

**Final Year Report on Development of an Online
Admission Information System**

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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

DHAKA, BANGLADESH

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APPROVAL

This Project/internship titled “**Online Admission Information System**”, submitted by Mir Hamimul islam and Samsil Arafina Saki, ID No: 121-15-1801 and 152-15-5644 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 06 December 2019.

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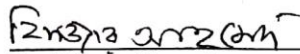
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Md. Sazzadur Ahamed, 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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At long last, we must recognize with due regard the consistent bolster and patients of our guardians.

ABSTRACT

Present time in our country, getting admitted to a good university is a huge challenge for regular student, this is because of the shortage of information, a student cannot figure out the proper place to get admitted. It is a large mistake to get accepted wrong university which can harm student's life. University life is a very golden time of all students. For the lack of information student can't select proper university that will damage their student life which is call the most precious time. For getting into proper university student must research all the information about a university.

For that reason we have developed website that can offer all the solution for these difficulties. Our project is to develop a website where a student can have all the data about any university. After compeering the given information students can take the appropriate choice for them. Student also can attend in a demo admission test which can develop more confident than before. They can have any kind of assistance from this website .we ensure that find out and get admitted into the appropriate university is no transcendental.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

In our country, after passing college level that is HSC or diploma level students have to get admission to universities for completing graduation. But students have to face many difficulties in this process. One of the main difficulties in finding the right information about the admission process. Students get confused when they want to find the information. They don't get sufficient information, due to this insufficient information they cannot get admission to their desired institute. There are two main types of universities

in Bangladesh [10]. They are-

- Public (government-owned and subsidized)
- Private (private sector owned universities)

There are 46 public universities and 80 private universities in Bangladesh. Different universities have different methods of admission. So it is hard to get knowledge of all these universities and compare them. Our project is to solve those problems. In our project, we are building a platform where universities can share their information and student can have that information in one place. Students can also post any problems and get help from others. This will make the admission system more easily.

1.2 Motivation

Most of the students don't have sufficient information about the admission system of all universities. For this lacking of information, students face many problems. Students get confused with the wrong information. Our project is to make provide the right information which will help the students to get the appropriate path. Without awareness of the admission system, many students cannot find the right institute for their graduation. In public and some private universities, there is an admission test system. The student

Will get test-related information on our website. Again there is an opportunity of the wavier system in some of the private universities depending on the result or many other criteria. The student will get details about the wavier system and can make a proper budget plan for their study. Students and also parents can compare different institutions depending on given information and can choose the right institute for them.

1.3 Objectives

The main aims and objectives of this project are given below:

- To provide the right information about the admission system.
- To find the university based on their budget.
- To compare and get the best one.
- To find the university in the desired area.
- To make awareness among students about the admission system.
- To save the time of getting lots of information about the different institutes.
- To gather all important information in one place.
- Save students from fake information and fake people.
- Gather all important information in one place.
- Collecting correct information.

1.4 Expected Outcome

- Students can get all the information on one platform.
- Save time of searching for different information from different places.
- Verification system confirms that there cannot be any fraud people who can Provide the wrong information.
- Confirmed security of the information.
- Students can compare universities and can choose the best university for them.
- Students and parents can search universities according to their budget.
- Students can give a demo admission test which will make them more confident.
- Universities can make publicity from the university.

CHAPTER 2

BACKGROUND

2.1 Introduction

In this chapter, we will talk about the background of the project. In this chapter, we will present some related works to our web application. Though there are no such projects which will fully be related to our project. Here we will describe some project which is mostly similar to this project. In the last part of this chapter, we will discuss web application and present a brief review of the technique which we use to build our website. PHP is very popular language we also use Laravel framework. 80% website all over the world is made by PHP, So we use PHP from IDE. Laravel, JQuery, Bootstrap as a framework. For our database we used MySQL. And for the language, we use Html, CSS, PHP

2.2 Challenges

We have to face many challenges to build the perfect project. That are Collecting correct information.

- We are depended on the University grants commission (UGC) website for information.
- UGC does not have any API by which we can gather information automatically
- We have two steps of email verification process but most of the public university
- There is no such project which is related to our project that's why we are not
- getting any idea from another website

2.3 Project Resource:

- Laravel framework
- MySQL database
- Web design
- Data collection
- Html, CSS, JQuery, Bootstrap as a framework

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Existing web applications

In our project, we are offering many benefits in one window. It will be help-full for Both universities and students as well as for parents. As we already show that this project will help to get information about the admission system moreover students can give test exams on our website. That means it covers many facilities in one platform. In our country, there is no such work which fully related to our project. There are

Somedifferent website which helps to get admission information but that only provide information about their institute. Again there is some website which allows getting help about admission test and take demo test. But on our website, we will provide all university information about the admission system and admission test process. Here we are giving those websites which are slightly similar to our website.

3.2 Bangladesh University of Engineering and Technology (BUET)

Bangladesh University of Engineering and Technology abbreviated as BUET. It is one of the most prestigious institutions for higher studies in our country. At present, BUET has eighteen teaching departments under five faculties and it has six institutes.

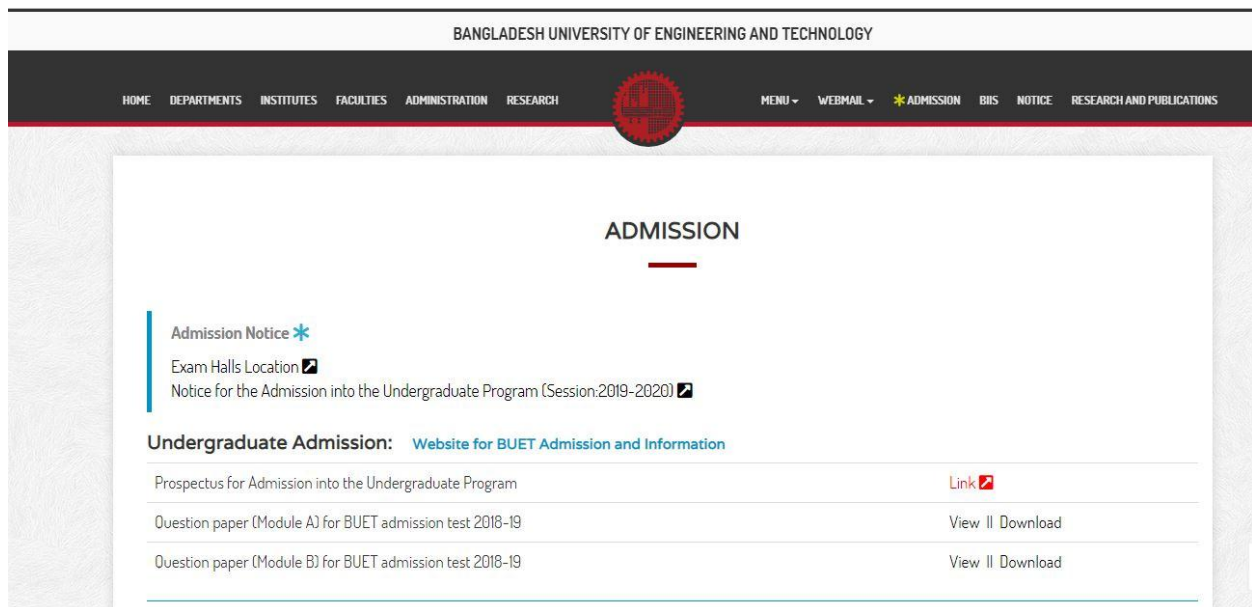


Figure 3.2 BUET website [6]

As a public university BUET has some different criteria for getting admission into it. There is an admission test system, but on their website, they don't provide much information about the admission test.

3.3 Daffodil International University (DIU)

Daffodil International University is one of the leading private universities in Bangladesh. It was founded in 2002 with the approval of UGC and Ministry of education

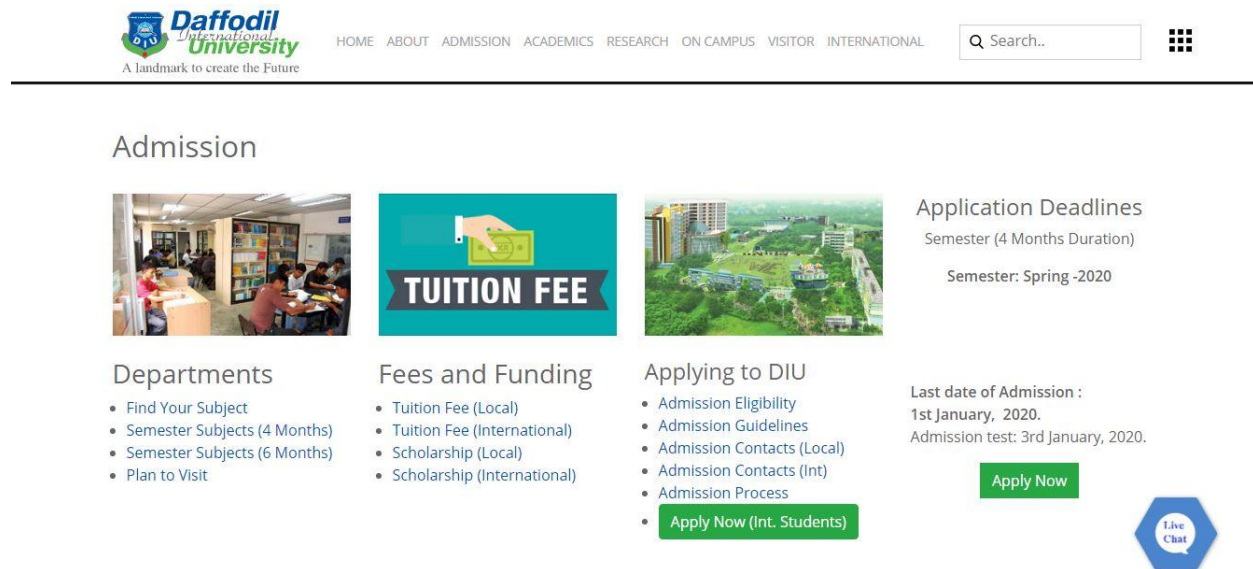



Figure 3.3 DIU website [1]

3.4 University of Dhaka

University of Dhaka opened its doors to students On the first day of July 1921. It has 13 Faculties, 83 departments, and 12 Institutes. The main purpose of the University was to Create new areas of knowledge and disseminate this knowledge to the society through its students.



ঢাকা বিশ্ববিদ্যালয়
ভর্তি কার্যক্রম ২০১৯-২০

কেন্দ্রীয় ভর্তি অফিস
কক্ষ নং - ২১৪, প্রশাসনিক ভবন
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ই-মেইল: admission@eis.du.ac.bd

টেলিফোন:
(০২)-৯৬৬৯৯৩৪, ০১৬৩১৯৫৩৮৪৩,
০১৬৪৩০৪২৮৬৪, ০১৮২২১৩৬৬০১, ০১৯৯৩৯৯২১৪৯
(০২)-৯৬৬৯৯৩৩ এরিট, ৪৩৫৩ (ক-ইউনিট)
৪৩৪১ (খ-ইউনিট), ৪৩৬০ (গ-ইউনিট)
৪৩৫২ (ঘ-ইউনিট), ৮৫৭১ (চ-ইউনিট)

লিঙ্ক:

- হোম পেজ
- নোটিশ
- চারি ওয়েবসাইট
- লগইন
- English Version

ঘ-ইউনিটের ফলাফল প্রকাশ করা হয়েছে। ফলাফল জানতে ওয়েবসাইটে লগইন করুন অথবা কোন মোবাইল (গ্রামীনফোন ব্যতীত) নম্বর থেকে প্রবেশ নির্দেশনা অনুযায়ী এসএমএস করুন।

ক-ইউনিটের ভর্তি পরীক্ষার সংশোধিত ও চূড়ান্ত ফলাফল প্রকাশ করা হয়েছে।

ঢাকা বিশ্ববিদ্যালয়

বাংলা লেখা দেখতে সমস্যা হলে এখানে ক্লিক করুন

গুরুত্বপূর্ণ তারিখ সমূহ
গার্হস্থ্য অর্থনীতি ভর্তি পরীক্ষা: ৮ নভেম্বর, ২০১৯
আই.বি.এ ভর্তি পরীক্ষা: ৮ নভেম্বর, ২০১৯
প্রযুক্তি ইউনিট ভর্তি পরীক্ষা: ২৯ নভেম্বর, ২০১৯

ভর্তির প্রাথমিক আবেদন সংক্রান্ত যে কোন কাজের জন্য নিচের 'লগইন' বাটনে ক্লিক করুন।

লগইন

গুরুত্বপূর্ণ লিংক সমূহ

সাধারণ নোটিশ

নোটিশ পেজ

সকল ইউনিট নোটিশ

Figure 3.4 Dhaka University [4]

On the website, they categorized the admission information into two types. One is for Bangladeshi students and another one is for international students, figure 2.4 shows that clearly.

3.5 Jahangir nagar University

Jahangir nagar University accustomed as a residential accessible university in 1970. Now it has 34 departments and Six Faculties along with two institutes, with added than fifteen thousand students, and about Five hundred academics adherent to teaching and research. The sprawling arresting campus is anchored 30 kilometers from the Basic Dhaka, able-bodied affiliated with a civic highway. The aboriginal assembly of Independent Bangladesh accepted university its Charter in 1973 beneath which the university is getting operated.



Figure 3.5 Jahangir nagar university website [3]

3.6 Green University of Bangladesh

Green University of Bangladesh (GUB), good private universities in Bangladesh. IT was founded in 2003 under the Private University Act 1992 with a vision to create global higher education center of excellence.

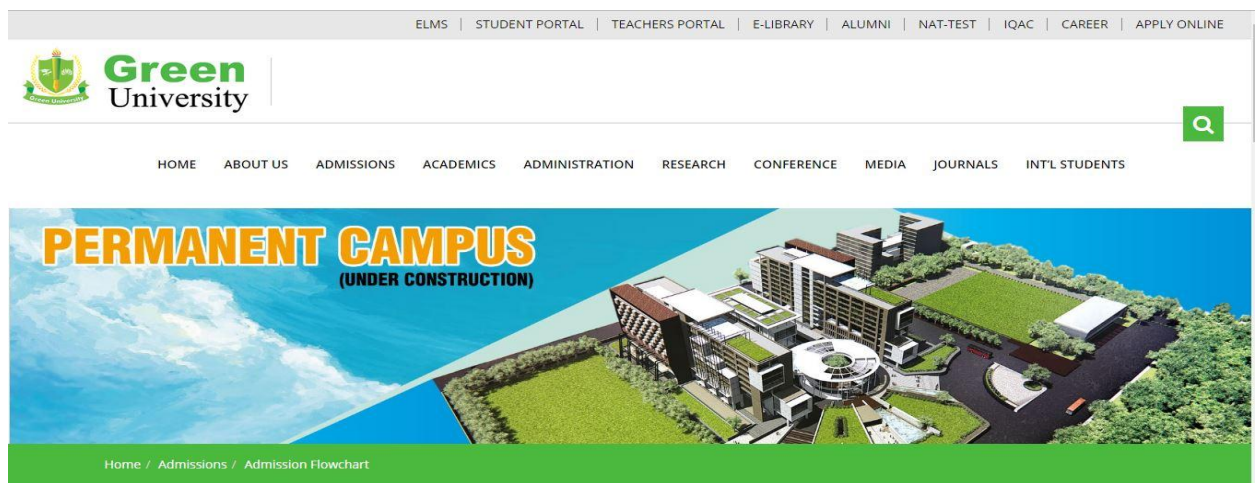


Figure 3.6 Green university website [2]

In the green university website, they present their admission information in the admission section with every detail. But they only provide information about their university. So students can only have the idea of getting admitted to the green university.

3.7 Admission war

Admission war is a website where a student can find many tips about admission tests at different universities especially public universities. They also provide information about school and college examination.



Figure 3.7 Admission war website [5]

In the admission war website, they provide information about admission circular, Admission tips and also provides a book that will help for the admission test. But they don't give information about the admission process of a private university.

3.8 Comparison between the existing system and our proposed system

1. University of Dhaka Give circular and information about Dhaka University. We provide public and private universities Information is providing by the website.
2. BUET gives Students can find admission information about BUET but cannot find help about the admission test. We provide besides getting information about admission tests and systems, students will get any type of help by asking a question and giving a test.
3. Green University Provides information about only their university admission system.
Provide information about all university admission system.
4. Jahangirnagar University Provide admission test result of their own university and
Our website does not provide admission test results.

3.9 Design Requirements

Requirements analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product. These features, called requirements, must be quantifiable, relevant and detailed. In software engineering, such requirements are often called functional specifications. There are two types of requirement for application which are-

- Functional Requirements
- Non-functional Requirements

3.10 Functional Requirements

The interdisciplinary field of engineering that concerns the design and maintenance of Complex systems are functional requirements that are part of requirements analysis. Functional requirements describe the desired end function of a system operating within regular parameters, to assure the design is adequate to make the desired product and the end product reaches its potential of the design to meet user expectations. Basic functional requirements of an e-commerce site are-

- Fast
- Responsive
- Smooth
- Personalized
- Accessible

According to those requirements, our website can fulfill all of them by providing Many facilities. Some of them are-

- Our web page loads fast.
- Our website automatically adapts to accommodate the device's resolution, screen size, and scripting abilities.
- It has a smooth checkout flow.
- the site contains the details of every product
- Using the blogging option it makes personalize the site.

3.11 Non-Functional Requirements

Nonfunctional Requirements (NFRs) define system attributes such as security, reliability, performance, maintainability, scalability, and usability. They serve as constraints or restrictions on the design of the system across the different backlogs. There are so many non-functional requirements for an e-commerce website. Our website meets most of those requirements.

Some of them are given below-

- Security.
- Privacy.
- Scalability and performance.
- Speed of services.
- Accessibility.
- Documentation and Usability.
- Search.

3.12 Software Requirements

IDE: PHP

Framework: Laravel, JQuery, Bootstrap

Database: Mysql

Language: Html, CSS, php

3.13 Use Case Modeling and Description

Use case diagram is a graphical depiction of the interactions between both the elements of system. A use case is a methodology used in system analysis to clarify and establish system requirements.

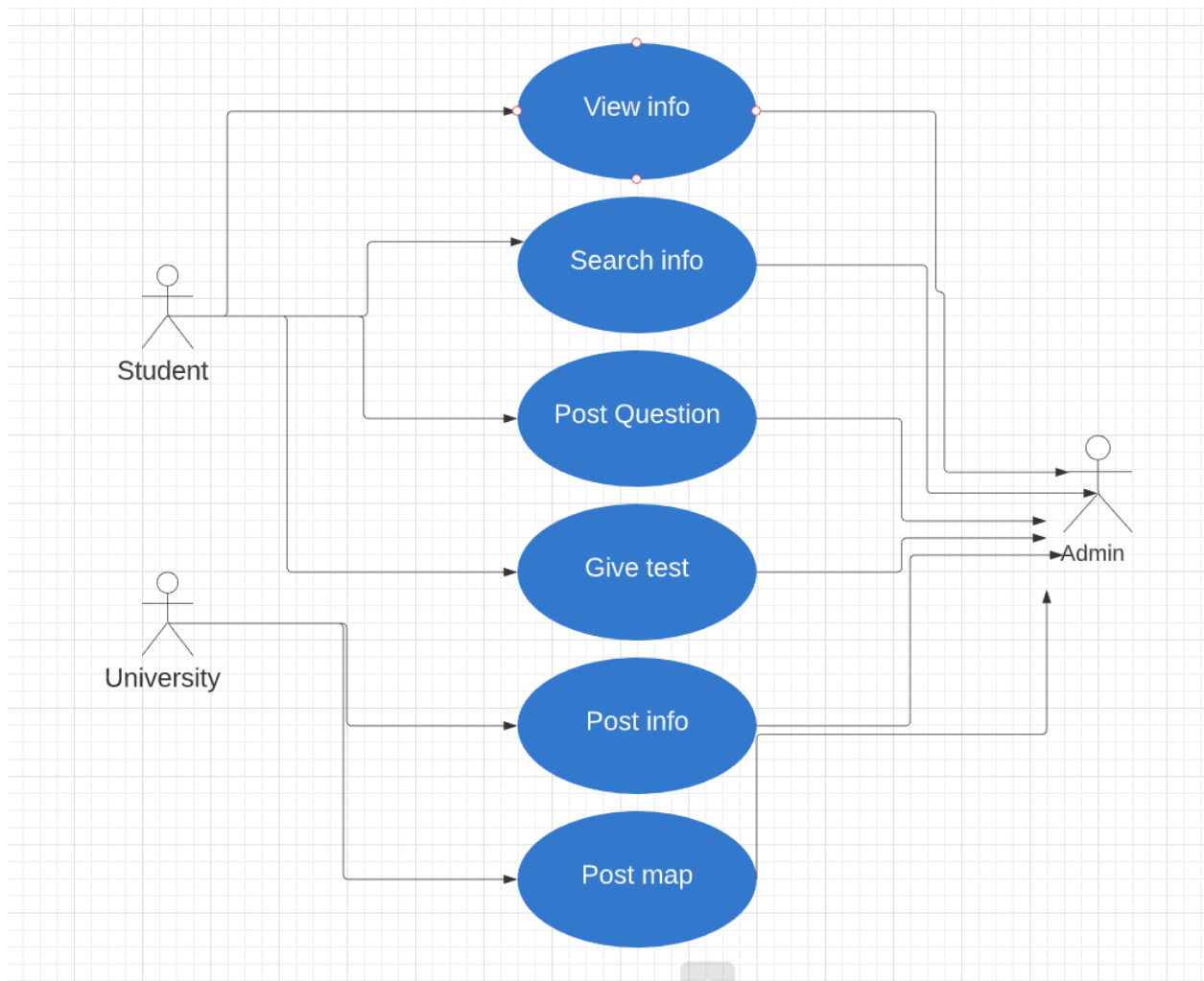


Figure 3.13 Use Case Diagram [8]

In this context, the term “system” refers to something being developed or operated, such as a mail-order product sales and service Web site. Use case diagrams are employed in UML, a standard notation for the modeling of real-world objects and systems.

In figure 3.2 we showed the use case diagram of our project. Where two users use different cases and admin maintain all of them.

3.14 Entity Relationship diagram and description

In database terms, a schema is the organization and structure of a database.[10] Schema contains schema objects, which could be tables, columns, data types, views, stored procedures, relationships, primary keys, foreign keys, etc. A database schema can be represented in a visual diagram, which shows the database objects and their relationship with each other.



Figure 3.14 Entity Relationship diagrams [9]

CHAPTER 4

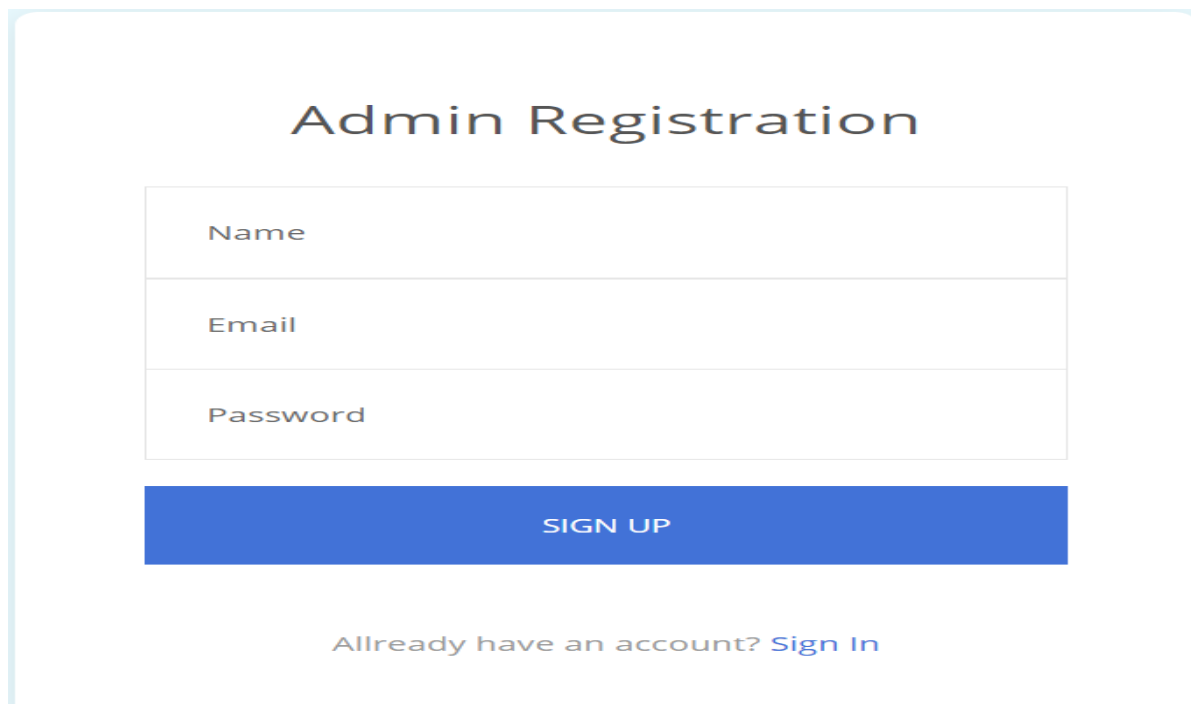
DESIGN SPECIFICATION

4.1 Interface Design

In this project there are two types of users, one is a university and another one is students. And an admin will manage all the activities. Depending on that idea we design our interface. In the subsections of these sections, we will provide a pictorial view of our project.

4.2 Registration

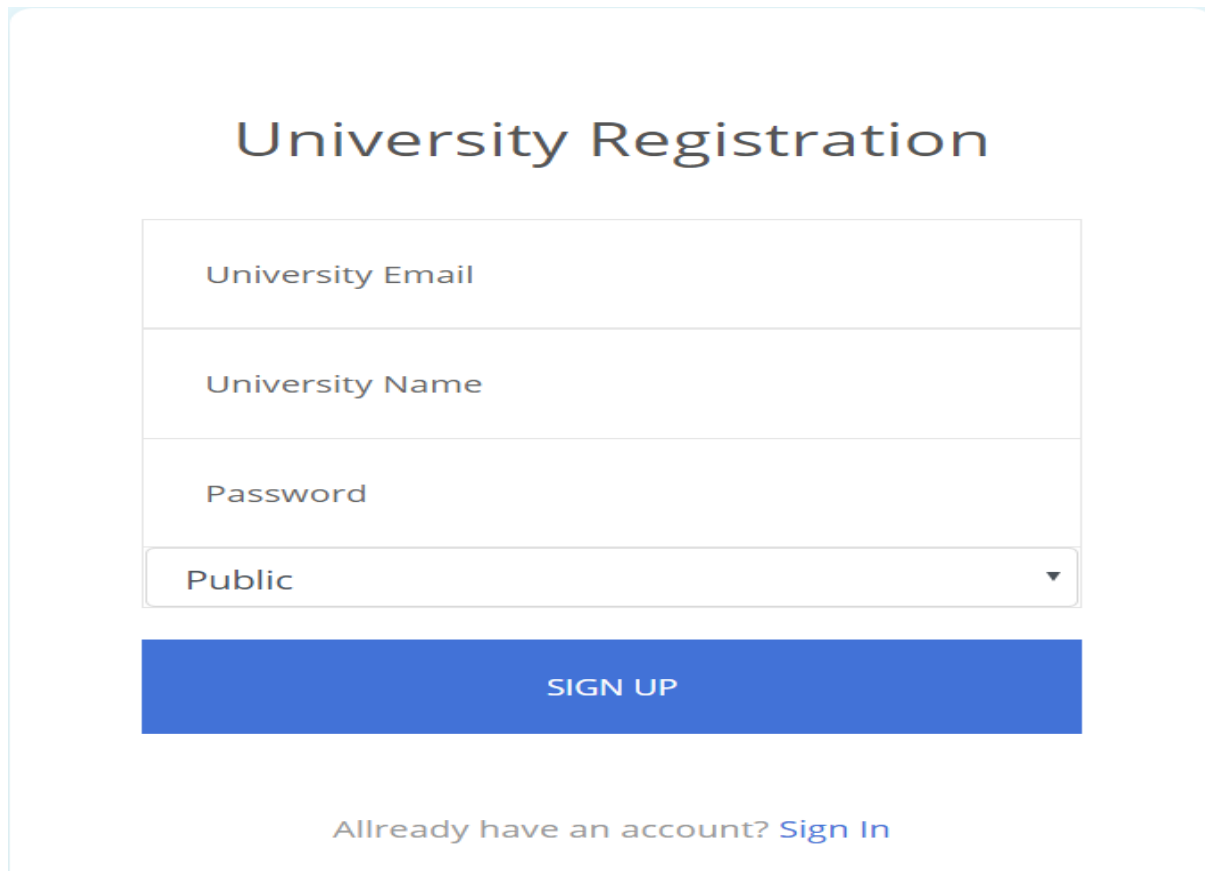
The first admin panel will have to register for maintaining all activity in the system. There is a registration form where admin will get registered with providing name, email, and password.



The image shows a web form titled "Admin Registration". It features three input fields: "Name", "Email", and "Password". Below these fields is a blue button labeled "SIGN UP". At the bottom of the form, there is a link that says "Already have an account? Sign In".

Figure 4.2 Admin Registration from

Students and universities will also have to get register in the system and this registration will be verified to maintain the security of the information and ensuring the right information.



The image shows a web form titled "University Registration". It contains four input fields: "University Email", "University Name", "Password", and a dropdown menu currently set to "Public". Below the fields is a blue "SIGN UP" button. At the bottom, there is a link that says "Already have an account? Sign In".

University Registration

University Email

University Name

Password

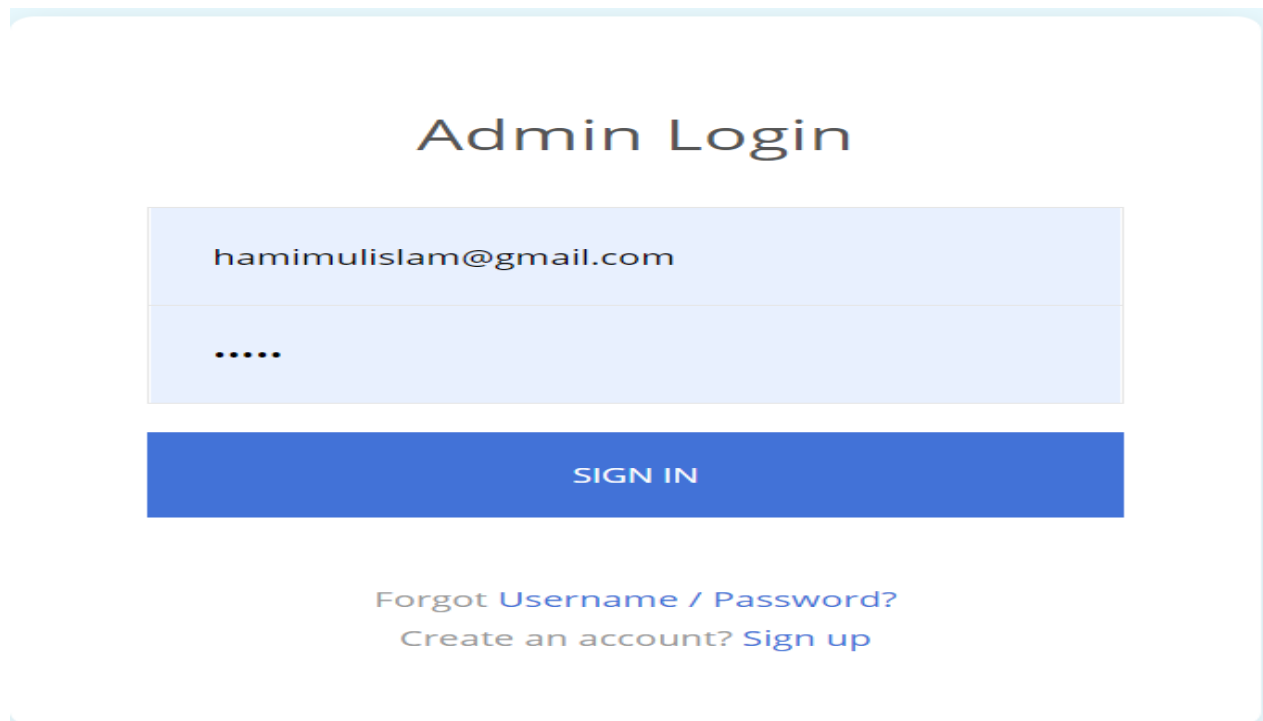
Public ▼

SIGN UP

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

Figure 4.2 University Registration from

4.3 Login



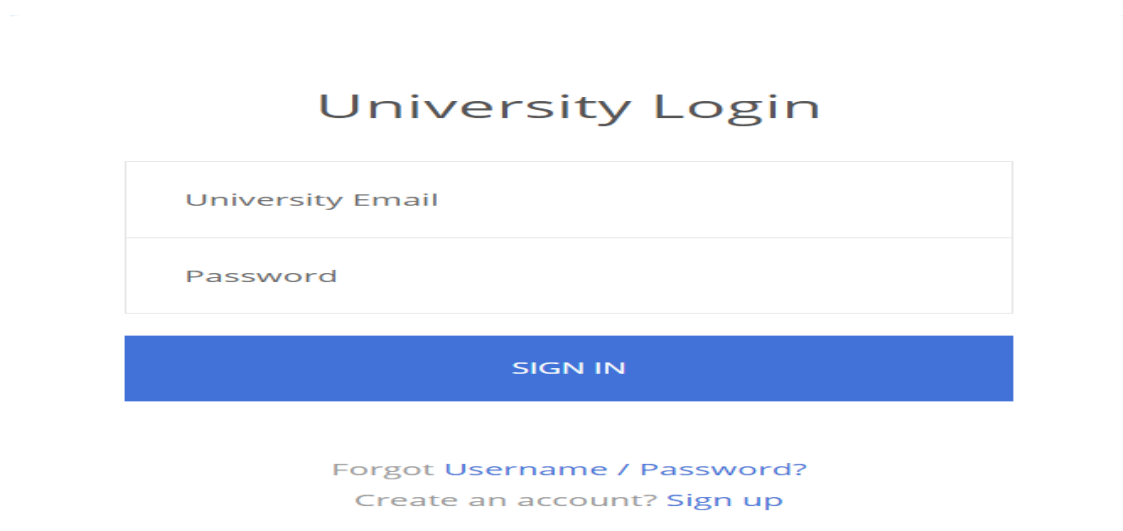
The image shows a web form titled "Admin Login". It features two input fields: the first contains the email address "hamimulislam@gmail.com" and the second contains six dots representing a password. Below the fields is a blue button labeled "SIGN IN". At the bottom of the form, there are two links: "Forgot Username / Password?" and "Create an account? Sign up".

Figure 4.3 Admin login

After the registration user can log in to the site with their email and password.

University and students will also get a login page every-time they try to get into the website.

University will have to provide a university email to login.



The image shows a web form titled "University Login". It features two input fields: the first is labeled "University Email" and the second is labeled "Password". Below the fields is a blue button labeled "SIGN IN". At the bottom of the form, there are two links: "Forgot Username / Password?" and "Create an account? Sign up".

Figure 4.3 University Login from

4.4 University Dashboard

After login university will get a dashboard where they can add their information and edit previous information. In university profiles, the university can add their departments, cost and university notice etc.

The dashboard interface includes a top navigation bar with the university name and a 'Logout' link. A sidebar on the left contains a 'Dashboard' link. The main content area is divided into several sections:

- Update Information:** A form with fields for phone number (2002), address (102, Sukrabad, Mirpur Road, Dhanmondi, Dhaka-1207), contact number (9138234), and website (www.daffodiluniversity.edu.bd), with an 'Update' button.
- Departments Table:** A table listing departments with delete buttons.
- Upload University Cover Photo:** A section with a 'Choose File' button (No file chosen) and a 'Submit' button.
- Department Management:** A section for 'Department Name: CSE' with a table of programs and a delete button.
- Course Information:** A form for 'Course: B.Sc in CSE' with fields for credit (146), cost (780000 Taka), total semester (12), and semester duration (4 Month/Semester).
- Input Weiver Information:** A section for 'B.Sc in CSE' with a dropdown menu, a score field (>=3.90), and an 'Add' button.

Departments	Delete
CSE	<input type="button" value="x"/>
BBA	<input type="button" value="x"/>
SWE	<input type="button" value="x"/>

Programs	Delete
B.Sc in CSE	<input type="button" value="x"/>

Course: B.Sc in CSE
Credit: 146Credit
Cost: 780000 Taka
Total Semester: 12
Semester Duration: 4 Month/Semester

Input Weiver Information
B.Sc in CSE
>=3.90
80

Figure 4.3 University Dashboard

4.5 Information pages

There is three type of university in our country public and private and medical. For getting the informationthere will be three options. After clicking the public it will show the informationabout public universities and the same for the private option and medical. Figure 4.1.6 is showing the options.

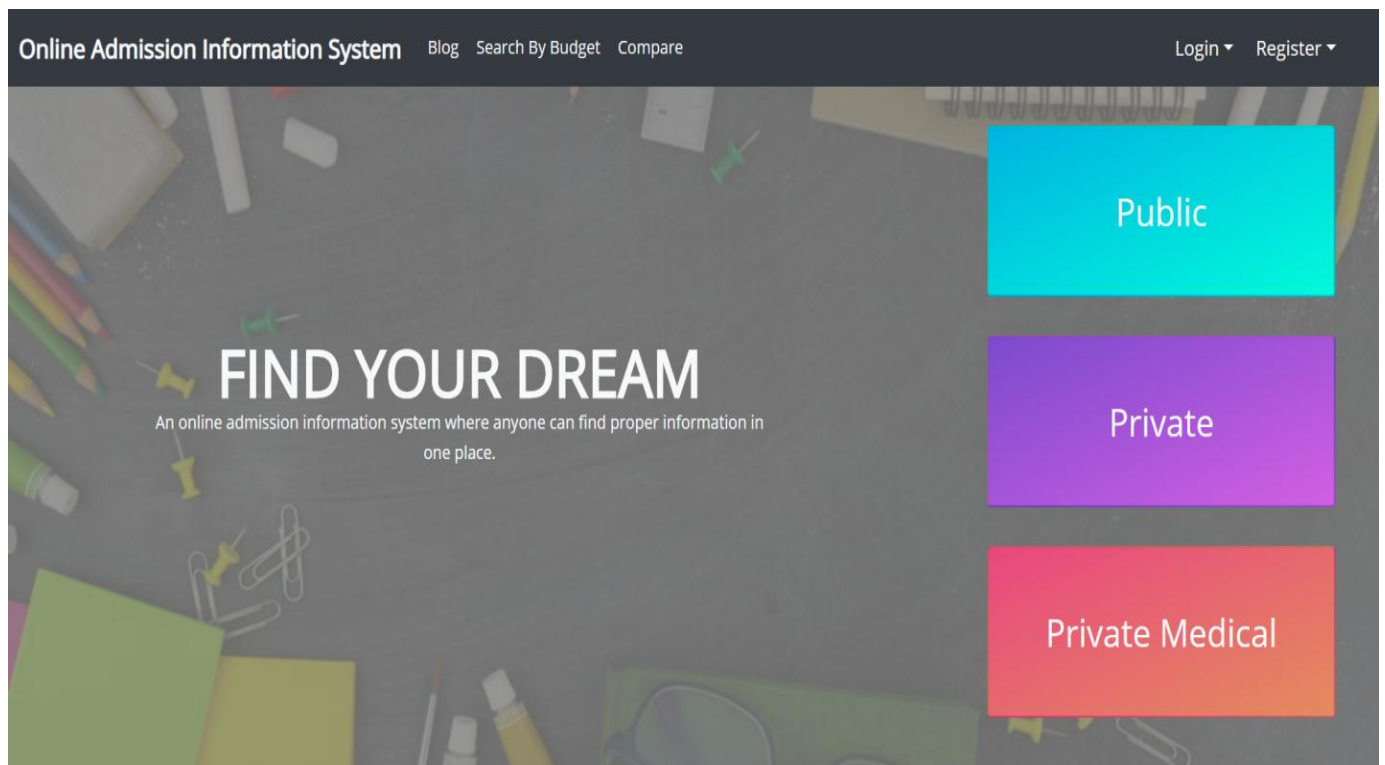
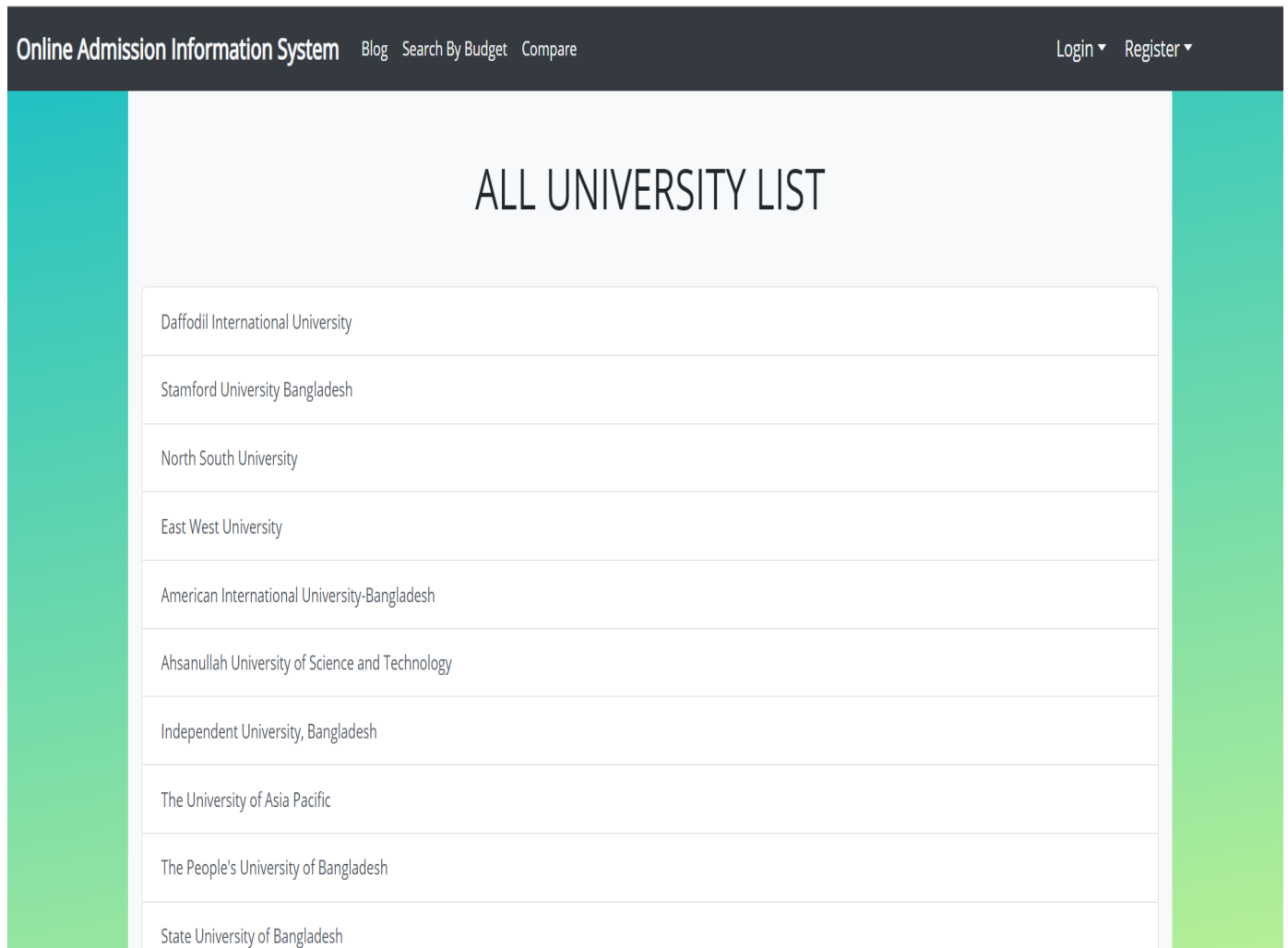


Figure 4.5 public private and private medical university option

4.6 University list

As we depicted in figure 4.1.7, there will be the university list for the students. Students can get information after clicking the university. When they click individual university they can found all information which is very important for them.




The screenshot shows a web interface for an 'Online Admission Information System'. At the top, there is a navigation bar with links for 'Blog', 'Search By Budget', and 'Compare', along with 'Login' and 'Register' options. The main content area is titled 'ALL UNIVERSITY LIST' and contains a table with ten rows, each representing a different university.

University Name
Daffodil International University
Stamford University Bangladesh
North South University
East West University
American International University-Bangladesh
Ahsanullah University of Science and Technology
Independent University, Bangladesh
The University of Asia Pacific
The People's University of Bangladesh
State University of Bangladesh

Figure 4.6 University list

4.7 University information

After clicking on one university from the list of university student will get information about the university. Suppose here is daffodil international university site information. Student can collect Address, department information and also see their notice board



Home Department Information Notice Board

University Details

Established Year	2002
Address	102, Sukrabad, Mirpur Road, Dhanmondi, Dhaka-1207
Email	info@daffodilvarsity.edu.bd
Website	www.daffodilvarsity.edu.bd

Figure 4.7 Daffodil International University Info

According to figure 4.8 students can get an idea about the university. One can know the wavier system and many more.

4.8 Student Question

Students can ask a question about any university information. And get help from other Members.

The screenshot shows a web interface for an "Online Admission Information System". At the top, there is a dark header with "Online Admission Information System" on the left and "Login / Registration" on the right. The main content area features a question: "When is the deadline for DU A Unit? And Also what is the necessary papers that should be included?" attributed to "Omar Faruk". Below the question is a "Leave a Comment:" section with a text input field and a "Submit" button. Underneath, there are four placeholder comments, each with a "Commenter Name" and a paragraph of Lorem Ipsum text. A "Go" button is visible at the bottom right of the comment section. A watermark "Activate Windows" is present in the bottom right corner.

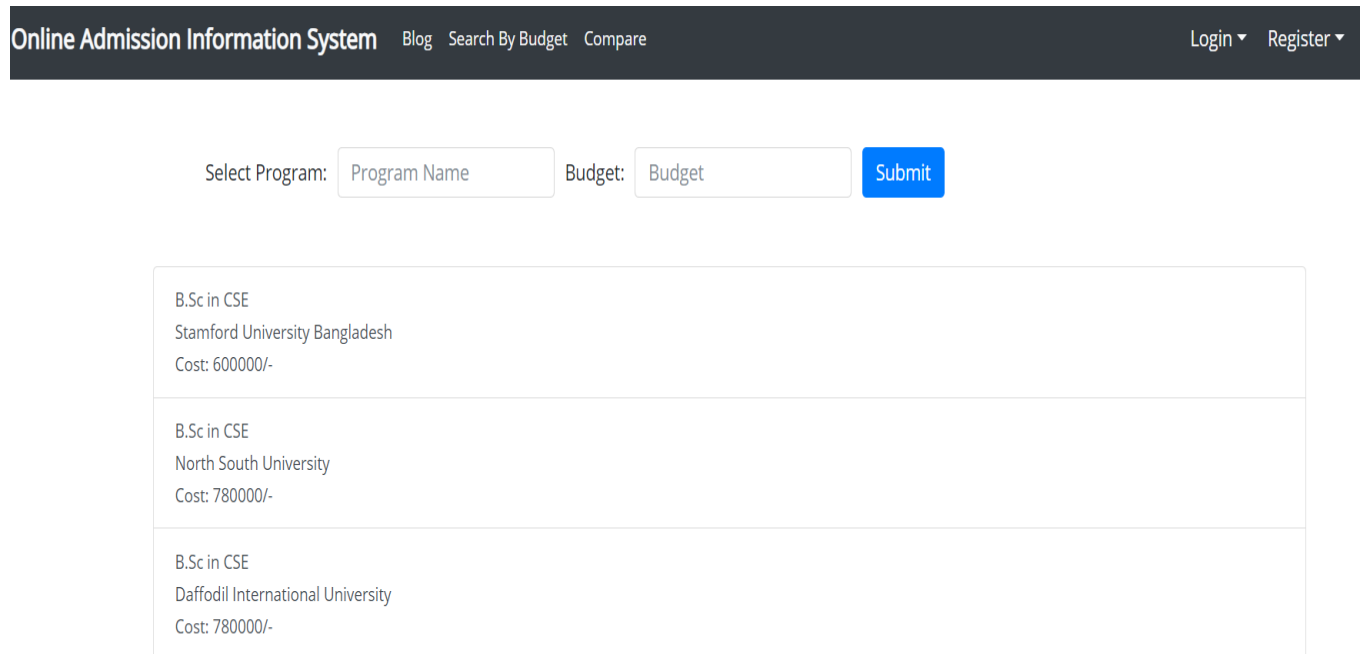
Figure 4.8: Student post

The screenshot shows a search page on the "Online Admission Information System". The header includes "Online Admission Information System" and "Login / Registration". A search bar is located at the top, with a "Search for..." input field and a "Go!" button. Below the search bar, there are three "Question" cards. Each card contains a title "Question", a paragraph of Lorem Ipsum text, and a "Read More" button. The first two cards also include a "Posted on January 1, 2017 by Start Bootstrap" line. A "Go!" button is visible at the bottom right of the question cards. A watermark "Activate Windows" is present in the bottom right corner.

Figure 4.8 Student post

4.9 Search perfect option

According to the student budget, students can search for university and can compare the options. And can find the best result from them.



Online Admission Information System [Blog](#) [Search By Budget](#) [Compare](#) [Login](#) [Register](#)

Select Program: Budget:

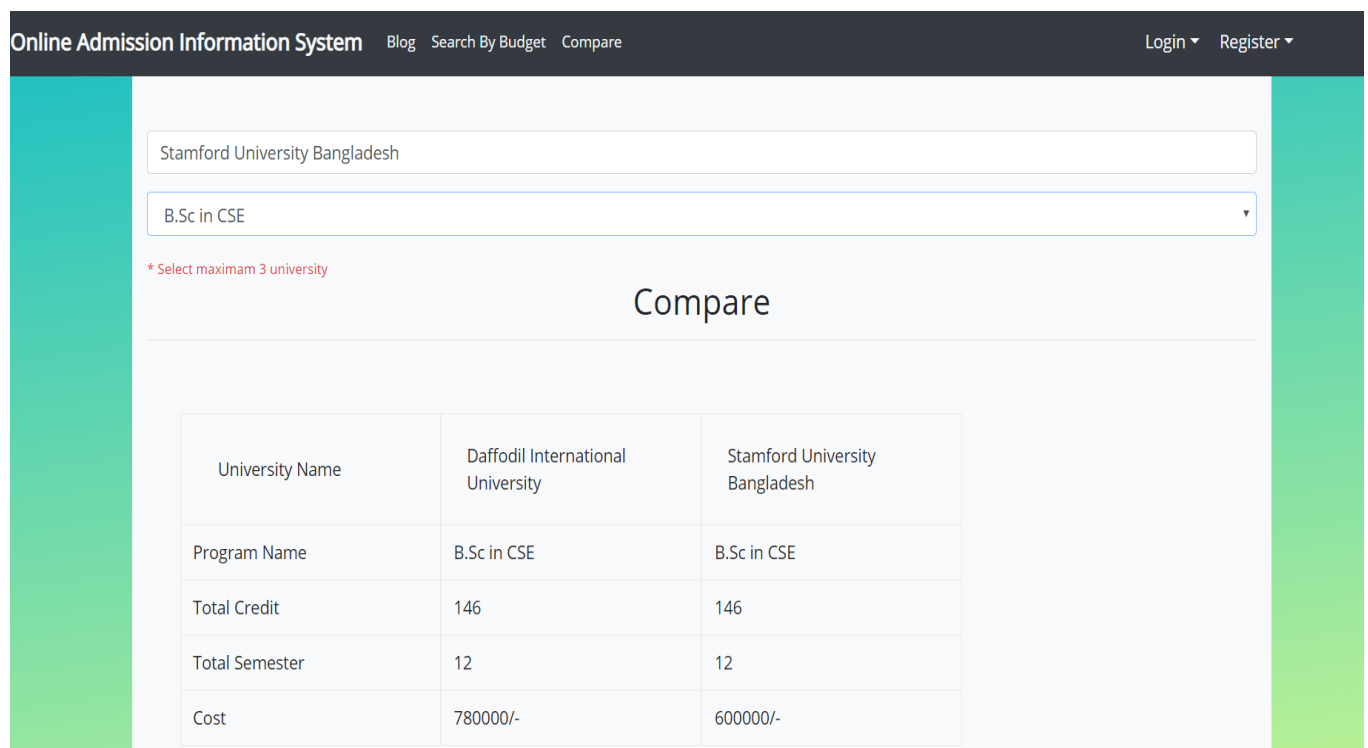
B.Sc in CSE Stamford University Bangladesh Cost: 600000/-
B.Sc in CSE North South University Cost: 780000/-
B.Sc in CSE Daffodil International University Cost: 780000/-

Figure 4.9 Searchby Budget option in University

In this chapter, we showed some images of the main project from that anyone can get the idea out of our project. Those images define the process of our project with the visualization.

4.10 University comparison

Student can compare some university, here they can see at the same time 3 university side by side , they can see university department information, budget information, total credit and total semester information too.



The screenshot displays the 'Online Admission Information System' interface. At the top, there are navigation links for 'Blog', 'Search By Budget', and 'Compare', along with 'Login' and 'Register' options. The main content area features a search bar containing 'Stamford University Bangladesh' and a dropdown menu set to 'B.Sc in CSE'. Below this, a red asterisk note reads '* Select maximum 3 university'. The central heading is 'Compare'. A table below compares two universities:

University Name	Daffodil International University	Stamford University Bangladesh
Program Name	B.Sc in CSE	B.Sc in CSE
Total Credit	146	146
Total Semester	12	12
Cost	780000/-	600000/-

Figure 4.10 University comparison

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Requirements for Implementation

After arranging one point will come that's implementation and after that testing, in this session, I will discuss implementation and testing in my project. Some of the

Features were implemented and some were not due to some difficulty. But the overall performance of the system is satisfying and it's ready for production.

Testing is required for knowing all the function of the project is working successfully or not.

For implementing this project first of all we need,

1. A domain
2. A hosting
3. University API
4. Map impalement

If we have these we are ready to run our project. Then for the user specification, we need to attract visitors like students and universities. Also, Admin should store

the emails by communication with the university before registration. When a university registers in our system students will get all the detail by browsing our site.

If we did get the university API then data management would be much more efficient. Now we have to manually set data in the database which is a dummy data set and might be conflict with the original data.

Google Map API is much more costly now days. That is why we could not use the Google map in our system. The reason we could not show the university location.

Price of domain and hosting is playing a major limitation for our system. There are a lot of free hosting websites available but they do not provide good service. That is

Why we could not host our site for production use.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion

In this last chapter, we talk about the advantages of the project that is we try to represent the advantages of the project. Then everything has some limitations. Our project also has some limitations. We have discussed those limitations in this chapter. Also, we talk about the plans of us that is what we will add in the project in the future.

6.2 Conclusion

Different universities have different methods of admission. So, it is hard to get knowledge of all these universities and compare them. Our project is to solve those problems. In our project, we are building a platform where universities can share their information and students can have that information in one place. Students can also post any problems and get help from others. This will make the admission system easier. Most of the students don't have sufficient information about the admission system of all universities. For this lacking of information, students face many problems. Students get confused with the wrong information. Our project is to make provide the right information which will help the students to get the appropriate path. Without awareness of the admission system, many students cannot find the right institute for their graduation. In public and some private universities, there is an admission test system. The student will get test-related information on our website. Again there is an opportunity of a wavier system in some of the private universities depending on the result or many other criteria. The student will get details about the wavier system and can make a proper budget plan for their study. Students and also parents can compare different institutions depending on given information and can choose the right institute for them.

6.3 Scope for Further Developments

In the future, we will develop our work. Developing a process is very important for any project.

We have many plans for our future work. Those are given below-

- We will add the admission process more elaborately. That is we will add a suggestion, Previous admission questions, solution of the question, etc.
- In the future, we will add information about international universities for higher Studies.
- Now we are only providing information about universities but in the future, we Will also add college and school-level information.

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