can cover a large screen as well as a small screen too. Here we attached our website and mobile app front-end images separately and also attached image of admin panel of our website.

## 5.2.1 Website Front-end Design

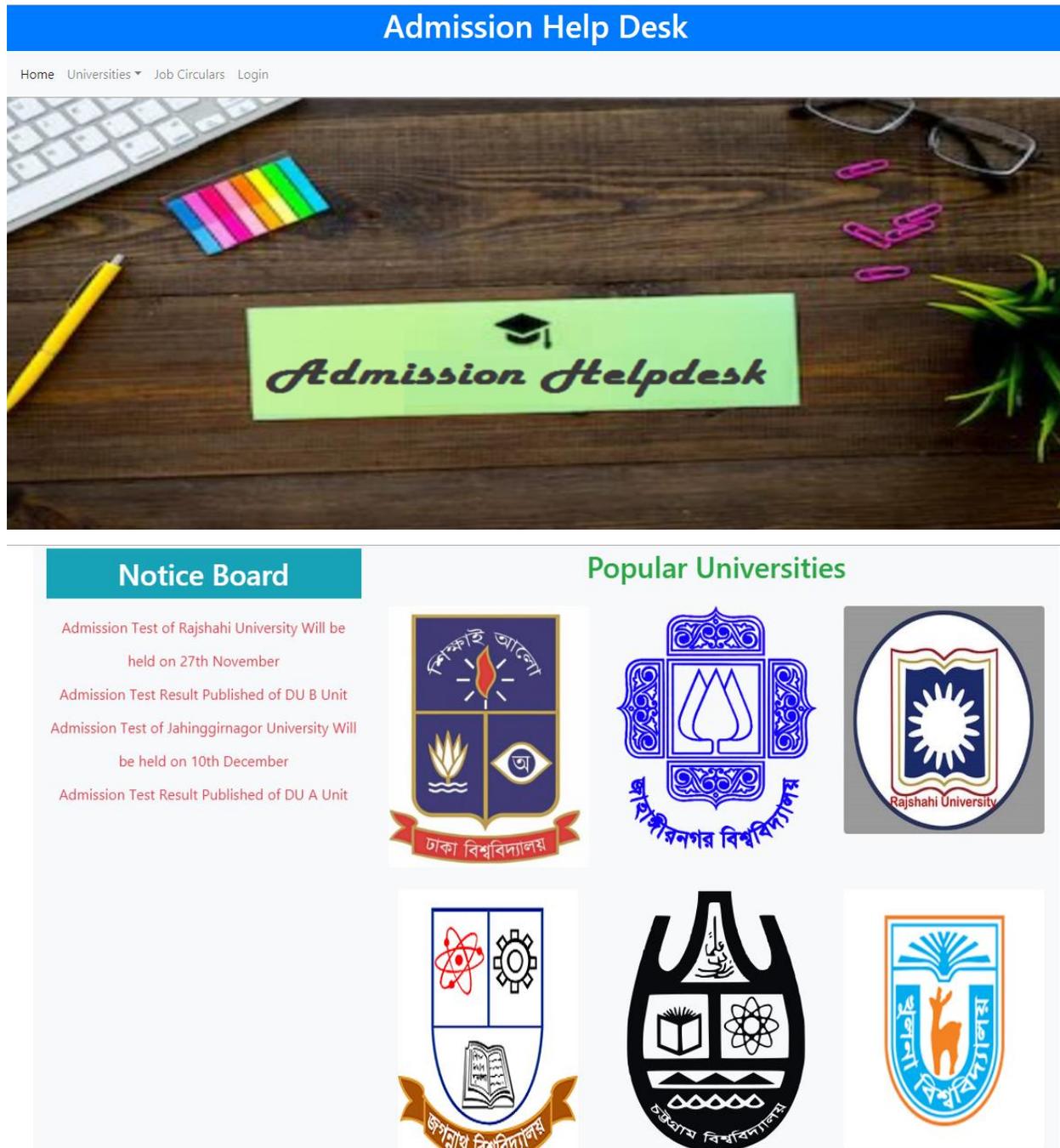


Figure 5.6: Home page of Admission helpdesk for public users



## Dhaka University

The University of Dhaka also known as Dhaka University or simply DU is the oldest university in modern Bangladesh. The university is ranked number one on the Bangladesh University Ranking 2017. Established in 1921 during the British Raj, it has made significant contributions to the modern history of Bangladesh. After the Partition of India, it became the focal point of progressive and democratic movements in Pakistan. Its students and teachers played a central role in the rise of Bengali nationalism and the independence of Bangladesh.

**Exam Date of ka : 28/09/2018**

**Exam Date of Kha : 21/09/2018**

**Exam Date of Ga : 14/09/2018**

**Total Number of Seats: 5378**

Figure 5.7: Dhaka University Information



## Jahangirnagar University

Jahangirnagar University is a public university in Bangladesh, based in Savar Upazila, Dhaka. It is the only fully residential university in Bangladesh. The university was established in 1970 by the Jahangirnagar Muslim University Ordinance of the government of Pakistan. Its first vice-chancellor, Mafiz Uddin Ahmad (PhD in chemistry, University of Illinois, Chicago) took up office on 24 September 1970. The first group of students, a total of 150, were enrolled in four departments: Economics, Geography, Mathematics, and Statistics. On 2 March 2014, Farzana Islam, a professor of the Anthropology Department, was appointed the vice-chancellor of JU, marking the country's first woman to hold the position.

**Exam Date of A : 30/09/2018**

**Exam Date of B : 04/10/2018**

**Exam Date of C : 08/10/2018**

**Exam Date of C1 : 09/10/2018**

**Exam Date of D : 02/10/2018**

**Exam Date of E : 10/10/2018**

**Exam Date of F : 09/10/2018**

**Exam Date of G : 10/10/2018**

**Exam Date of H : 01/10/2018**

**Exam Date of I : 03/10/2018**

**Total Number of Seats: 1980**

Figure 5.8: Jahangirnagar University Information

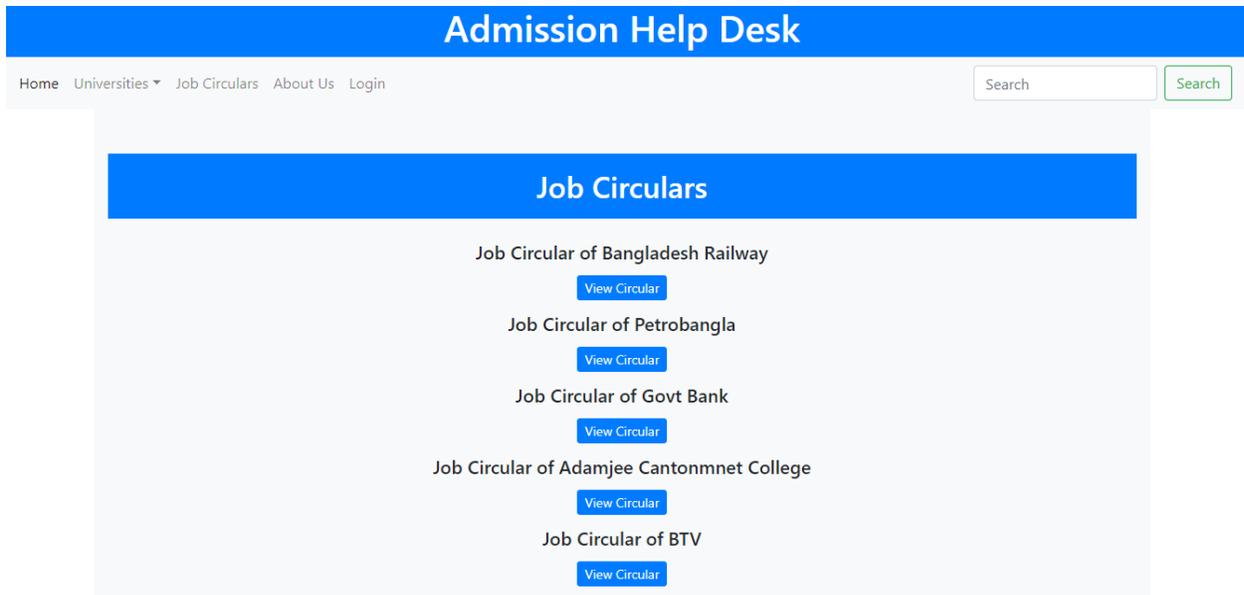


Figure 5.9: Job Circular

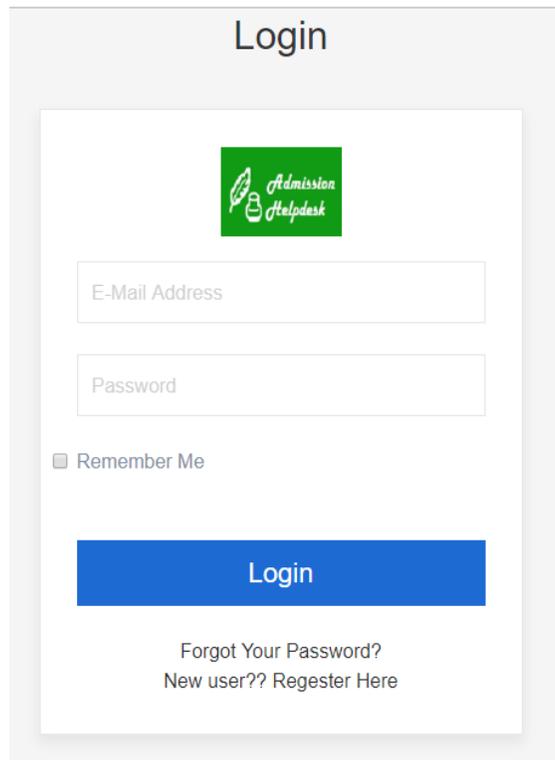


Figure 5.10: Login page of Admission helpdesk



**Admission Help Desk** | Shammi Akter

**MAIN**

- Dashboard
- Universities
- Units
- Subjects
- Exam

**6 Universities** | **19 Units** | **16 Subjects** | **2 Students**

Notificaions		
No	Notifications	Published
1	Admission Test of Rajshahi University will be held on 12th December 2018	8 seconds ago
2	Result of Dhaka University KA Unit Admission Test will be published on Tomorrow.	35 minutes ago

Figure 5.11: Homepage after login

**Admission Help Desk** | Shammi Akter

**MAIN**

- Dashboard
- Universities
- Units
- Subjects
- Exam

List of all Universities

University List		
Show	10	entries
No.	Name	Action
1	Khulna University	<a href="#">View Units</a>
2	Dhaka University	<a href="#">View Units</a>
3	Jahangirnagar University	<a href="#">View Units</a>
4	Rajshahi university	<a href="#">View Units</a>
5	Chittagong University	<a href="#">View Units</a>
6	Comilla University	<a href="#">View Units</a>

Figure 5.12: University list for respective GPA

Admission Help Desk Shammi Akter

MAIN

- Dashboard
- Universities
- Units
- Subjects
- Exam

List of the **Jahangirnagar University** Units where you can apply

Units List

Show  entries

No.	Name	Exam Date	Action
1	A	30/09/2018	<a href="#">View Details</a> <a href="#">View Subjects</a>
2	B	04/10/2018	<a href="#">View Details</a> <a href="#">View Subjects</a>
3	C	08/10/2018	<a href="#">View Details</a> <a href="#">View Subjects</a>
4	C1	09/10/2018	<a href="#">View Details</a> <a href="#">View Subjects</a>
5	D	02/10/2018	<a href="#">View Details</a> <a href="#">View Subjects</a>
6	E	10/10/2018	<a href="#">View Details</a> <a href="#">View Subjects</a>

Figure 5.13: Unit of selected university

Admission Help Desk

List of the **Jahang**

**Details About A** ✕

**University Name**  
Jahangirnagar University

**Required SSC GPA**  
3.50

**Required HSC GPA**  
3.50

**Required Total GPA**  
7.00

**Application Deadline**  
16/09/2018

**Exam Date**  
30/09/2018

**Exam Fee**  
550

**Apply Process**  
ju-admission.org

Figure 5.14: Unit details of selected University

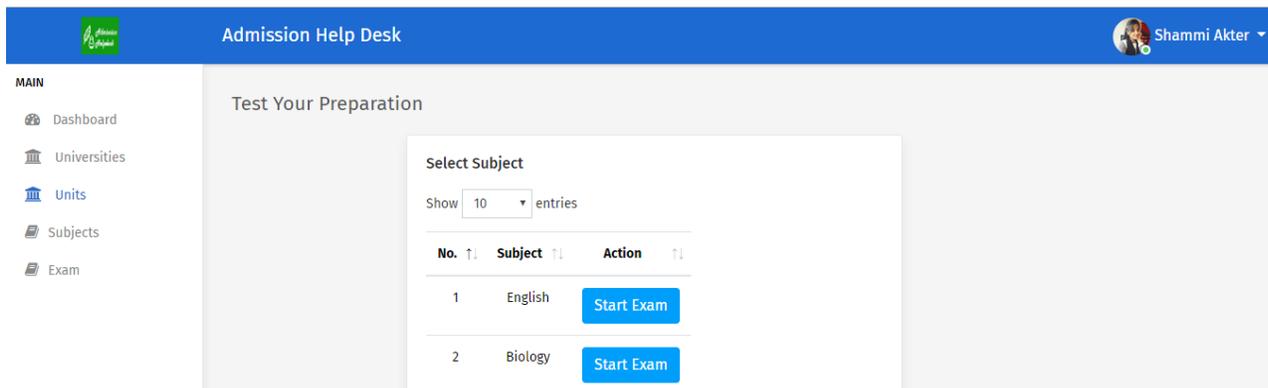


Figure 5.15: Model test system

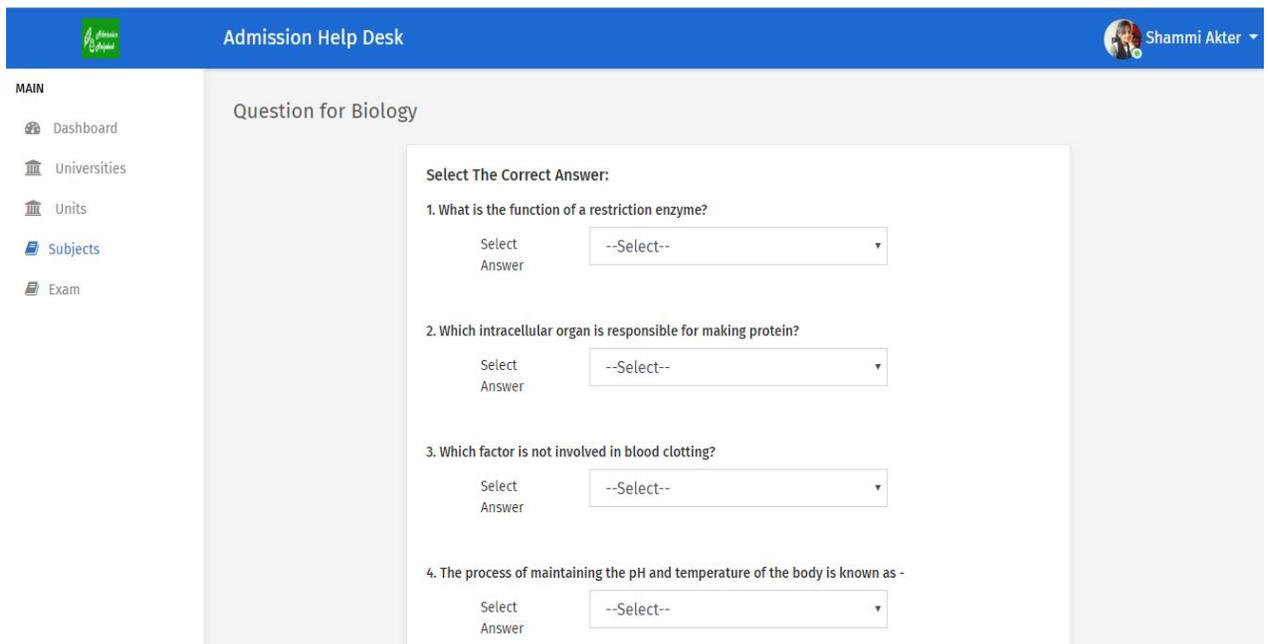


Figure 5.16: Question paper for selected subject

Admission Help Desk Shammi Akter

MAIN

- Dashboard
- Universities
- Units
- Subjects**
- Exam

List of all **Subjects** of **Universities** according to your eligibility

**Units List**

Show  entries

No.	Name	Unit Name	University Name	Number of Seats	Group Name
1	Architecture	A	Khulna University	50	Science
2	Computer Science and Engineering	A	Khulna University	40	Science
3	Electronics and Communication Engineering	A	Khulna University	40	Science
4	Urban and Rural Planning	A	Khulna University	40	Science
5	Mathematics	A	Khulna University	50	Science
6	Physics	A	Khulna University	45	Science
7	Chemistry	A	Khulna University	45	Science

nalproject.arif-ahmed.com/student/subjects/list

Figure 5.17: Subjects list of all university

Admission Help Desk Shammi Akter

MAIN

- Dashboard
- Universities
- Units
- Subjects
- Exam

My Profile [+ Edit Profile](#)

Profile Picture Change Successfully!

**Shammi Akter**

Student

Gender : Female

Date of Birth : 18/02/1996

No file chosen

Phone: 01712344556

Email: shammiakter1096@gmail.com

SSC Year: 2012

SSC GPA: 5.00

HSC Year: 2014

HSC GPA: 5.00

Group: Science

Address: Dhaka

Figure 5.18: Update Picture of user

## 5.2.2 Android Application Front-end Design



Figure 5.19: Homepage of Android app

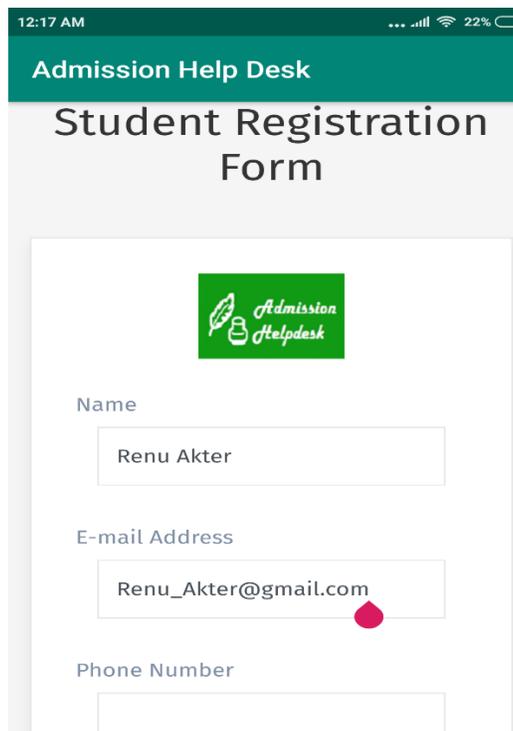


Figure 5.20: Login page of Android app

12:15 AM 23%

Admission Help Desk

# Admission Help Desk



## Dhaka University

The University of Dhaka also known as Dhaka University or simply DU is the oldest university in modern Bangladesh. The university is ranked number one on the Bangladesh University Ranking 2017. Established in 1921 during the British Raj, it has made significant contributions to the modern history of Bangladesh. After the Partition of India, it became the focal point of progressive and democratic movements in Pakistan. Its students and teachers played a central role in the rise of Bengali nationalism and the independence of Bangladesh

**Exam Date of ka : 28/09/2018**

**Exam Date of Kha : 21/09/2018**

**Exam Date of Ga : 14/09/2018**

**Total Number of Seats: 5378**

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Figure 5.21: Details of Dhaka University

12:15 AM 23%

Admission Help Desk

# Admission Help Desk




## Jahangirnagar University

Jahangirnagar University is a public university in Bangladesh, based in Savar Upazila, Dhaka. It is the only fully residential university in Bangladesh. The university was established in 1970 by the Jahangirnagar Muslim University Ordinance of the government of

marking the country's first woman to hold the position.

**Exam Date of A : 30/09/2018**  
**Exam Date of B : 04/10/2018**  
**Exam Date of C : 08/10/2018**  
**Exam Date of C1 : 09/10/2018**  
**Exam Date of D : 02/10/2018**  
**Exam Date of E : 10/10/2018**  
**Exam Date of F : 09/10/2018**  
**Exam Date of G : 10/10/2018**  
**Exam Date of H : 01/10/2018**  
**Exam Date of I : 03/10/2018**  
**Total Number of Seats: 1980**

All right reserved ©2018

Figure 5.22: Jahangirnagar University details

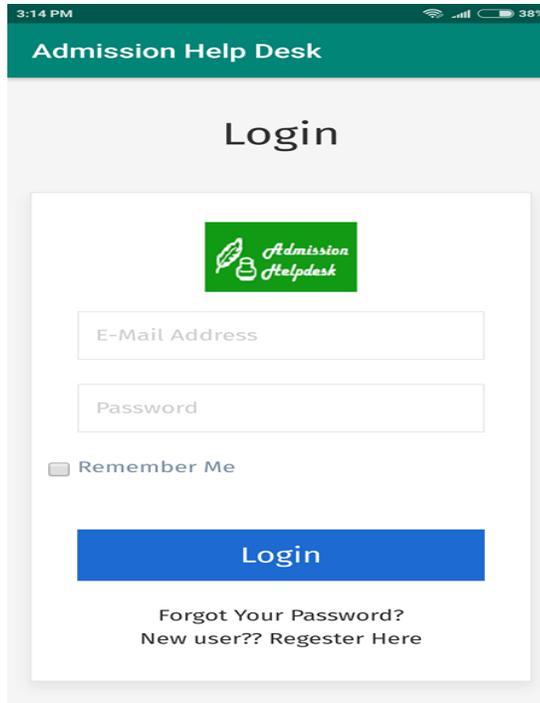


Figure 5.23: Login page of Android app

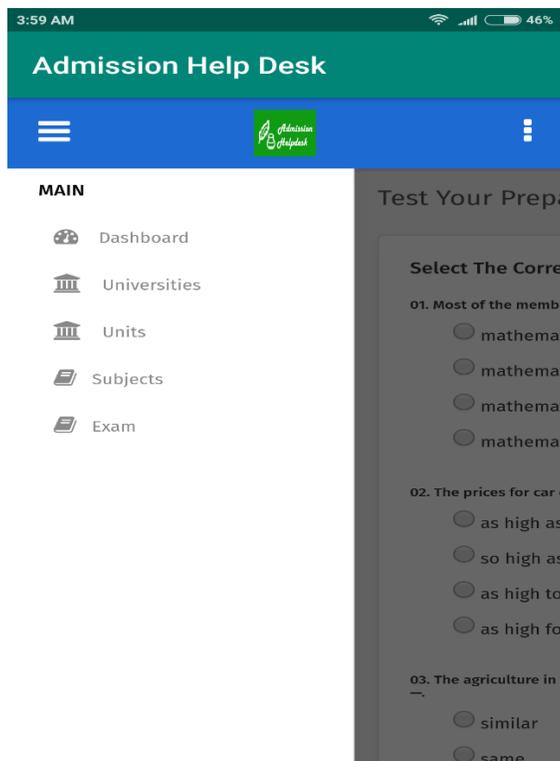


Figure 5.24: Menu Button



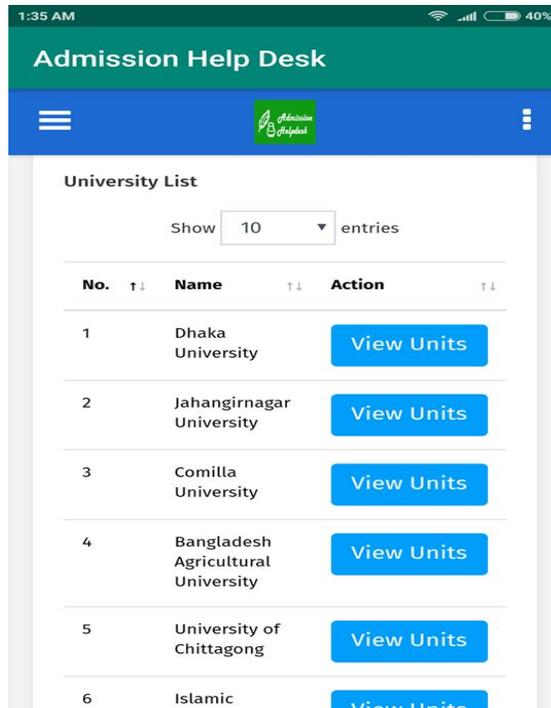


Figure 5.25: University List

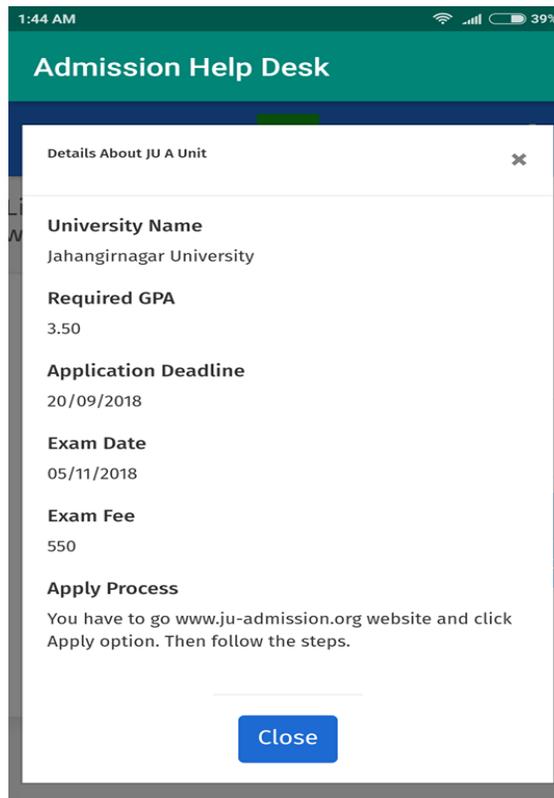


Figure 5.26: Details of Unit

## 5.2.3 Admin Panel

**Admission Help Desk**

**MAIN**

- Dashboard
- Group >
- Universities >
- University Images >
- University Units >
- Subjects >
- Student Notifications
- Students List
- Exam >
- Job Circular >

**List of all Groups**

**Group List**

Show 10 entries

No.	Name	Action
1	Science	
2	Commerce	
3	Arts	
4	All	

Showing 1 to 4 of 4 entries

Previous 1 Next

Figure 5.27: Group List of Admin panel

**Admission Help Desk**

**MAIN**

- Dashboard
- Group >
- Universities >
- Add University
- All Universities
- University Images >
- University Units >
- Subjects >
- Student Notifications
- Students List
- Exam >
- Job Circular >

**List of all Universities**

**University List**

Show 10 entries

No.	Name	Description	Action
1	Khulna University	Khulna University is a public university in Bangladesh. It is situated at Gollamari, Khulna, Bangladesh, by the river Moyur beside the Khulna-Satkhira highway. The academic programs of Khulna University started on 31 August 1991 with 80 students in four disciplines. Khulna University has 28 disciplines under six schools and one institute.	
2	Dhaka University	The University of Dhaka also known as Dhaka University or simply DU is the oldest university in modern Bangladesh. The university is ranked number one on the Bangladesh University Ranking 2017. Established in 1921 during the British Raj, it has made significant contributions to the modern history of Bangladesh. After the Partition of India, it became the focal point of progressive and democratic movements in Pakistan. Its students and teachers played a central role in the rise of Bengali nationalism and the independence of Bangladesh.	
3	Jahangirnagar University	Jahangirnagar University is a public university in Bangladesh, based in Savar Upazila, Dhaka. It is the only fully residential university in Bangladesh. The university was established in 1970 by the Jahangirnagar Muslim University Ordinance of the government of Pakistan. Its first vice-chancellor Mafiz Uddin Ahmad (PhD) in chemistry	

Showing 1 to 3 of 3 entries

Previous 1 2 3 Next

nalprojectarif-ahmed.com/university/create

Figure 5.28: University List of Admin panel

Admission Help Desk Admin

**MAIN**

- Dashboard
- Group >
- Universities >
- University Images >
- University Units >
- Subjects >
- Student Notifications
- Students List
- Exam >
- Job Circular >

**University Unit List**

Show 10 entries

No.	Name	University Name	Required GPA	Application Deadline	Action
1	A	Khulna University	9.0	15/10/2018	  
2	B	Khulna University	8.0	15/10/2018	  
3	C	Khulna University	8.0	15/10/2018	  
4	A	Jahangirnagar University	7.00	16/09/2018	  
5	B	Jahangirnagar University	7.50	16/09/2018	  
6	C	Jahangirnagar University	7.00	16/09/2018	  
7	C1	Jahangirnagar University	6.00	16/09/2018	  

Figure 5.29: Unit List of Admin panel

Admission Help Desk

**MAIN**

- Dashboard
- Group >
- Universities >
- University Images >
- University Units >
- Subjects >
- Student Notifications
- Add Notification
- All Notifications
- Students List
- Exam >
- Job Circular >

**List of all Notifications**

**Notification List**

Show 10 entries

No.	Name	Created at	Action
1	Rajshahi University Admission Test result Published	3 weeks ago	
2	Exam of D unit of Dhaka university will be help tomorrow.	3 weeks ago	
3	Exam of A unit of Dhaka university will be help 27th November.	3 weeks ago	
4	Exam of B unit of Dhaka university will be help 3rd December.	3 weeks ago	
5	Exam of C unit of Dhaka university will be help 9th December.	3 weeks ago	

Figure 5.30: Notification List of Admin panel

The screenshot shows the 'All Questions List' in an Admin panel. The interface includes a sidebar with navigation options like Dashboard, Group, Universities, and Exam. The main content area displays a table of questions. The table has columns for 'No.', 'Question', 'Subject', 'Options', 'Correct Ans.', and 'Action'. There are three rows of questions listed.

No.	Question	Subject	Options	Correct Ans.	Action
1	Most of the members of this company are-----.	English	<ul style="list-style-type: none"> <li>mathematic teachers</li> <li>mathematics teachers</li> <li>mathematics teacher</li> <li>mathematic's teachers</li> </ul>	mathematics teachers	[Delete]
2	The prices for car can run -----Tk.4,00,000.	English	<ul style="list-style-type: none"> <li>as high as</li> <li>so high as</li> <li>as high to</li> <li>as high for</li> </ul>	so high as	[Delete]
3	Which sentence is correct?	English	<ul style="list-style-type: none"> <li>Very few writer in the Bangladesh are as skilled as Zakir Hussain in English Grammar.</li> <li>Very few writers in the Bangladesh are as skilled as Zakir Hussain in</li> </ul>	Very few writers in the Bangladesh are as skilled as Zakir Hussain in English Grammar.	[Delete]

Figure 5.31: Question List of Admin panel

### 5.3 Implementation and Interaction

In real world, almost everywhere we can find interaction [25]. Interaction is a way to make a system dynamic and attractive to the user. To keep this in mind we add some unique feature and provides information to the user.

### 5.4 Testing Implementation

As we work with website and application so some way to interact may change but initially it will be same when a user will operate the system [26], [27]. SO, we are doing testing for mobile application here because to run app we need to install that where a website doesn't require that. The test table are given below which will describe the system work or not. If it works then the result will be passed and we are eagerly expecting that result for all test case.

Table 5.1: Test case 01

Test Case 01	Install Application
Test Input	Tested on various Android Version up to Nougat
Expected Output	Successfully Install all the version
Actual Output	Install Successfully
Result	Passed
Tested on	03-11-2018

Table 5.2: Test case 02

Test Case 02	Supporting multiple screen
Test Input	Tested on multiple screen [small, large, medium]
Expected Output	Suitable fit on all screen
Actual Output	Fit on all of those screen
Result	Passed
Tested on	03-11-2018

Table 5.3: Test case 03

Test Case 03	Support landscape or portrait mode
Test Input	Tested on multiple modes [ landscape or portrait mode]
Expected Output	Suitable fit on all of those mode
Actual Output	Successfully fit on those mode
Result	Passed
Tested on	03-11-2018

Table 5.4: Test case 04

Test Case 04	Registration
Test Input	Without registration
Expected Output	View home pages and some information
Actual Output	Give access to the home page
Result	Passed
Tested on	03-11-2018

Table 5.5: Test case 05

Test Case 05	Complete registration
Test Input	Enter email address and password
Expected Output	Successfully registered and give access
Actual Output	Successfully registered
Result	Passed
Tested on	03-11-2018

Table 5.6: Test case 06

Test Case 06	Invalid user
Test Input	Enter email address and password
Expected Output	To warn correct information
Actual Output	Show warning message
Result	Passed
Tested on	03-11-2018

Table 5.7: Test case 07

Test Case 07	Invalid Password
Test Input	Enter email address and password
Expected Output	Warn to try forget password
Actual Output	Forget password message shown
Result	Passed
Tested on	03-11-2018

Table 5.8: Test case 08

Test Case 08	Find selected criteria
Test Input	Enter GPA of broad exam
Expected Output	Find related unit and university
Actual Output	Find for applying
Result	Passed
Tested on	03-11-2018

Table 5.9: Test case 09

Test Case 09	View Unit
Test Input	Go to the view unit option and click on it
Expected Output	Find a page with selected university's units
Actual Output	Find units of clicked university
Result	Passed
Tested on	03-11-2018

Table 5.10: Test case 10

Test Case 10	View details of unit
Test Input	Select unit and click on view details
Expected Output	Find all information about selected unit
Actual Output	All information found
Result	passed
Tested on	03-11-2018

Table 5.11: Test case 11

Test Case 11	View Subject
Test Input	Click on subject after logged in
Expected Output	Showing subjects with university name
Actual Output	Shown subjects
Result	passed
Tested on	03-11-2018

Table 5.12: Test case 12

Test Case 12	Give the model test
Test Input	Click the exam option & select subject
Expected Output	Showing question paper of selected subject
Actual Output	Shown question paper
Result	passed
Tested on	03-11-2018



Table 5.13: Test case 13

Test Case 13	Admin can add data
Test Input	Go to admin panel and click add option for the selected criteria [ like add university]
Expected Output	Successfully added
Actual Output	Shown the message
Result	passed
Tested on	03-11-2018

Table 5.14: Test case 14

Test Case 14	Admin can delete data
Test Input	Click delete button for the specific option
Expected Output	Successfully deleted
Actual Output	Shown message
Result	passed
Tested on	03-11-2018

Table 5.15: Test case 15

Test Case 15	Update user info
Test Input	Input all required area
Expected Output	Show user info updated
Actual Output	Showed message
Result	Passed
Tested on	03-11-2018

Table 5.16: Test case 16

Test Case 16	Upload Profile Picture
Test Input	Select profile picture
Expected Output	Shown “Successfully Upload picture”
Actual Output	Successfully showed message
Result	Passed
Tested on	03-11-2018

Table 5.17: Test case 17

Test Case 17	Logout
Test Input	Click the logout button
Expected Output	To logout from the account
Actual Output	Logout successfully
Result	Passed
Tested on	03-11-2018

## 5.5 Test Results and Reports

Test report refers the formal result after testing. It is a documentary report that obtained an evaluation experiment in an organization, describe environmental conditions and operations [28]. In chapter 5.4 after go through the test case it is clear the result of our project. As we said before if the system is worked perfectly then all test result will be positive scilicet it will be passed for all test case. If we look back to the test case result, all tests are passed for different test criteria. So, the application satisfied all demands and also made all features manifest.

Now, if we describe the result in a simple way as a user, then we can say this is

- Secure application
- Easy to use
- User friendly
- Better quality
- Better User interface
- Trustworthy Information
- Reduce waste of time
- Reduce dilemma
- Gather all different universities and job information

## **CHAPTER 6**

### **Conclusion and Future Scope**

#### **6.1 Discussion and Conclusion**

We have developed an educational website along with an android app. We are encouraged to develop this application because the world is running so fast. There is no way to think of wasting time. If it is the time of admission then there is no option but only study hard and prepare for the examination [29], [30]. But it is also necessary to be in touch with all news about admission exams or any notices. But all ways to know that are so time-consuming. Sometimes it becomes harder and students may skip some important notices due to lack of consciousness.

So, we find a better way to get in touch with all information about any kind of admission test from a single website. And get updated notifications and make it so smart by launching an android application.

#### **6.2 Limitations**

- Our application doesn't provide study references
- Our site doesn't relate all users in group discussions
- It doesn't give solutions of any question paper
- We don't have a mentor to give suggestions about admission tests.

#### **6.3 Scope for Further Developments**

- Our target is to fulfill all required information about admission tests all over the world like any scholarship examination.
- We will add a new feature to check model test answer sheets online.
- We will try to develop a mentor who will give suggestions about admission queries.
- We will add more additional features to make the site more dynamic and will create a bridge between all admission candidates who will be able to share or discuss their thoughts or experiences.

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## Appendix

### Sample Code:

Student Controller code

```
<?php
```

```
namespace App\Http\Controllers;
```

```
use Illuminate\Http\Request;
```

```
use Auth;
```

```
use App\student_info;
```

```
use App\User;
```

```
use App\University;
```

```
use App\Unit;
```

```
use App\Subject;
```

```
use App\Group;
```

```
use App\Question;
```

```
use App\ExamSubject;
```

```
use App\Answer;
```

```
use Hash;
```

```
use Session;
```

```
use App\StudentNotification;
```

```
use DB;
```

```
class StudentController extends Controller
```

```
{
```

```
    public function __construct()
```

```
    {
```

```
        $this->middleware('auth');
```



```

    $this->middleware('student');
}

public function index ()
{
    $notifications = StudentNotification::orderBy('id','desc')->get();
    return view('back.student.dashboard',compact('notifications'));
}

public function studentprofileview ()
{
    return view('back.student.profileview');
}

public function studentchangepassword ()
{
    return view('back.student.studentchangepassword');
}

public function studentpasswordupdate (Request $request)
{
    $request->validate([
        'old_password' => 'required',
        'new_password' => 'required|min:6',
        'confirm_password' => 'required|same:new_password',
    ]);
    if(Hash::check($request->old_password,Auth::user()->password))
    {
        User::find(Auth::user()->id)->update([
            'password' => bcrypt($request->new_password),
        ]);
    }
}

```

```

    return back()->with('status','Password Change Successfully!');
}
else
{
    return back()->withErrors('Old Password Do not match');
}
}

```

```

public function studentuniversities()
{
    $universities = University::all();
    return view('back.student.university',compact('universities'));
}

```

```

public function studentuniversityunit($university_id)
{
    $name    = University::findorFail($university_id);
    $ssc_gpa = student_info::where('user_id','=', Auth::user()->id)->value('ssc_gpa');
    $hsc_gpa = student_info::where('user_id','=', Auth::user()->id)->value('hsc_gpa');
    $total   = $ssc_gpa+$hsc_gpa;
    $group_id = student_info::where('user_id','=', Auth::user()->id)->value('group_id');
    $units   = DB::table('units')
        ->where([
            ['university_id','=', $university_id],
            ['required_ssc_gpa', '<=', $ssc_gpa],
            ['required_hsc_gpa', '<=', $hsc_gpa],
            ['required_total_gpa', '<=', $total],
            ['group_id', '=', $group_id],
        ])
}

```

```

        ->orWhere([
            ['university_id','=', $university_id],
            ['required_ssc_gpa', '<=', $ssc_gpa],
            ['required_hsc_gpa', '<=', $hsc_gpa],
            ['required_total_gpa', '<=', $total],
            ['group_id', '=', 4],
        ])
        ->get();

    return view('back.student.units',compact('units','name'));
}

```

```

public function studentapplyunit()
{
    $ssc_gpa = student_info::where('user_id','=', Auth::user()->id)->value('ssc_gpa');
    $hsc_gpa = student_info::where('user_id','=', Auth::user()->id)->value('hsc_gpa');
    $total = $ssc_gpa+$hsc_gpa;
    $group_id = student_info::where('user_id','=', Auth::user()->id)->value('group_id');
    $units = DB::table('units')
        ->where([
            ['required_ssc_gpa', '<=', $ssc_gpa],
            ['required_hsc_gpa', '<=', $hsc_gpa],
            ['required_total_gpa', '<=', $total],
            ['group_id', '=', $group_id],
        ])
        ->orWhere([
            ['required_ssc_gpa', '<=', $ssc_gpa],
            ['required_hsc_gpa', '<=', $hsc_gpa],
            ['required_total_gpa', '<=', $total],
            ['group_id', '=', 4],
        ])
        ->get();
}

```

```

    return view('back.student.applyunit',compact('units'));
}

```

```

public function studentunitssubjects($unit_id)
{
    $name = Unit::findorFail($unit_id);
    $subjects = Subject::where('unit_id','=', $unit_id)->get();
    return view('back.student.subjects',compact('name','subjects'));
}

```

```

public function studentsubjectlist()
{
    $ssc_gpa = student_info::where('user_id','=', Auth::user()->id)->value('ssc_gpa');
    $hsc_gpa = student_info::where('user_id','=', Auth::user()->id)->value('hsc_gpa');
    $total = $ssc_gpa+$hsc_gpa;
    $group_id = student_info::where('user_id','=', Auth::user()->id)->value('group_id');
    $units = DB::table('units')
    ->where([
        ['required_ssc_gpa', '<=', $ssc_gpa],
        ['required_hsc_gpa', '<=', $hsc_gpa],
        ['required_total_gpa', '<=', $total],
        ['group_id', '=', $group_id],
    ])
    ->orWhere([
        ['required_ssc_gpa', '<=', $ssc_gpa],
        ['required_hsc_gpa', '<=', $hsc_gpa],
        ['required_total_gpa', '<=', $total],
        ['group_id', '=', 4],
    ])
    ->get();
    return view('back.student.allsubjects',compact('units'));
}

```

```
}
```

```
public function studentimageupdate(Request $request)
{
    if($request->hasFile('user_image'))
    {
        $path = $request->file('user_image')->store('user_images');
        User::find(Auth::user()->id)->update([
            'user_image' => $path
        ]);
        return back()->with('status','Profile Picture Change Successfully!');
    }
}
```

```
public function studentprofileupdate($user_id)
{
    $old_info = User::findOrFail($user_id);
    $old_student_info = student_info::where('user_id','=',$user_id)->get();
    $groups = Group::all();
    return view('back.student.profileupdate',compact('old_info','$old_student_info','groups'));
}
```

Document Viewer

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