

Design and Development of a Campus Recruitment System

BY

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

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APPROVAL

This Project/internship titled “**Design and Development of a Campus Recruitment System**”, submitted by Md. Rasel Hossain, ID No: 152-15-6234 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 December 7, 2019.

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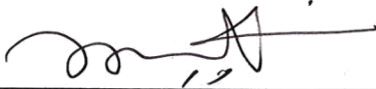
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I hereby declare that, this project has been done by me under the supervision of **Fahmida Afrin**, daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, I must acknowledge with due respect the constant support and patience of my parents.

ABSTRACT

“Design and Development of a Campus Recruitment System” is a web-based online archive system for the students of DIU. This is a collaborative platform for Students and job offering companies. In this platform, the students of Daffodil International University will get all kinds of job information, the opportunity to apply for a vacant position in the company from the website if they qualify, latest job-circulars. The site will provide different kinds of the company’s name, and company’s present vacancies, companies’ direct link for applying on the vacancies, the news about latest job circulars especially part-time jobs, which are available for the students so that, a student can join any job before or after their graduation from DIU. There is also a real-time commenting section so that after posting any job circular, students can ask anything related to the circular. The companies and students both can contribute to this system. The admin will be able to track down the progress of the whole system in real-time. This website will assist our students in a very effective way. It will help them to find job vacancies for them, which will finally lead them to their desired job position.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

The purpose of this system is mainly creating job possibilities for the students of DIU. In university, there a lot of students who need to make money for personal financial problems during studying. For them, we are creating this system so that students can get possibilities for joining part-time jobs and can solve their financial problems. Along with this, after graduation, students can't be able to know about many job circulars of many companies, but the companies provide vacancies at that time. So, I made this system so that it can help the students of DIU before and after their graduation.

1.2 MOTIVATION

My motivation is those students who have financial problems. In developed countries students can do part-time jobs, along with their studies. Besides this, companies send a list of job vacancies to different universities every month so that, if they are qualified, they can join in companies. From this system, I got inspired to make this so that our students of DIU can also get that type of opportunity.

1.3 OBJECTIVE

The main objective of this website is to provide a well collaborative system between students of DIU and different companies. Now the students will have the opportunity to find out their desired jobs. This is less time-consuming. Using our system, they can get all job lists, job opportunities, job details, and direct links of applying in the job.

1.4 EXPECTED OUTCOME

The expected outcomes of this website will be tremendous. Students who have skills can apply for a job position, and those who don't have the qualification can prepare them for the qualification. Along with this, the companies will also be benefitted. They won't spend money on advertising for their job vacancies. So, in one sentence, students and companies both will be profited from this website.

1.5 LAYOUT OF THE PROJECT

I developed a website name “Campus Recruitment”. I need to make sure that the project is completed within time. According to my workflow I designed this project report.

Chapter 2 is known as **Background discuss** where the Introduction, Related Works, Comparative Studies, Scope of the Problem, Challenges are discussed.

Chapter 3 is concerned about **Requirement Specification** which discussed about the Business Process Modeling, Requirement Collection and Analysis, Use Case Modeling and Descriptions, Logical Data Model, Design Requirements.

Chapter 4 I discussed about the **Design Specification** where discussion about the Design about Front-end, Design of Back-end, Interconnection design and UX and Requirement implementations.

Chapter 5 I cleared about **Implementation and Testing**. Here I described about the Database of an Implementations, Design of Front–end implementations, Implementations test & results and reports.

Chapter 6 I talked about **Conclusions and Discuss** matter and about the upcoming Scope of this full project.

.

CHAPTER 2

BACKGROUND

2.1 INTRODUCTION

In this segment, I will discuss all the necessary steps that I am going to need to take into consideration before approaching ahead. Getting good and quality jobs for solving financial problems, making good carriers are still difficult for our students. From this point of view, I took this step so that I can make try to solve the financial problem of the students of DIU and can create opportunities for their future. Here we want to discuss all related works briefly.

2.2 WORKS RELATED TO PROJECT

In our advanced period there are a great deal of utilization which is identified with this application however they are not same. A portion of these kind of use notice underneath. Every one of we think around ten minutes school. In this video application an understudy, do not have to put id, email, secret phrase and different subtleties. Simply straightforward need to like the page and learn via looking through what sort of hypothesis he needs to learn. Another is Google Classroom. In this framework, the instructors make a code for the understudies. After that, the understudies make the code and related with the class.

2.3 COMPARATIVE STUDY

There are many websites like this on the internet, but in Bangladesh, there are no types of sites for any specific universities. There are many job search websites in Bangladesh, such as bdjobs.com. But that websites are too complicated and searching CSE related jobs, and part time jobs are a little bit difficult. The site which I have made has a simple user interface, and it takes less time to find out CSE related job opportunities, job circulars, requirements of job circular, etc. So, this website will be user-friendly.

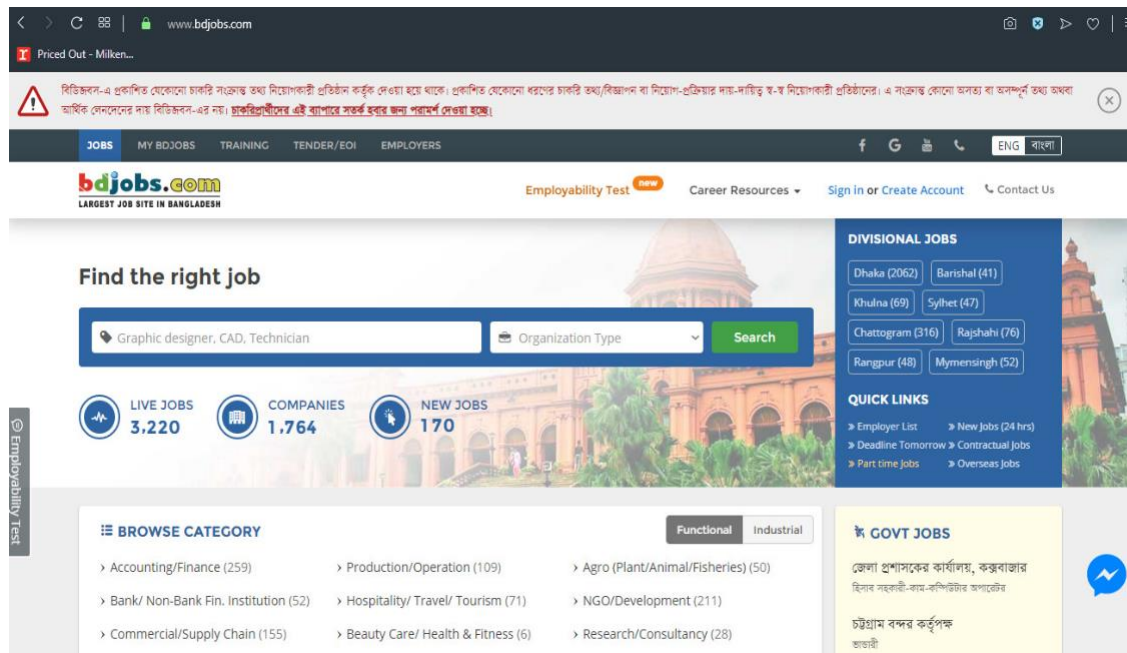


Figure2.1: Bdjobs.com

LinkedIn is a job searcher apps where many students search there job.P
eopleoftenly know about this website.

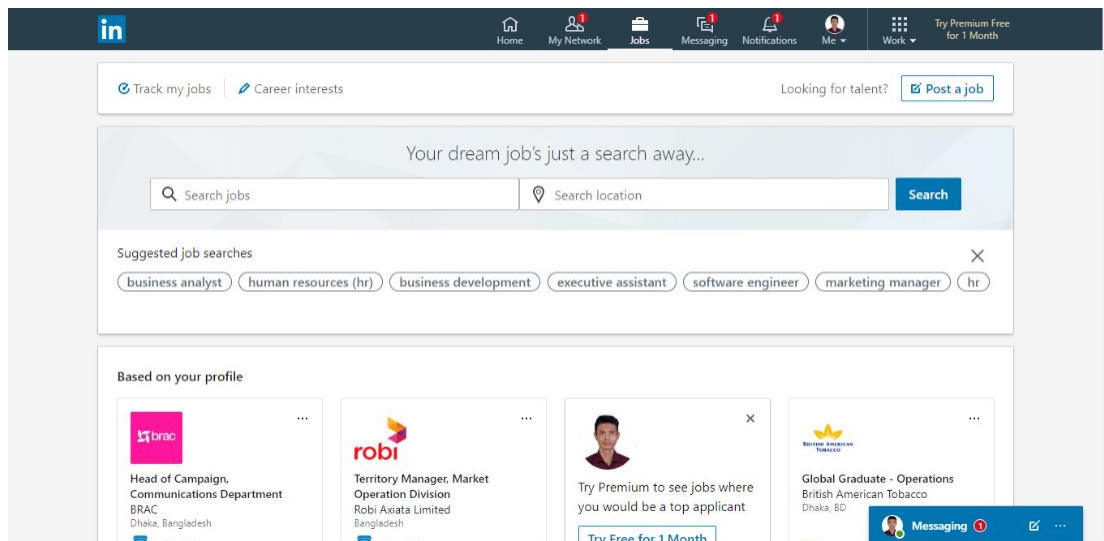


Figure2.2: linkedin.com

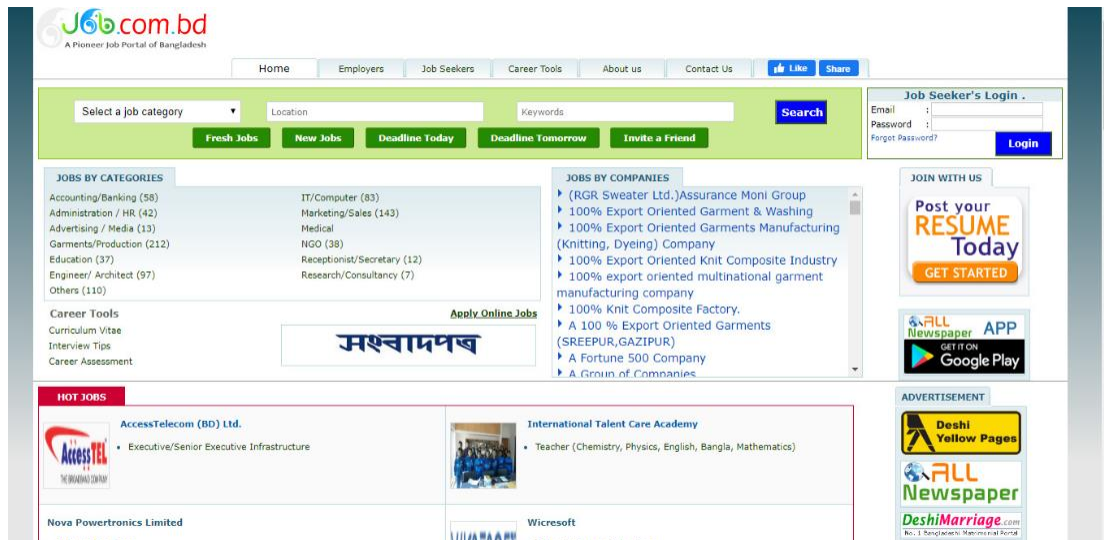


Figure2.3:job.com.bd

2.4 SCOPE OF PROBLEMS

By doing this task, I have found some issues. A portion of the issues is given below:

This website will help the students to find job opportunities.
It is a self-appraisal framework.

Many opportunities are present for the students to join in the job.
b. Complete the test in a brief span.

Share comments about the jobs.

From anywhere students can apply for job.
It is totally free for DIU students.

Less time consuming to find work.

For companies, the benefits are:

No need to advertise anywhere by payment.
Simple way to post vacancies.

Save time for choosing right candidate.
Circular publication is easy.

Can give answer to the comments about their jobs.

2.5 CHALLENGES

As all development type projects have to face tremendous difficulties. Likely others, I had also faced problems. Some of the issues were common for all development of projects. Designing a useful Database is the main challenge for all kinds of developmental projects. Without it, the heart foundation of the project will fail. Managing the quality of the appendices and providing them to the students. Because providing faulty tools can create enormous confusion and confusion among the students and the companies. It can destroy the entire plan for which I had wanted to do this project. Then controlling the dynamic comment section is also a hard task. Any inappropriate comment is not allowed in the system. I also expect that any inappropriate comments won't come on the website.

CHAPTER 3

REQUIREMENTS AND SPECIFICATION

3.1 BUSINESS MODEL OF PROCESS

Model of process gives a visual description of how the full system works in a Harmony. The process is shown in the following figure.

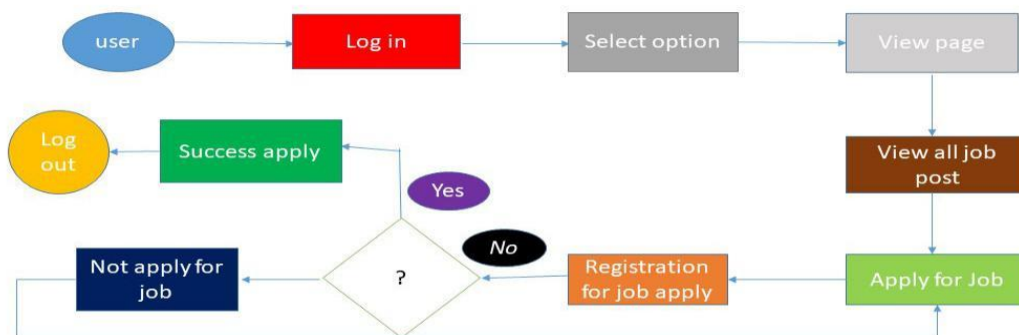


Figure 3.1: Business Model of User

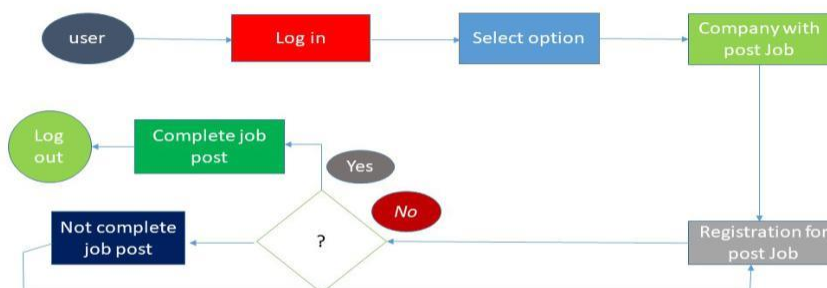


Figure 3.2: Business Model of Company

3.2 REQUIREMENT COLLECTION AND ANALYSIS

The system is based on providing data. Along with CSE students, all students of DIU can use this website. For using this website, they have to register first. For registration purposes, the student has to provide their DIU provided id. They can also use personal email, but in this case, they have to show some proof that they are the student of DIU. And for the registration purpose of the company, the verification of the company will be done. It will be investigated that the companies which are posting jobs are real or not. Any fraud company won't get a chance to post fake job opportunities here. The company should give some license or any other thing which can verify it.

Requirement of software:

1. User.
2. Log in system by admin.
3. Log in system by student.
4. Log in system by company.

Hardware and Software for this project:

When we download a product and equipment for our PC, we have to sure that it will be pertinent for the PC. Our PC need to perform for this PC in a legitimate manner. Here we utilize some product and equipment for this task are:

1. Xamp server.
2. SQL server.
3. Composer.
4. Subline text.

3.3 USE CASE MODELING AND DESCRIPTION

Use case model by the different types of users of a system and their fields of activities. In this following model the activities of admin and users are represented graphically.

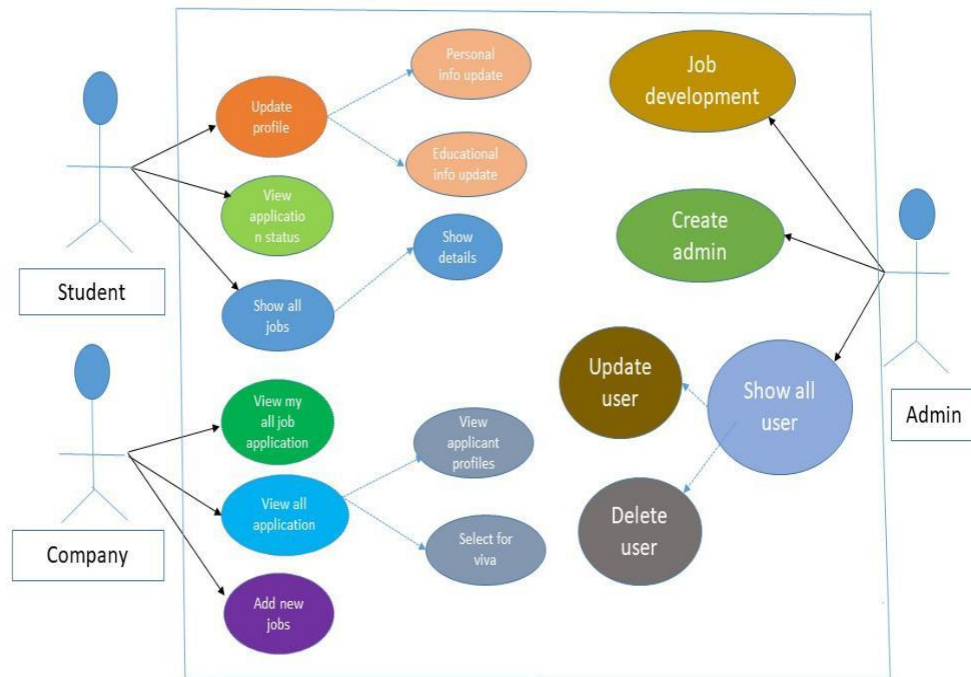


Figure 3.3: Graphical representation of Use Case Model Diagram

Use Case (1) is Login Page

Primary Actors are: Admin, Student, and Company.

Precondition: Must have Email and secret key.

Input Scenario:

1. Email field in the puts Email ID.
2. Password field in the puts secret word.

Outcome Scenario:

Email ID must be valid.
Password isn't right.
Password is empty.

Use Case (2) is the part of the Register Primary

Actor: User/Student, Company. **Precondition:** Must have email account and password.

Main Scenario:

1. Need to place name in the name area.
3. Put Email ID in Email field.
4. After the majority of that at that point go to the framework

Outcome Scenario:

Email ID must be valid.
Password is empty.

Use Case (3) is Apply for Jobs

Primary Actor: users/students.

Precondition: User must be signed in.

Main Scenario:

1. User need to the finish apply of the system.
2. Must need to sign into the framework.

Output Scenario:

Process is not completed.
Password is incorrect.

Use Case (4) is Category of jobs

Primary Actor: User/Student

Precondition: User must be logged in.

Main Scenario:

1. User need view all jobs
2. User need apply this job.

Output Scenario:

User view successful apply.

Use Case (7) is view of user.

Primary Actor: Admin.

Precondition: Must be logged in.

Main Scenario:

1. Places Email in email area.

Output Scenario:

Email ID should be significant.
Password is incorrect.

Use Case (8) is insert admin panel.

Primary Actor: Admin.

Precondition: Must be logged in.

Main Scenario:

1. Puts Email id in the segment of email area.
2. Insert jobs opportunities.

Output Scenario:

Password must be right.
Works as a subject user.

Use Case (9) is to put insert user.

Primary Actor: Admin, User

Precondition: Admin must be logged in.

Main Scenario:

1. Put Email id in Email division by the user.

Output Scenario:

Mail must be valid.
Password is wrong.

3.4 LOGICAL DATA MODEL



Figure 3.4: Graphical representation of Logical Data Model D diagram

3.5 REQUIREMENTS OF THE DESIGN

The design requirements of our system is so unique. We designed our database in a decorative and proficient way that it can give proper output in a short time. All data requirements are arranged in separated form. The system has different segments for Admin, Teacher and students. These three characters has their individual database structures. The design of our database is easy to observe and interact.

CHAPTER 4

DESIGN SPECIFICATION

4.1 FRONT-END DESIGN

Login interface design.

Registration interface design.

Layout design.

Activities and monitoring section design.

Comment Section Design.

4.2 BACK-END DESIGN

Whole process will be divided into three parts (Student, Company and Admin). All of them have to go through registration and login system.

Getting job vacancies through website.

Adding job circular from different sources. Saving activities Mechanism

Live commenting Mechanism

4.3 INTERACTION DESIGN AND UX

Interaction Design is one of the appreciated parts with User Experience (UX) model. Whole of an application really hang on user content. The delightfulness is dependent on interaction and part of the model.

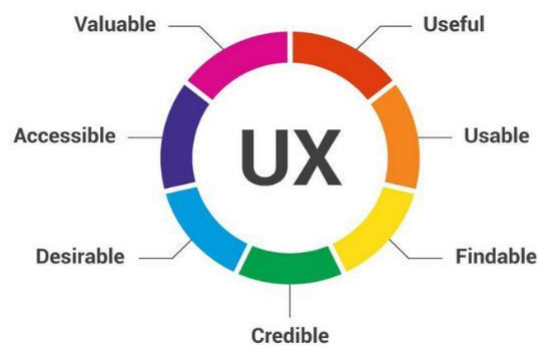


Figure 4.1: UX.

4.4IMPLEMENTATION REQUIREMENTS

In the case of operating to get it to work in real-time, this task requires server systems that are installed in our environment. I have used the Apache server provided by XAMP virtual server system to develop and run the whole system. But for running the entire interface made by HTML and CSS, a browser is needed. JavaScript has made my system supportable for the browsers. Besides this, the PHP_MY_ADMIN tool is used for maintaining the database in real-time. It is used for the modification also. The server which is used must have the latest version of PHP and MySQL.

4.5 RELATED WORK

Campus recruitment is a web-based project, so I should focus on the study of the field of web technologies so that we can select which technologies should be used to complete this project. I will work on this project to fulfill my destination and gain another web base work. There are many web project, so I will work most them to increase my knowledge.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 IMPLEMENTATION OF DATABASE

The quality of a project mainly depends on the database. It is one of the main elements of my project. In my project, we have used MySQL, which is a prevalent database management system. We know that MySQL is an open-source relational database management system, which is mostly used for web-based systems. For this reason, I have used MySQL.

Database related knowledge is given shortly below.

Database name: campus-recruitment.sql.

5.2 IMPLEMENTATION OF FRONT-END DESIGN



Figure 5.2 Home Page of User & Admin.

Dashboard

Welcome, Admin

GENERAL

- Home
- All User
- Create Admin
- All Job Post

LIVE ON

- Logout

Register User

Full Name

E-Mail Address

Password

Confirm Password

User Type

Select Type

Register

Activate Windows
Go to Settings to activate Windows.

Figure 5.3 Register admin panel.

An admin panel profile where admin can delete an applicant & company.

Dashboard

Welcome, Applicant

GENERAL

- Home
- All Job Post
- Student Profile
- Application Status

LIVE ON

- Logout

Personal Information

Edit Information

Name	Applicant
Father's Name	dgdsdad
Phone	01798659099
Birth Date	fhdfhg
Gender	male
Religion	fhdfhg
Nationality	Bangladeshi
NID	fhdfhdfh
Marital Status	single

Educational Background Information

Activate Windows
Go to Settings to activate Windows.

Edit Information

Figure 5.4 Register Student profile.

An applicant profile where the applicant can give personal information, educational information, edit information, view company details.

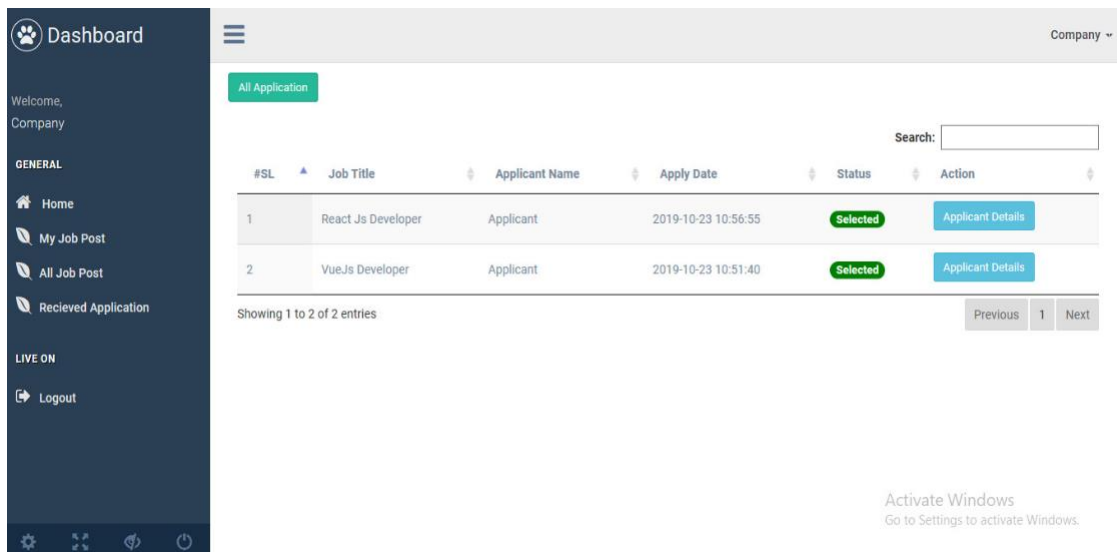


Figure 5.5 All application page of Dashboard

Company profile where c ompany can see application form of students.

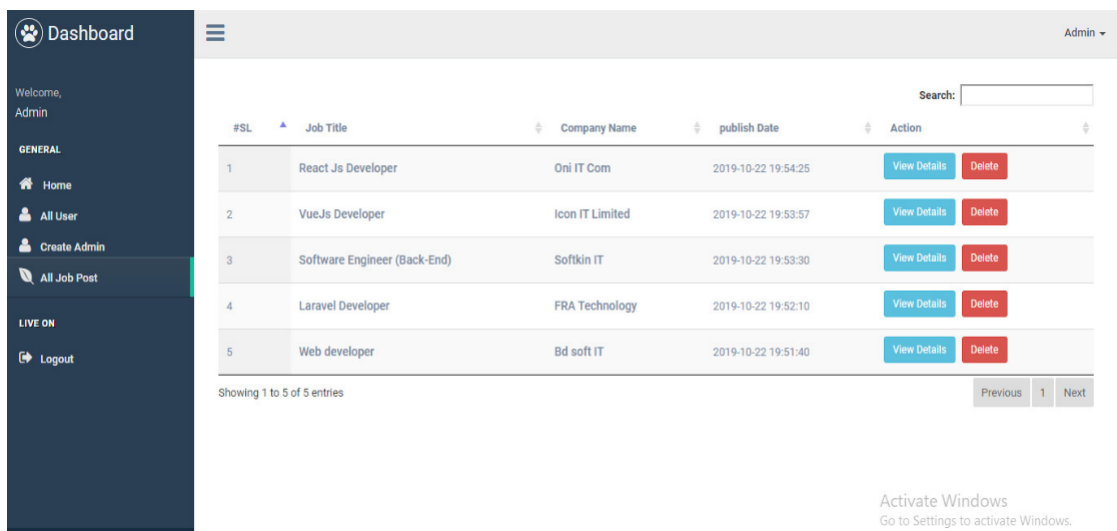


Figure 5.6 All Job Post page of Dashboard

An admin panel where admin can view details and delete.

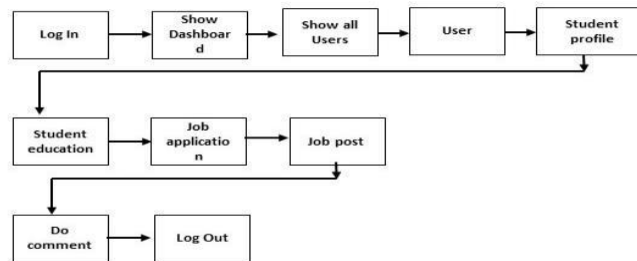


Figure 5.7 Implementation of front-end design

5.3 IMPLEMENTATION OF INTERACTION

INTERACTION is a common and prestigious task for developing a project implementation. My system is a web-based project, so many resources and user activities are needed to interact with it. MySQL is used here by me. The heart foundation of my whole project is dependent on appropriate data. So at the time of each interaction, communication between server and client is happening effectively every time. Data fetching, downloading circulars, uploading circulars, editing job post, deleting job posts, writing, and modifying comments all are happening simultaneously in my system. And I think if any significant failure doesn't occur in my site, the process will run simultaneously like this.

5.4 TESTING IMPLEMENTATION

All kinds of testing of the system have been done by us. That's why we are now well known about the user requirements. So we can testify that our system has been tested thoroughly with great determination.

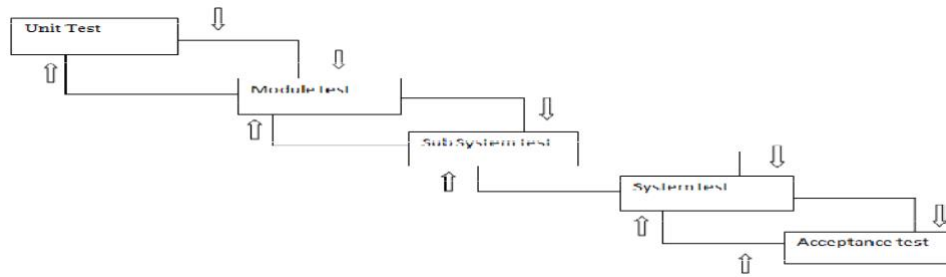


Figure 5.8 Testing implementation

5.5 Testing Implementation

□ Testing

Testing division is a piece of build up the venture. The primary topic of testing is asses the, confirmation, execution and nature of the application It can assist understudy with improving their ability since it is a web base structure application.

□ UNIT TEST

Each part of our system is tested to make sure that the entire design is correctly implemented. It has been carried out to ensure that each piece of our system works as per requirement.

□ MODULE TEST

The collection of dependent components was done, such as an object class, object data type, or some looser group of procedures and functions.

□ SUB-SYSTEM TEST

Testing the collection of modules that have been integrated into subsystems is involved in this phase.

□ SYSTEM TEST

System testing has been carried out before installation, and it has been observed that this system works according to expectations.

□ Us Ability Test

The users did usability tests. These verified this system provides the required output as expected by them.

5.6 Unit Test Case

Unit experiment can be partitioned into two sections. Database handler and interface handler. I utilized some fundamental capacity in my application that adds data information, alter information and erase information. Database handler will check these three capacities. Furthermore, presently our database handler experiments will be this way.

Every client can check their answer effectively or not.

Every client can alter their information data effectively or not.

Every administrator can alter their information data effectively or not.

Every administrator can erase their information effectively data or not.

5.7 TEST RESULT AND REPORTS

My whole system was tested thoroughly by me and some other users. During testing, every result was so satisfactory. All the students who were requested to register in my site could register and login successfully. Although there was some glitch on the site, I am trying to solve them as soon as possible. Despite having a glitch, the user experience was so peaceful. No problem was found at the time of fetching any materials. Besides, uploading mechanisms were also working smoothly.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 DISCUSSION

I had set some aims and objectives on this project, and from my point of view, those are fulfilling successfully in a very efficient and productive way. “Campus-recruitment” is an innovative idea to make a bridge between different companies and students of DIU. This innovation can help to solve and help the students to find out those jobs, which are suitable for them. I believe that students of DIU will accept my system with great excitement. Front-end and Back-end development increased the benchmark of the quality of my project. Collecting quality students and a massive amount of job vacancies is now the main challenge of mine to run this site smoothly.

6.2 CONCLUSION

Now, I want to say about some features about the system, which will be significantly productive for all of the students of DIU. There are some approaches given below from me to make the system more modern and productive.

Introduction of collaboration with foreign companies so that students can get the opportunity to work outside after their graduation.

Introduction of making a specific page for several scholarship programs in abroad.

Make a big server to store more data.

I want all students of DIU to help me willingly to improve the system by registering and login, reporting bugs, reporting traffic, reporting glitches.

At the end of this report section, I want to give thanks to the Almighty. I am so grateful to my Supervisor, who supported me a lot throughout the whole process. I would also like to give thank our other teachers and well-wishers who had helped me.

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ABSTRACT "Campus Recruitment" [is a web-based online archive system for the students of DIU. This is a collaborative platform for Students and job offering companies. In this platform, the students of Daffodil International University will get](#) all kinds of job information, the opportunity to apply for a vacant position in the company from the website if they qualify, latest job-circulars. The site will provide different kinds of the company's name, and company's present vacancies, companies' direct link for applying on the vacancies, the news about latest job circulars especially part-time jobs, which are available for the students so that, a student can join any job before or after their graduation from DIU. There is also a real-time commenting section so that after posting any job circular, students can ask anything related to the circular. The companies and students both can contribute to this system. [The admin will be able to track down the progress of the whole system in real-time. This website will assist our students in a very effective way. It will help them to find](#) job vacancies [for](#) them, which will finally lead them to their desired job position. © Daffodil International University **CHAPTER 1 INTRODUCTION 1.1 INTRODUCTION** The purpose of this system is mainly creating job possibilities for the students of DIU. In university, there a lot of students who need to make money for personal financial problems during studying. For them, we are creating this system so that students can get possibilities for joining part-time jobs and can solve their financial problems. Along with this, after graduation, students can't be able to know about many job circulars of many companies, but the companies provide vacancies at that time. So, I made this system so that it can help the students of DIU before and after their graduation. 1.2 MOTIVATION My motivation is Canada. In Canada, there is this type of system. Students can do part-time jobs, along with their studies. Besides this, companies send a list of job vacancies to different universities every month so that, if they are qualified, they can join in companies. From this system, I got inspired to make this so that our students of DIU can also get that type of opportunity. 1.3 OBJECTIVE The main objective of this website is to provide a well collaborative system between students of DIU and different companies. Now the students will have the