



Daffodil
International
University

Department of Software Engineering

SWE 431: Thesis/Project

Project Documentation

Campus Recruitment System

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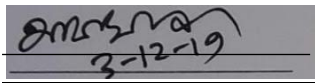
Department Of Software Engineering

A project submitted in partial fulfillment of the requirement for the degree of
Bachelor of Science in Software Engineering

Declaration

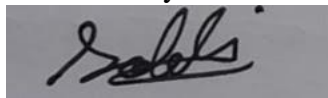
I hereby declare that, this project has been done by me under the supervision of **Afsana Begum**, Senior Lecturer, and Department of Software Engineering, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere.

Certified By:



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Acknowledgement

First of all, I am very much blessed as I have successfully reached towards the final semester. And so this is why I am pleased to my almighty. From the very beginning of my university life, I have learned a lot about software engineering as well as core computer science related knowledge from my course teachers. Moreover, they teach us ethics, morality and politeness.

Besides, I am so much thankful to my parents that, I was always supported by them. They always prioritize my opinion and inspired me as well.

I am also grateful to my supervisor **Afsana Begum** for allowing me to work with this project. He always supports me to make this projects successful.

Sabbir Ahmad

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Abstract

The motivation behind the archive is to gather and dissect every single arranged thought that has come up to characterize the framework, its prerequisites regarding the activity searcher and bosses. Likewise, I will foresee and sift through how I trust this framework will be utilized so as to increase a superior comprehension of the task, layout ideas that might be grown later, and archive thoughts that are being considered, however perhaps disposed of as the framework creates. To put it plainly, the reason for this SRS report is to give a point by point diagram of my web item, its parameters, and objectives. This report depicts the framework and its partner's individuals and its UI, equipment, and programming necessities. It characterizes how administrators, work seekers, businesses and general individuals see the framework and its usefulness.

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Chapter 1

Introduction

1.1 Project Overview

Today we have PCs with enormous processing power and pretty much every business is going to take the benefits of utilizing those innovations. Be that as it may, these days computerized accreditations itself become a basic part for each business framework. Since it gives security and it can recognize each one of a kind person. Moreover, it likewise gives secret correspondences to the clients.

The aim of this document is to gather and analyze and give an in-depth insight of the complete **campus requirement** by defining the problem statement in detail. Nevertheless, it also concentrates on the capabilities required by stakeholders and their needs while defining high-level product features. The detailed requirements of the project are provided in this document.

1.2 Project Purpose

The motivation behind the archive is to gather and dissect every single arranged thought that has come up to characterize the framework, its prerequisites regarding the activity searcher and bosses. Likewise, I will foresee and sift through how I trust this framework will be utilized so as to increase a superior comprehension of the task, layout ideas that might be grown later, and archive thoughts that are being considered, however perhaps disposed of as the framework creates. To put it plainly, the reason for this SRS report is to give a point by point diagram of my web item, its parameters, and objectives. This report depicts the framework and its partner's individuals and its UI, equipment, and programming necessities. It characterizes how administrators, work seekers, businesses and general individuals see the framework and its usefulness.

1.2.1 Background

I realize that situation and also saw various of my friends, relatives, brothers, many people in this sector to apply for a job. There are huge hassles to apply or recruitment. On the other hands the respective company also do many procedures to recruit their employee. Such as publish add for recruitment, applicant print their CV, post their cv, companies collect those CV etc. That's why I want to create such type of system for better solution.

1.2.2 Benefits & Beneficiaries

This application would be beneficial for some point of view. Now I'm mentioning those below:

- ✓ Employer can get a perfect employee for their company.
- ✓ Employer can easily select or eliminate or pending job seeker.
- ✓ It helps to save a lot of time and money for both employer and job seeker.
- ✓ Employer can easily add a job for their company.
- ✓ It is helpful for both employer and job seeker point of view.
- ✓ Admin manages all employers and job seekers information carefully.
- ✓ For easy communication both applicant & companies.
- ✓ Reduce complexity of enrolment.

1.2.3 Goals

The purpose of the archive is to gather and dissect every single grouped thought that have come up to characterize the framework, its necessities as for the activity searcher and bosses. Likewise, I will anticipate and sift through how I trust this framework will be utilized so as to increase a superior comprehension of the task, layout ideas that might be grown later, and report thoughts that are being considered yet might be disposed of as the framework creates. To put it plainly, the motivation behind this SRS report is to give a nitty gritty diagram of my web item, its parameters, and its objectives.

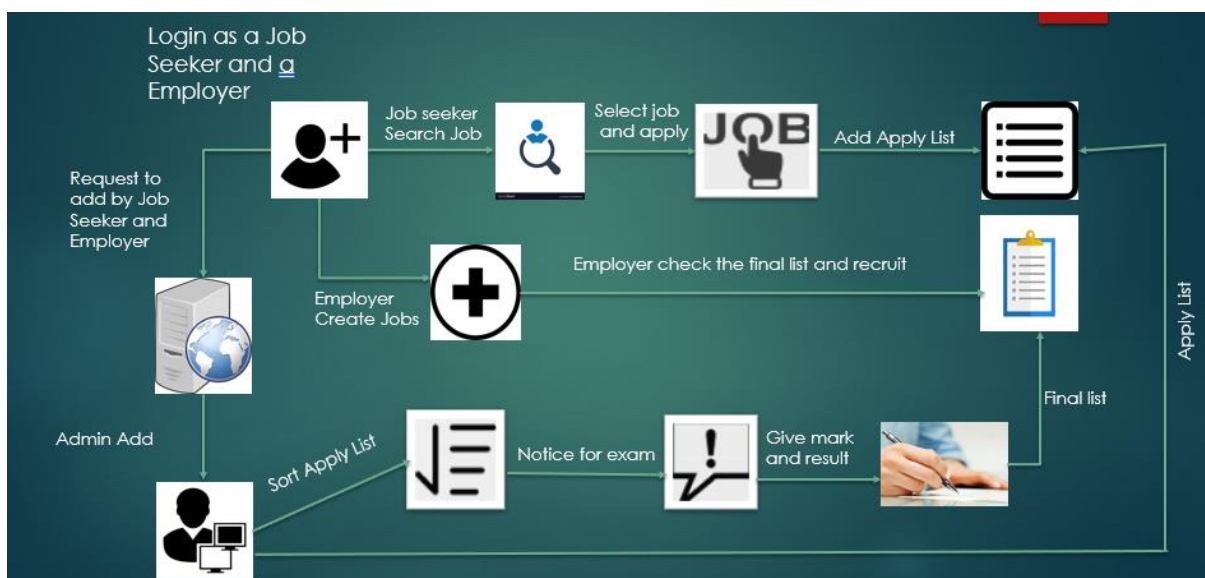
1.3 Stakeholders

There are three types of stakeholders in this system. Admin, Job seeker and employer the three type of stakeholders. Job seeker can fill up his profile information and search job and also apply a job. Admin and employer can do the same thing in this system. Admin and Employer can post a job.

Admin: The system administrator is a user who is able to maintain the whole system. The system administrator seeks to ensure that the uptime, performance, resources and security of the system and also maintain system member account.

1.4 Proposed System Model

Before going to develop a system, it is very important to have a system model. I have already prepared a system model. This model will clarify my proposed system in brief.



This project named “Work Abroad” system is going to be developed on web based application. This application reserves different types of modules as well as user privileges. And each module architecture is different from one another. Before describing project overview, I need to expose module architecture.

Such as:

Job Seeker Module:

- Register
- Login
- Edit Profile
- Search Job
- Apply Job
- Change password

Admin Module:

- Login
- View/Edit/Delete/update users
- Delete users for specific company
- Update database

1.5.1 Gantt Chart

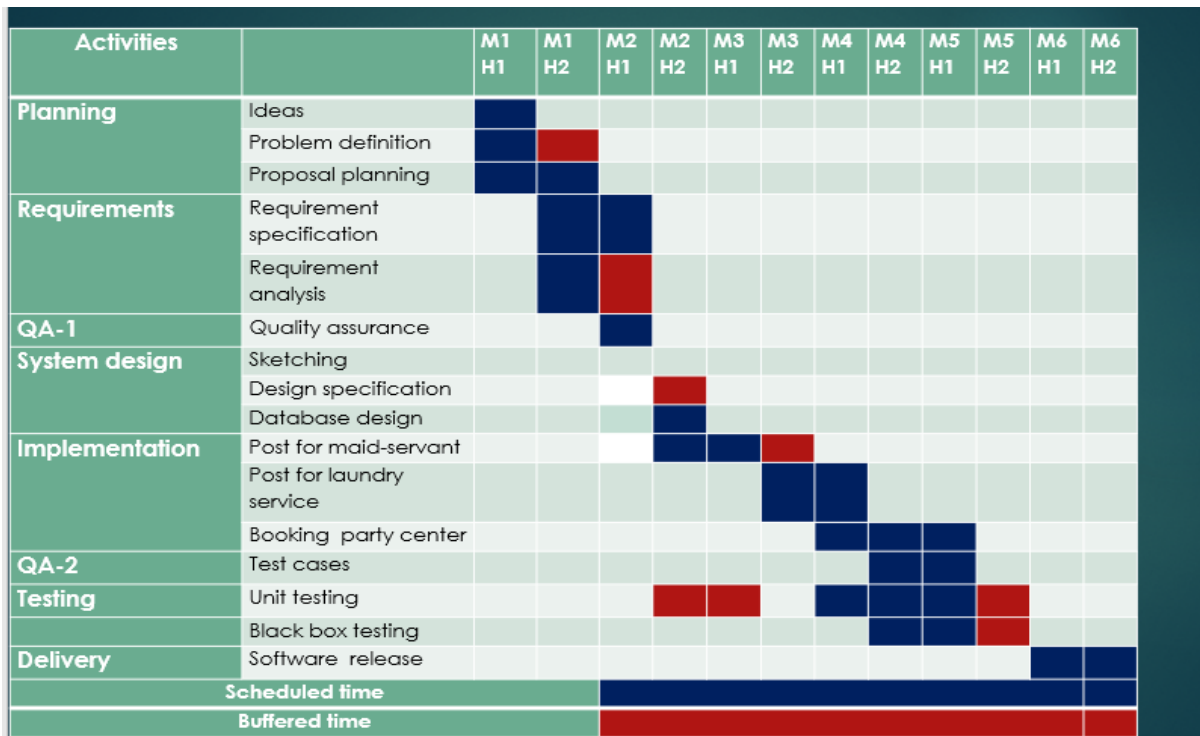


Figure 1.2: Gantt Chart

1.5.2 Release plan or Milestone

The release plan or milestone are given below:

Activities	Duration in week	Total week
Brainstorming	Week 1	1
Problem identification	Week 1, Week 2	2
Requirement Specification	Week 2	1
Requirement Analysis	Week 2	1
Sketching	Week 4	1
Design Specification	Week 4	1
Database Design	Week 5	1
Quality Assurance	Week 3	1
Test Case	Week 6, Week 7, Week 8	3
Impose Case & Demerits	Week 9, Week 10, Week 11	3
Unit Testing	Week 12, Week 13	2
Black-box Testing	Week 14, Week 15, Week 16	3
Software Release	Week 17	1

Table 0.1: Replace plan/Milestone

Chapter 2

Software Requirement Specification

2.1 Functional Requirement

Functional requirements refer to the functions which are mandatory to the system. Functional requirements must be able to perform on the software system. Every system must have some functional requirements. Now, we are going to mention functional requirements associating with our project.

2.1.1 Member Information

FR-01	Member Information
Description	This module helps admin to register job seeker and employers. Admin is able to maintain all the information of this members.
Stakeholder	Admin

2.1.2 Update Member Details

FR-02	Update Member Details
Description	This module helps to update Admin, Job Seeker and Employer information. Admin, Job Seeker and Employer can update their information and this information store in database.
Stakeholder	Admin, Job Seeker, Employer

2.1.3 Create Job Post

FR-03	Create Job Post
Description	Admin and Employer can create a job post by this system.
Stakeholder	Admin, Employer

2.1.4 Apply Job Post

FR-04	Apply Job Post
Description	Job Seeker see the job posts and apply for this job.
Stakeholder	Job Seeker

2.1.5 Get to know Result

FR-05	Get to know Result
Description	Job Seeker will know the results that he had applied for the job.
Stakeholder	Job Seeker

2.1.6 Sort, Pending and Eliminate Job List

FR-06	Sort, Pending and Eliminate Job List
Description	Admin can short pending and eliminate the job seekers those are apply different jobs.
Stakeholder	Admin

2.1.7 View Profiles

FR-07	View Profiles
Description	Admin can show the job seeker profile for select for a job.

2.1.8 Search Users

FR-08	Messaging
Description	Job seeker and employer can message with admin through this system.
Stakeholder	Admin, Job Seeker, Employer

2.1.9 View Results

FR-9	View Results
Description	Admin and Employer finally show the results that which persons are selected for his Jobs.
Stakeholder	Admin, Employer

2.2 Data Requirements

For defining data requirements, we need to build the model. For our application maximum data would be loaded from remote user. And for that purpose we need to focus on some major points. Such as:

- Types of entity of the system
- Route data locations
- Capacity and resources of the data requirements
- Data source sequence
- Data availability schedules
- Quantity of data
- Availability of data

2.3 Performance Requirements

A requirement that specifies a performance characteristic that a system or system or system component must possess; for example, speed, accuracy, frequency.

2.3.2 Precision & Accuracy Requirements

There are no specific precision and accuracy requirements.

2.3.3 Capacity Requirements

The system is able to manage all the information about bidder/seller.

CR-01	Initially the system will store member's information
Description	The information of Job Seeker and Employer will be stored in database.
Stakeholder	Job Seeker and Employer.

2.4.1 Reliability & Availability Requirements

Now, I will mention requirements which is related to reliability and availability.

RAR-01	The system must be available 24x7
Description	<ul style="list-style-type: none">• The system must be available 24 hours in a day• The system must be updated regularly
Stakeholder	Admin and Employer.

2.5.1 Maintainability Requirement

MR-01	The system helps to update any information in any time
Description	Bidder/Seller can add product or delete their product and Admin can change or update any information in any situation.
Stakeholder	Admin, Bidder/Seller

2.5.2 Supportability Requirements

In order to understand the system's behavior on a technical support required by the system operator. The reason for reading them might be

- System malfunction has occurred and the system operator has to find the exact point of time when this happened
- System produces wrong results and the developers must be able to reproduce the data flow through the system

2.6 Security Requirements

There are no access requirements beside those that have been outlined in the below:

- The software must validate all user input to ensure it does not exceed the size specified for that type of input
- The server must authenticate every request accessing the restricted Web pages
- After authenticating the browser, the server must determine whether that browser is authorized to access the requested restricted Web pages

2.6.1 Access Requirements

For accessing to our application system, there remains some authentication and authorization techniques. And every module of our system will provide it. Now I will provide an explanation below.

AR-01	The system provides security strategies.
Description	The system is designed in way that allows modules to access a mechanism that security services.
Stakeholder	Admin, Job Seeker, Employer

2.6.2 Integrity Requirements

To protect credentials of user from being stolen, all passwords are stored in encrypted form. The Requirements significantly reduces the value of stolen user credentials, it's not easy to decrypt the password.

2.6.3 Privacy Requirements

The system provides a protection of the database in the server. However, the system will have to increment this level of protection because of the personal data mode available on the system & the larger share of people that will be having access to it through the system's registration. The user's privacy will be granted by the limited access that the log in process is going to give to the database.

2.7 Usability and Human-Interaction Requirements

The main target of developing any system is to make the system user friendly and easy to usable for the end users.

2.7.1 Ease of Use Requirements

The system is easy to use and can easily be understandable.

2.7.2 Personalization and Internationalization Requirements

There are not any personalization and internationalization requirements to our system. This maiden version of our application is only be operated by Bangladesh.

2.7.3 Understandability and Politeness Requirements

It is already said that the application which we are going to develop, is understandable enough. The system provides hints to users whether any error occurred or wrong. By reading those errors users can be able to operate the system easily.

2.8.1 Appearance Requirements

It should be clear to the admin and bidder/seller which fields need to be filled and which can be left blank in this system.

AR-01	Labels of mandatory fields must be bold
Description	Labels of mandatory fields must be bold to identify them as being of mandatory
Stakeholder	Admin, Employers

2.8.2 Style Requirements

We will provide a web based user interface. This requirement does not only define the necessity to use a CSS but also the requirements regarding the CSS's content as well as CSS framework like bootstrap.

SR-01	The look and feel must be controllable using style sheet
Description	The styling of the elements of the web based user interface will be defined using CSS, JS and Bootstrap.

Chapter 3

Requirement Analysis

3.1 Use Case Diagram

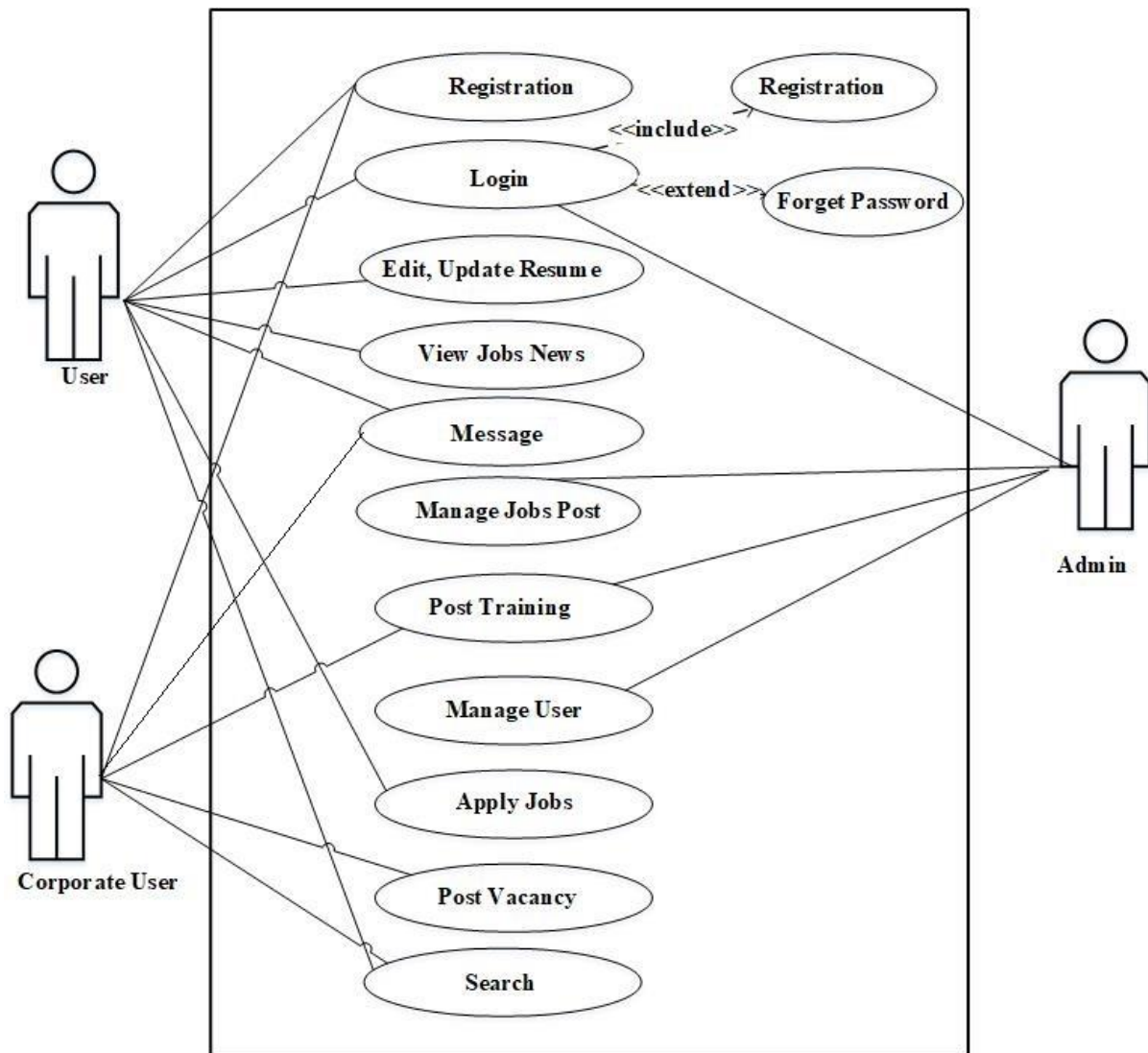


Figure 3.1: Use Case Diagram for "Work Abroad System"

3.1.1 Register Account

Use Case-01	Register account.	
Goal	Job seeker and Employer can easily register their account.	
Preconditions	Job seeker and Employer must have an email id.	
Success End Condition	Job seeker and Employer can perfectly login the system.	
Failed End Condition	Display signup error message.	
Primary Actors:	Job seeker and Employer	
Secondary Actors:	System	
Trigger	Click Registration	
Description / Main Success Scenario	Step	Action
	1	Users register in this system by giving require information.
	2	System verify the users email and send it to a confirming message.
	2.1 2.2	After confirming the email then users can successfully create an account. Without this, system will not add any users in the system.
Alternative Flows	Step	Branching Action
	3a	If email id is not valid, then users can't create account.
	3a1	If they input valid email, then they can create account easily.
Quality Requirements	Step	Requirement
	4	One user can register their account for one email id.
	5	Using fake email id is not acceptable for the system.

Table 1.1: Register Account

3.1.2 Login

Use Case-02	Login	
Goal	After giving email and password then gently logged in the system.	
Preconditions	Job seeker and Employer must have register account.	
Success End Condition	Successfully login the system.	
Failed End Condition	Login request denied by system.	
Primary Actors:	Job seeker, Employer and Admin	
Secondary Actors:	System	
Trigger	Login Button	
Description / Main Success Scenario	Step	Action
	1	Users input their email and password.
	2	System matching their entered password from database section.
	2.1	If provided password matched, then user can log in.
	2.2	Otherwise system appears invalid username and password message.
Alternative Flows	Step	Branching Action
	3a	If password is right, user login the system easily.
	3a1	If they enter wrong password, then they can't login the system.
Quality Requirements	Step	Requirement
	4	Too many wrong login requests, system will temporary disable for you.
	5	After entering 10 times wrong password, then it will happen.

Table 1.2: Login

3.1.3 Edit Profile

Use Case-03	Edit profile	
Goal	Job seeker and Employer can edit their profile information.	
Preconditions	Job Seeker and Employer must be a registered user in this system.	
Success End Condition	Job Seeker and Employer can edit their profile successfully.	
Failed End Condition	Can't edit and save information.	
Primary Actors:	Job Seeker and Employer	
Secondary Actors:	System	
Trigger	Create an account.	
Description / Main Success Scenario	Step	Action
	1	When users edit their information this information store.
	2	To create job post and apply a job user must do this.
	2.1 2.2	Then the system will work perfectly for the users. After providing right information users can do all this work easily.
Alternative Flows	Step	Branching Action
	3a	If job seeker can't give their information, they can't apply any job.
	3a1	If employer can't give their information's they can't post any job.
Quality Requirements	Step	Requirement
	4	Invalid email id can't acceptable.

Table 1.3: Edit Profile

3.1.4 Post Job

Use Case-04	Post Job	
Goal	Employer and Admin can post a job.	
Preconditions	Employer and admin must be register in this system	
Success End Condition	Employer and Admin post a job.	
Failed End Condition	Employer and admin can't post any job.	
Primary Actors:	Admin and Employer	
Secondary Actors:	System	
Trigger	Click Post Button	
Description / Main Success Scenario	Step	Action
	1	Employer must be register in this system.
	2	Admin and Employer can post job in this system.
Alternative Flows	Step	Branching Action
	3a	If employer register and give company information than he post a job.
	3a1	Don't have any sub use case.
Quality Requirements	Step	Requirement
	4	N/A
	5	N/A

Table 1.4: Post Job

3.1.5 Apply Job

Use Case-05	Apply Job	
Goal	Job seeker only can apply job.	
Preconditions	Job seeker must be authenticated user.	
Success End Condition	Job seeker can find their favorite job.	
Failed End Condition	Job seeker can't find any job.	
Primary Actors:	Job Seeker	
Secondary Actors:	System	
Trigger	Click Apply Button.	
Description / Main Success Scenario	Step	Action
	1	Job seeker can search job.
	2	Employer must post job.
	2.1 2.2	Job seeker can see the job posts. Then job seeker can apply job posts that he wants to work.
Alternative Flows	Step	Branching Action
	3a	If job seeker can't register in this system, he can't apply any job post.
	4a1	Job seeker see the job details.
	4a2	After see the details than job seeker can apply the job.
Quality Requirements	Step	Requirement
	5	Job seeker must be registered in this system.

Table 1.5: Apply Job

3.1.6 Sort Job List

Use Case-06	Short Job List	
Goal	Select job seeker for job.	
Preconditions	Employer and Admin also registers in this system.	
Success End Condition	Select Job seeker for job.	
Failed End Condition	Can't select job seeker.	
Primary Actors:	Admin, Employer	
Secondary Actors:	System	
Trigger	Click Button.	
Description / Main Success Scenario	Step	Action
	1	Some of applied job seeker can be selected for job by sorting
	2	Admin and employer can sort the applied job seeker list.
	2.1 2.2	Then admin and employer select final job seeker for a job.
Alternative Flows	Step	Branching Action
	3a	Employer must post a job.
	4a1	Employer must job details
	4a2	
Quality Requirements	Step	Requirement
	5	Must have account.

Table 1.6: Sort Job List

3.2 Activity Diagram

I have prepared some activity diagram according to my use case. These activity diagrams are properly referring the flow of the individual conditions of my project.

3.2.1 Register Account

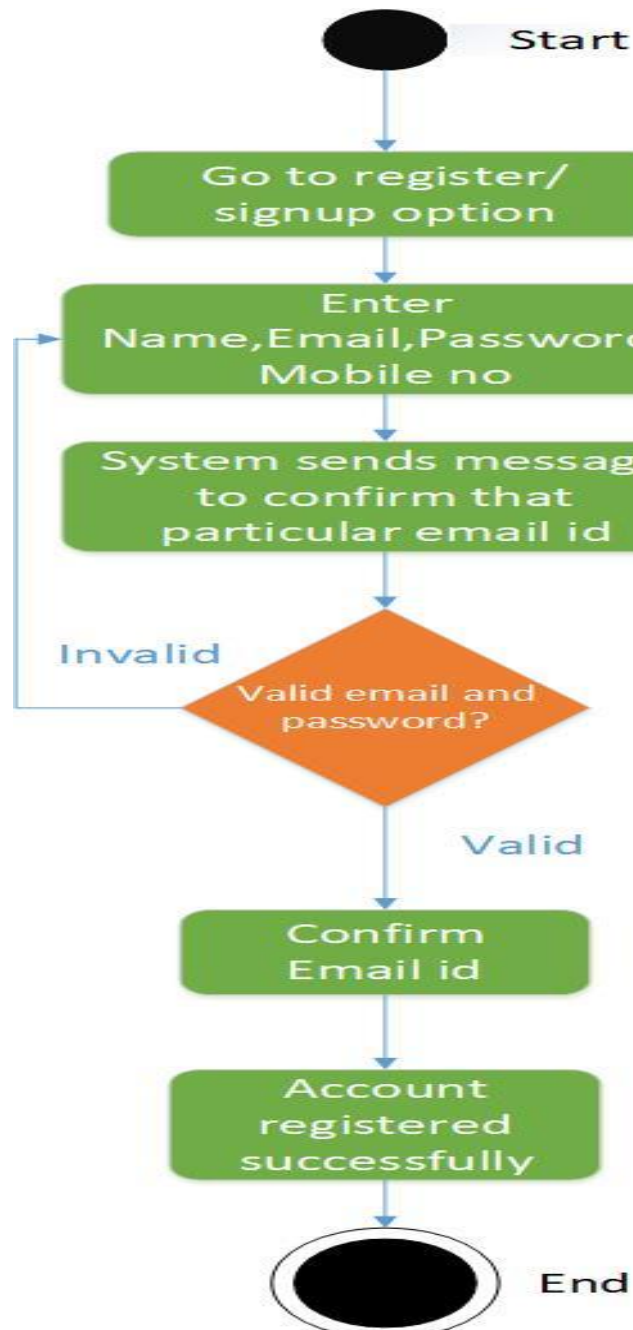


Figure 3.1: Register Account

3.2.2 Login

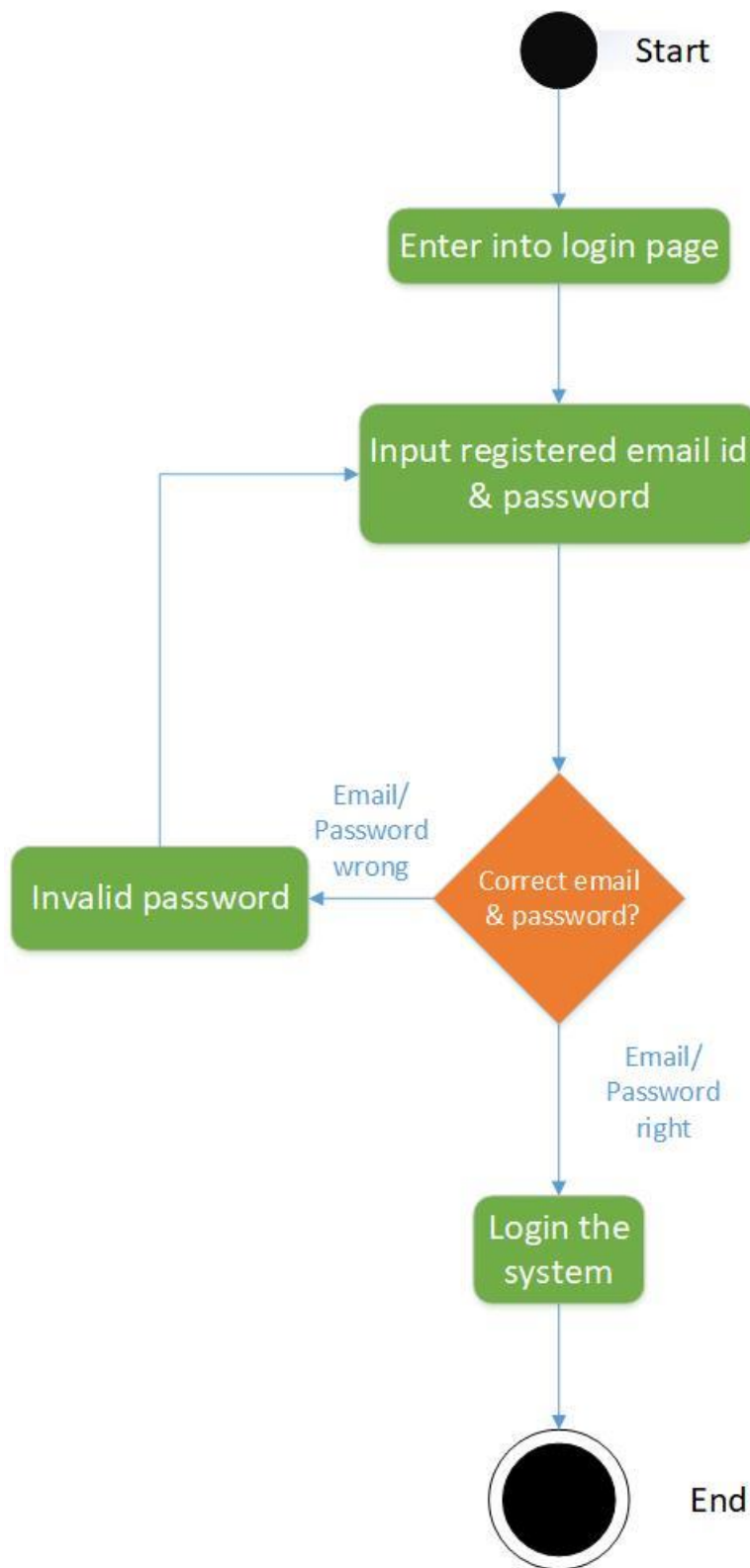
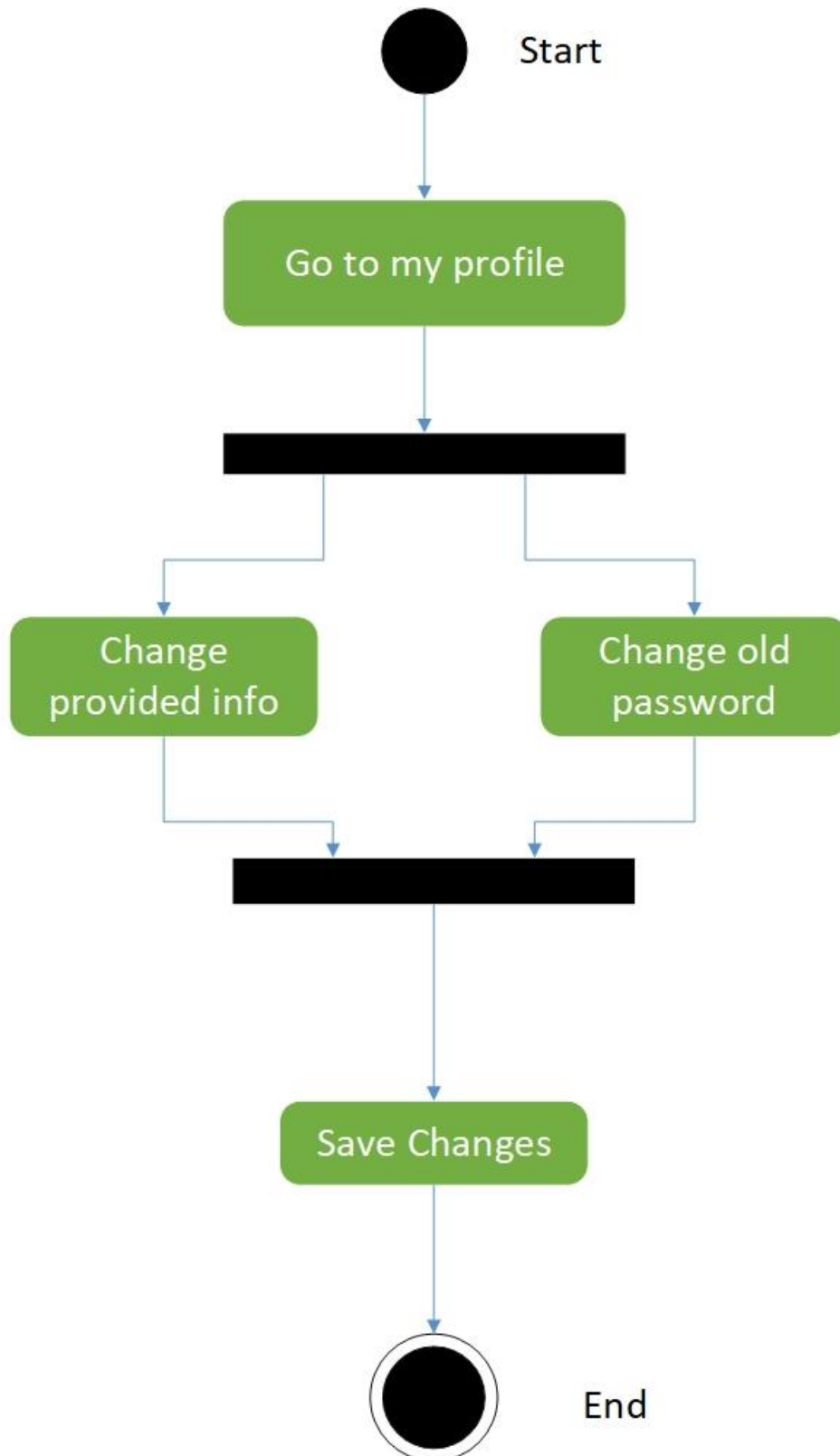


Figure 3.2: Login

3.2.3 Edit Profile



3.2.4 Job Post

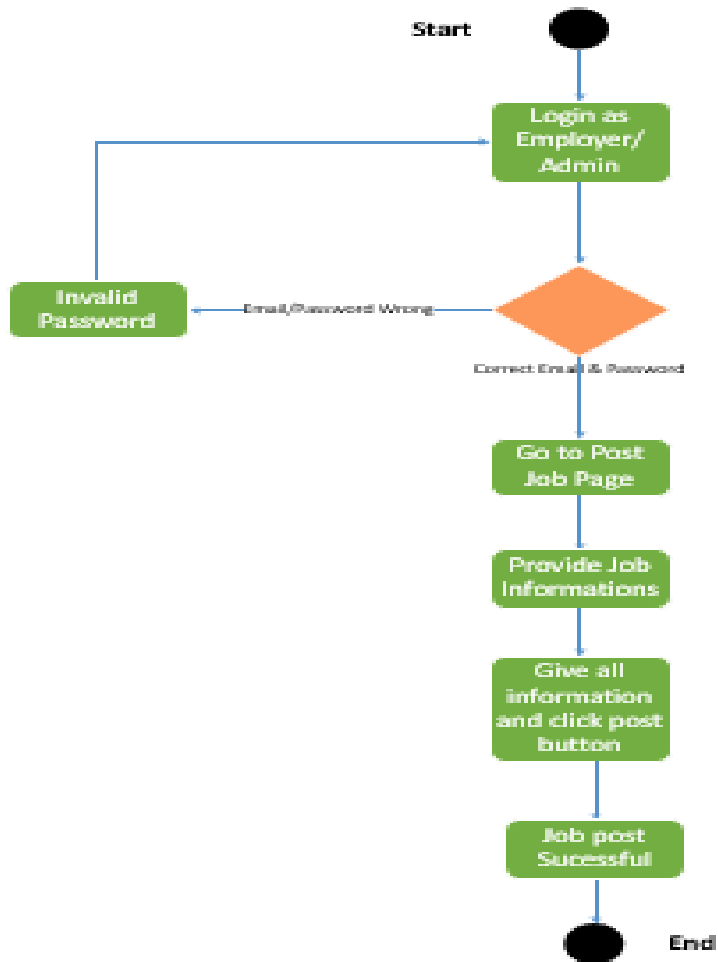


Figure 3.4: Job Post

3.2.5 View Job Post

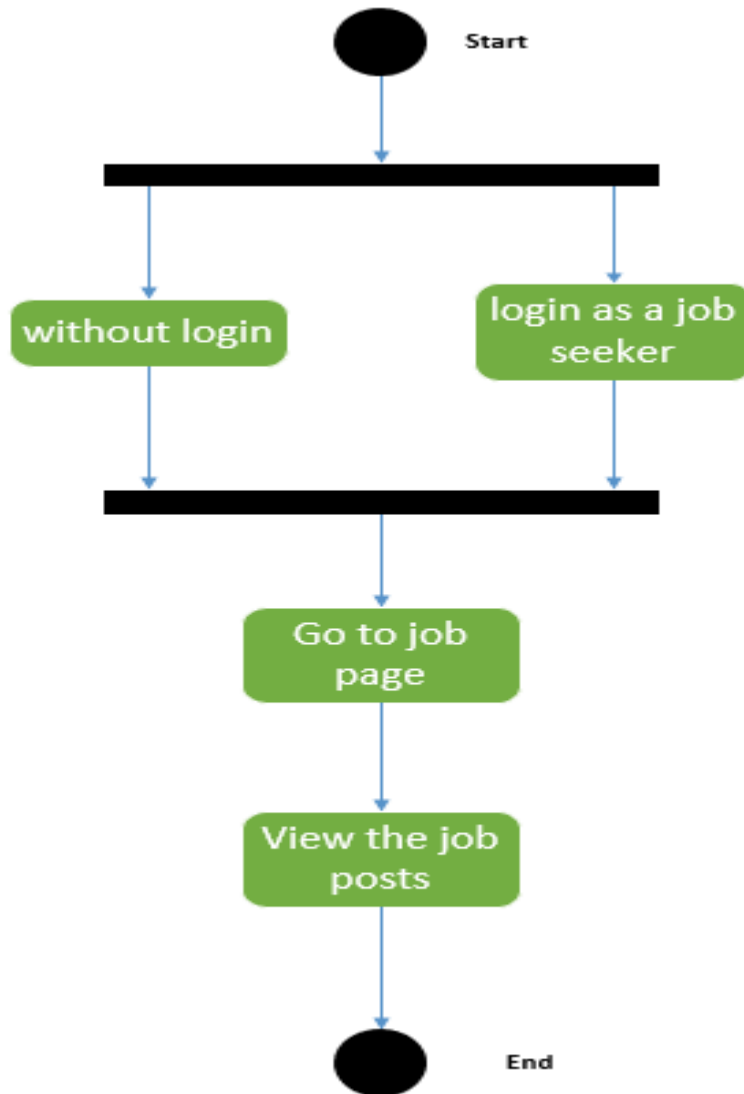


Figure 3.5: View Job Post

3.2.6 Search Job Post

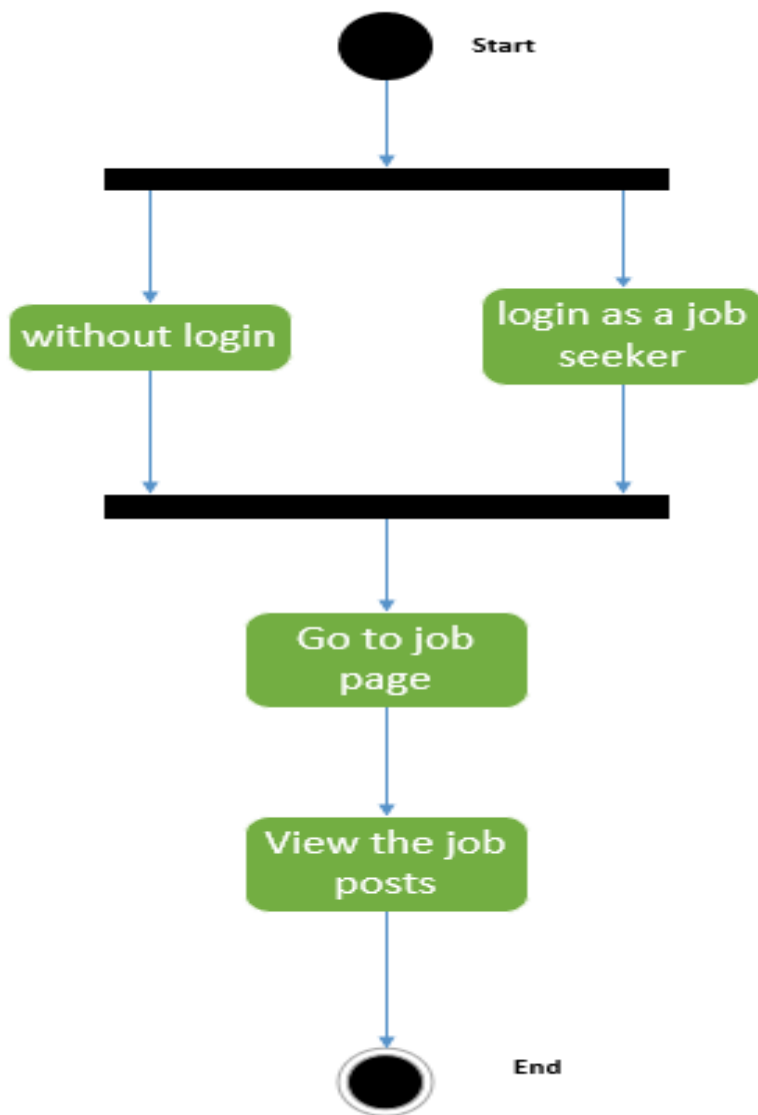


Figure 3.6: Search Job Post

3.2.7 Apply Job

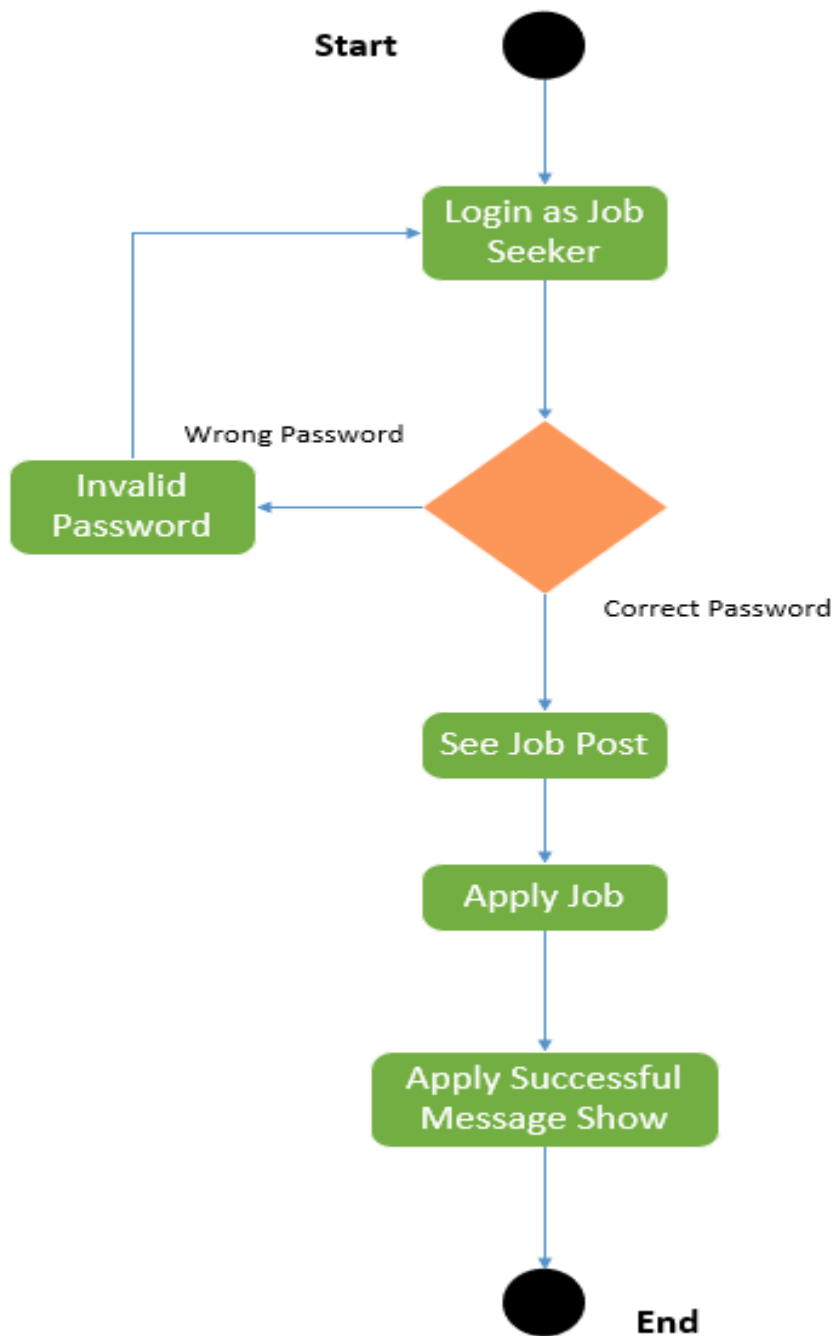


Figure 3.7: Apply Jobs

3.2.8 Sort Candidates List



Figure 3.8: Sort Candidates

3.2.9 Pending candidates for job

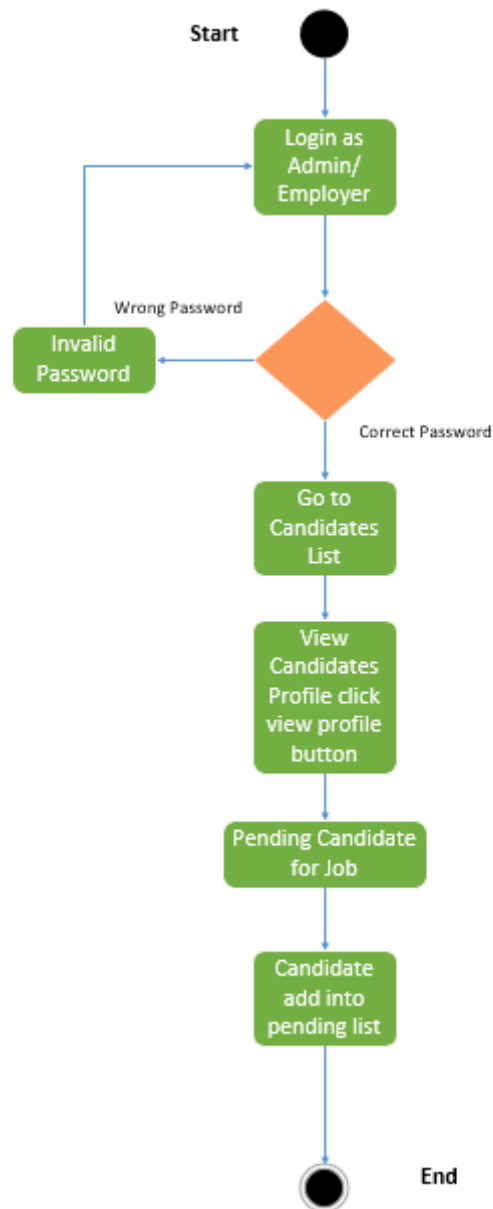


Figure 3.10: Pending Candidates for Job

3.2.10 Eliminate candidates for job

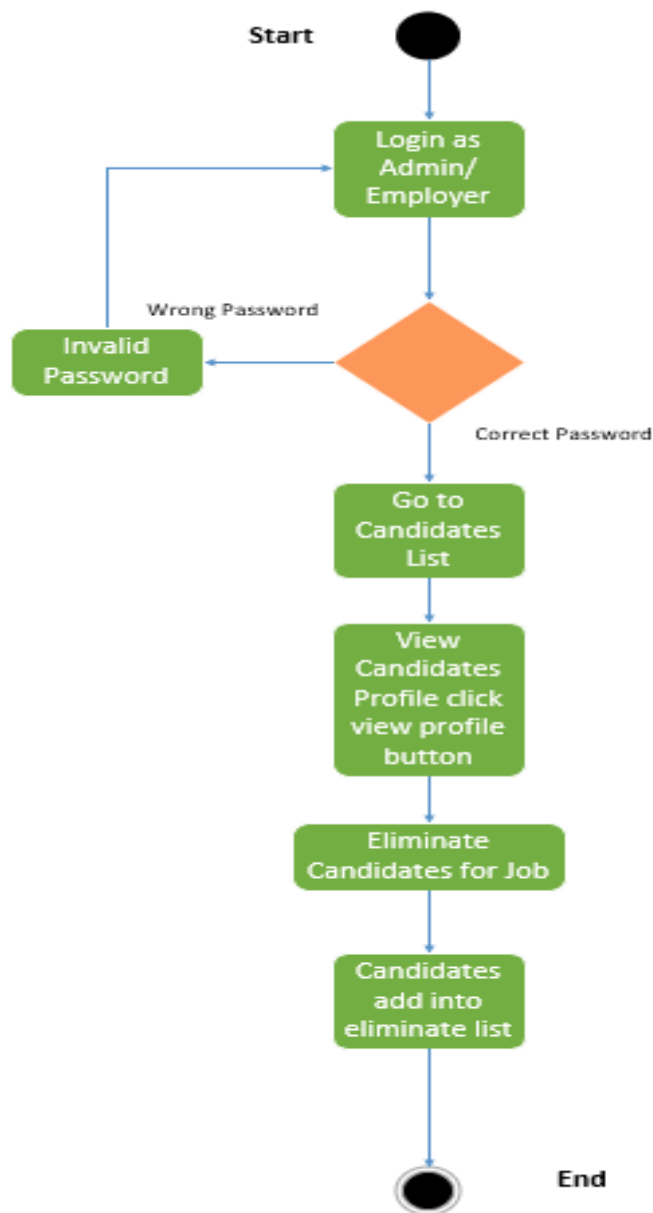


Figure 3.10: Eliminate Candidates for Job

3.3 Sequence Diagrams

Mainly sequence diagrams understand us how the data will be followed in any application.

Now we are going to show some sequence diagrams.

3.3.1 Register User

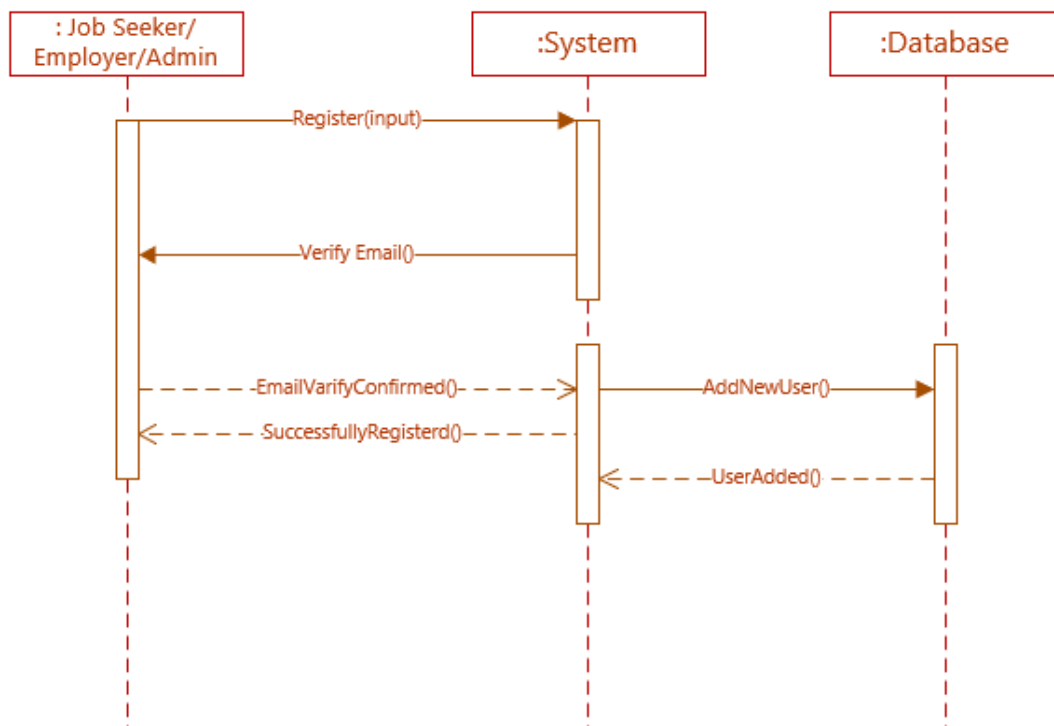


Figure 3.11: Sequence diagram for register account

3.3.2 Login

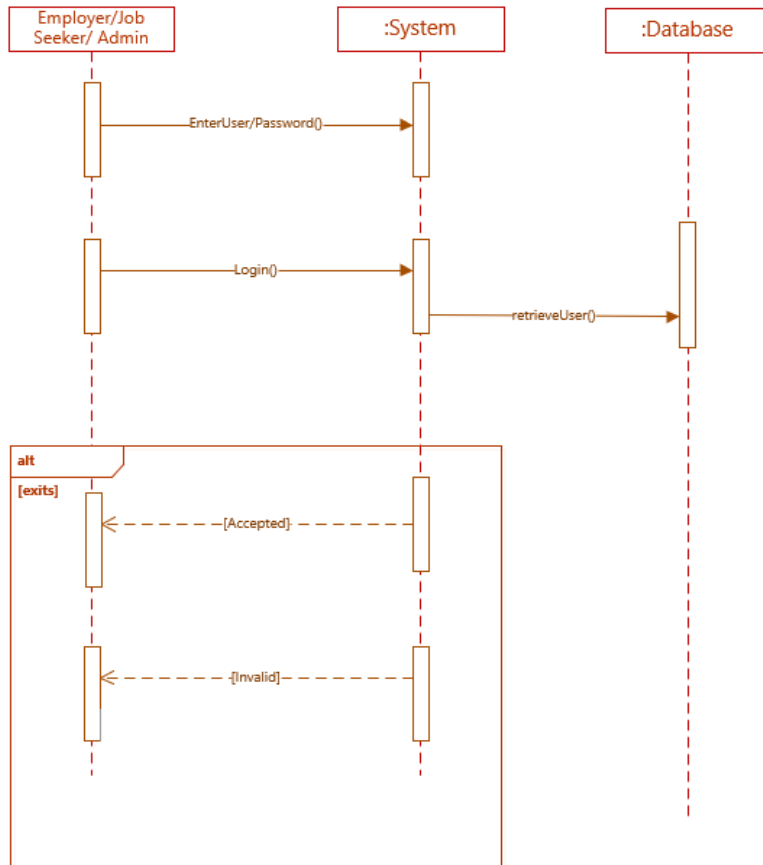


Figure 3.12: Sequence diagram for login

3.3.3 Edit Profile

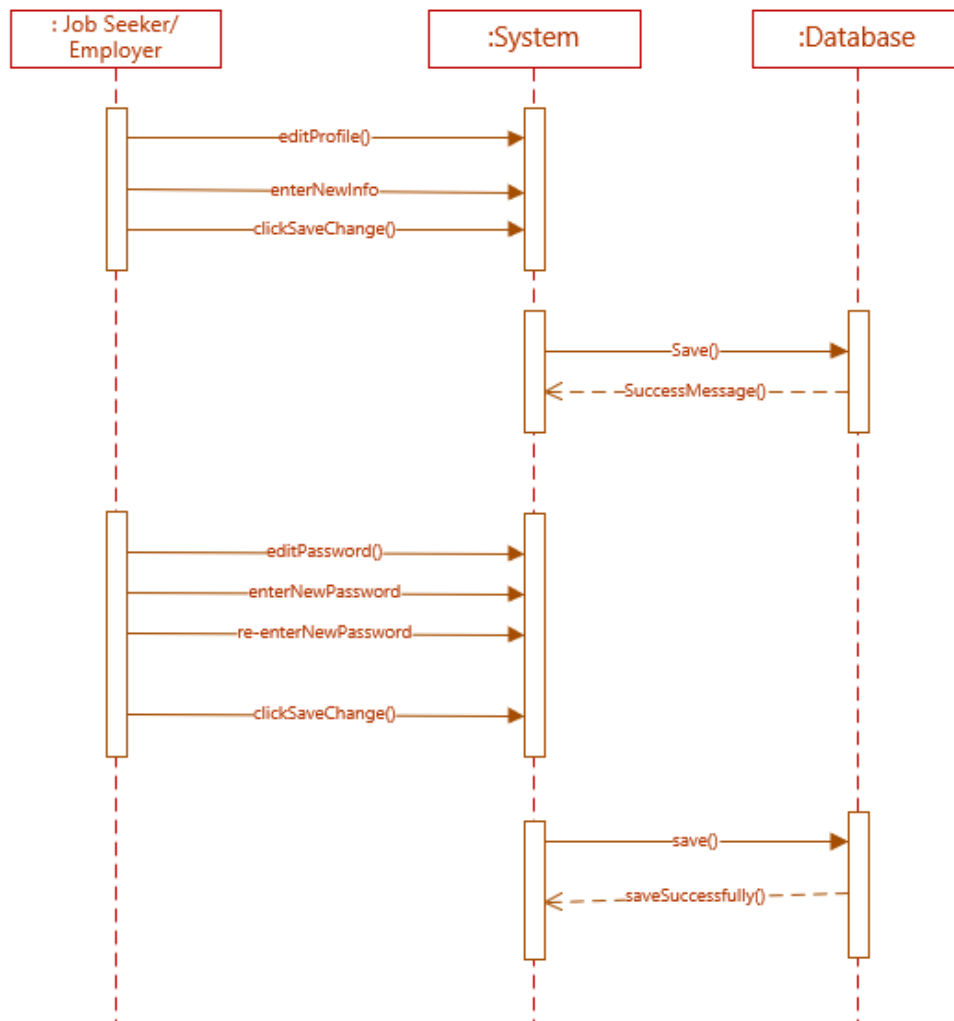


Figure 3.13: Sequence diagram for edit profile

3.3.4 PostJob

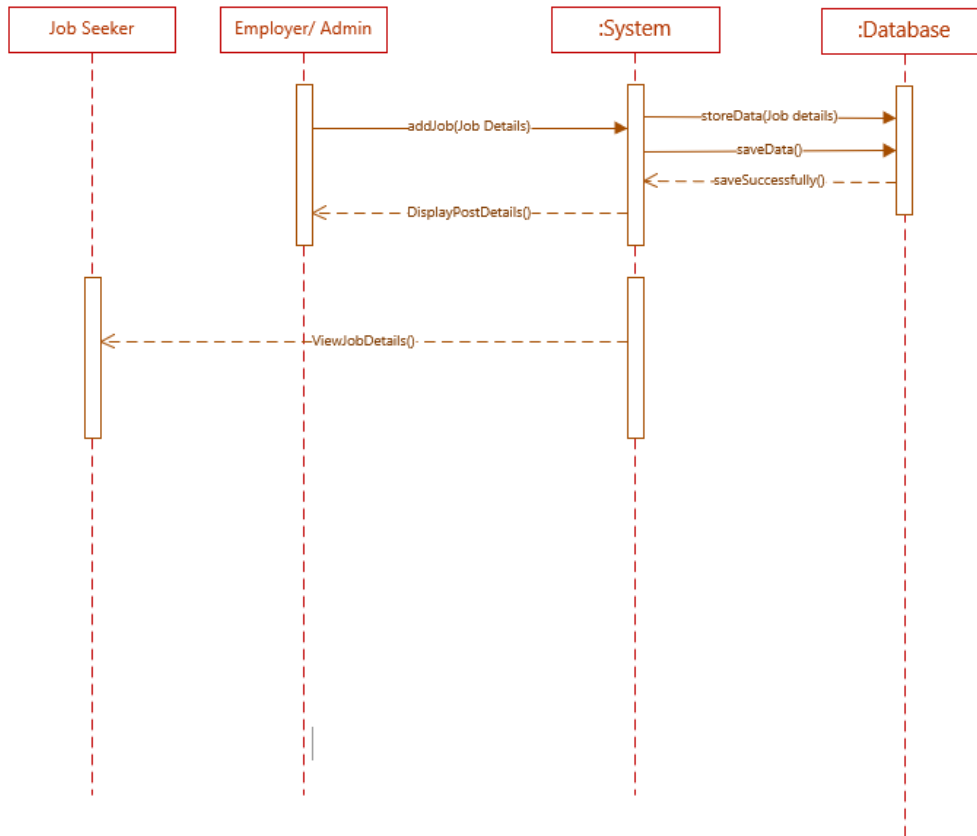


Figure 3.14: Sequence diagram for post job

3.3.5 Search Job

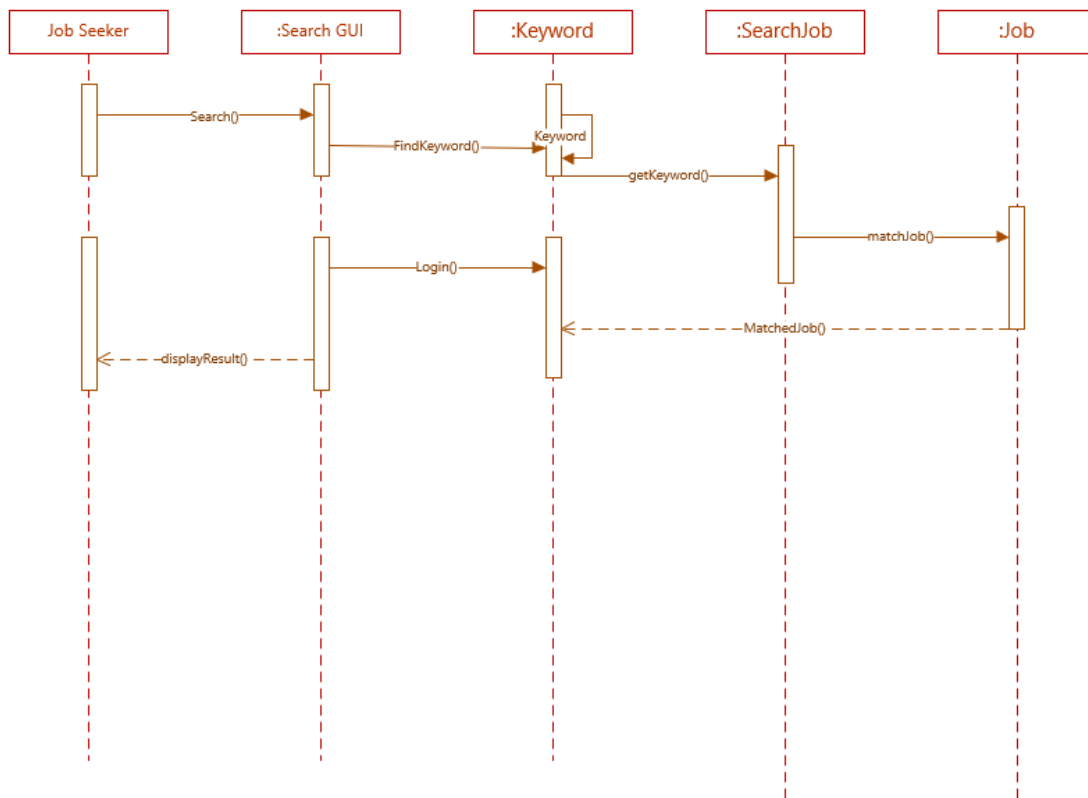


Figure 3.15: Sequence diagram for search job

3.3.6 Apply Job

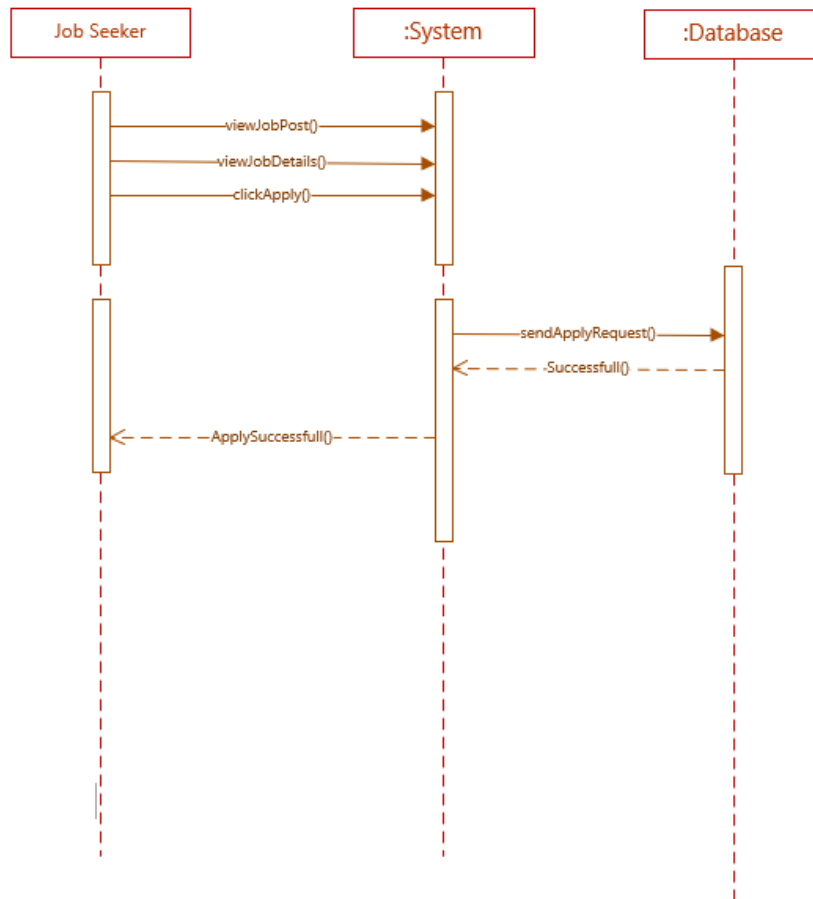


Figure 3.16: Sequence diagram for apply job

Chapter 4

System Design Specification

4.1 Development tools and technology

Software development tools are utilized to create the system. There are various types of instruments for programming designers to make the procedure of programming improvement smooth. However, presently I will make reference to a portion of the apparatuses that I am utilizing to build up my task.

4.1.1 User Interface Technology

First of all, after landing any application, interface of that software is appeared to the user. So, the importance of user interface is very high. For success of any software application, a good looking user interface plays a vital role. User interface includes using good image, graphics, typography, stylesheets, scripting etc.

4.1.2 Implemented tools and platform

As I have said before, there are some tools and technologies that need to be used for developing software. It is very important to determine which tools and platforms are the best match of my requirements. After making a proper decision, one need to start using them.

4.1.2.1 Integrated Development Environment

IDE stands for Integrated Development Environment. Programmers write code on IDE. After that IDE provide the feature to execute the source code. For developing my web application, I have used two IDE.

4.1.2.2 Web Server

We have used apache server. It is a free and open source software to use. It can be used on cross platform. It supports a wide range of features and most of them are already implemented as compiled modules. This module can extend the main features or core functionality.

4.1.2.3 Database Server

For developing our whole project, we have followed Relational Database Management System or RDBMS. And we find that MySql provides the feature of RDBMS

4.2 Database Design Diagram

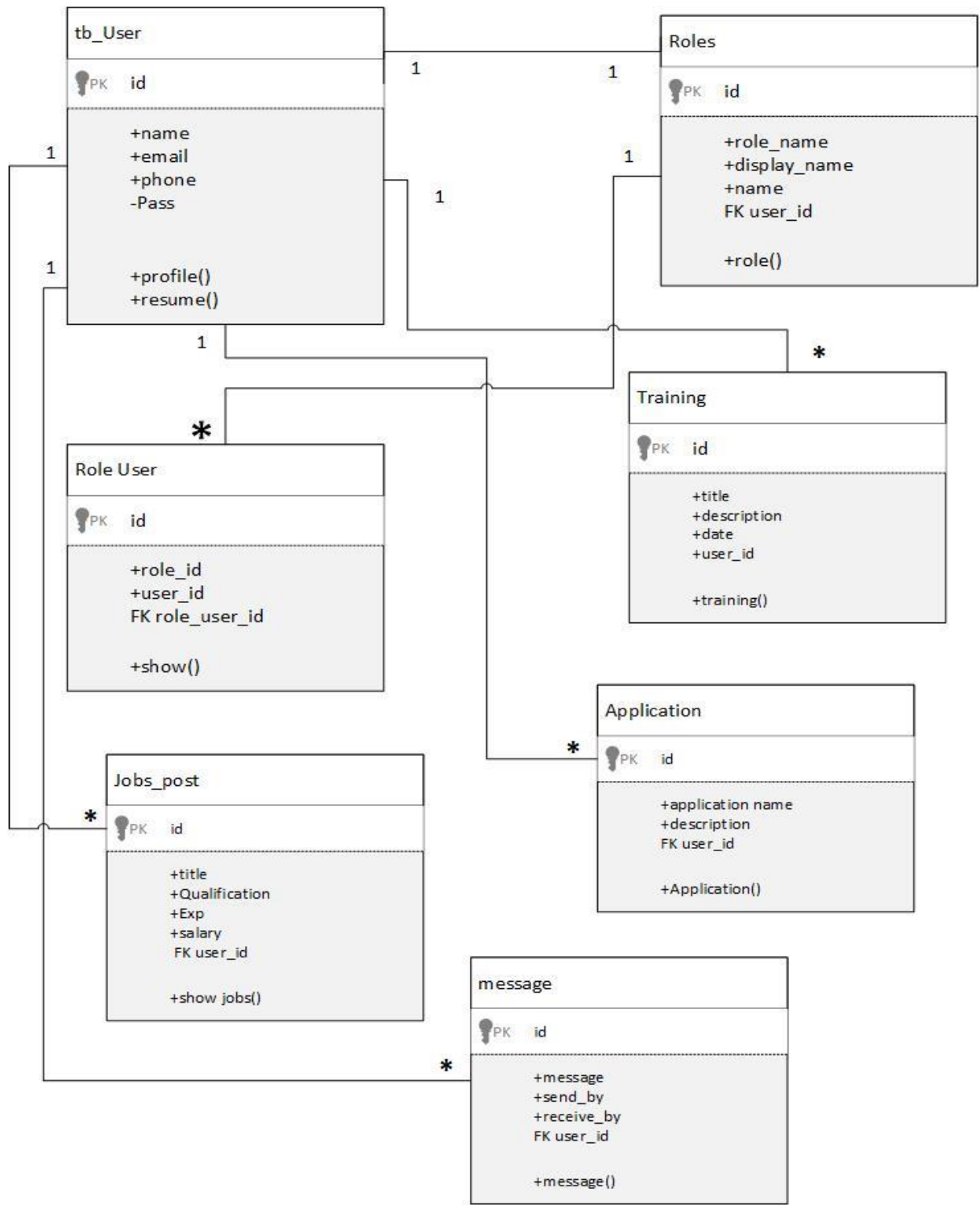


Figure 4.2: Database Design

Chapter 5

System Test

5.1 Testing Features

Feature testing can be considered as making change to add or modify the new functionality to the existing project. To test the features and functionality, a new test set is to be written for testing purpose.

5.1.1 Feature to be tested

Feature	Priority	Description
Register	2	For post job and apply job employer and job seeker should be register first.
Login	2	User must be authentic by login.
Logout	2	Session must be destroyed after logout.
Add new job	3	Employer and admin must be inserted job data properly.
Edit profile	2	Employer/Job Seeker must be able to edit their profile easily.
Apply Job	3	Job Seeker see the job details and apply this job properly.
Sort Candidate	2	Employer and admin must be sorting the apply candidates properly.
Select, Pending and Eliminated candidates	3	Employer and admin must be select, pending and eliminate candidates for a job properly.
Technological Feature		
Database	3	Database will be user at almost every operation. That's why, this part must be controlled tightly.

Table 2.1: Feature to be tested

5.2 Testing Strategy

Testing strategy is to be considered as a general purpose of testing process. Testing object, testing function methods, total available resources are included to the testing strategy.

5.2.1 Test approach

To complete the test process, testers must take some approach. There are mainly two test approach.

- **Automation testing:** Automation testing is a name of testing technique by which test engineers prepare some scripts according to test plan and after that they use suitable tools to perform testing of the software. Nowadays, almost every software company follow the approach of automation testing.
- **Manual testing:** Manual testing is also a name of technique of testing by searching out the bugs or vulnerability in an application. In this process, test engineers manually test and execute the test cases without having any automation tools.

5.2.1.1 Black Box Testing

Black box testing is a software testing method by which test engineers test the software without having knowledge of the internal architecture of the application that need to be tested. It is also known as behavioral testing. Black box testing can be both functional or non-functional. It ignores the internal mechanism of a system.

5.2.1.2 Equivalent Class Partitioning

Equivalent class partitioning is also known as equivalent partitioning. In this technique input data is to be divided into groups. Those group of data are expected to perform as similar behavior. Each groups works as same as other groups also.

5.2.1.3 Boundary Value Analysis

Boundary value analysis is a name of software testing by which input data can be included within a boundary range. Following this strategy, test engineers firstly define the boundary value.

5.2.1.4 White Box Testing

White box testing is also a name of testing approach which is also known as clear box testing, glass box testing, open box testing, transparent box testing, code based testing or structural testing.

Testers can also predict the output of every test cases for white box testing. White box testing can be classified into some levels. Such as:

- Unit Testing
- Integration Testing

5.4 Trace Ability

Project Manager			Business Analyst Lead		
QA Lead			Target Implementation Date		
BR#	Category / Functionality	Requirement Description	Use Case Reference	Test Case Reference	Comments
BR-1	Functional	Register Account	Use case 3.1.1	Test case 5.6.1	Good
BR-2	Functional	Post Job	Use case 3.1.3	Test case 5.6.6	Average
BR-3	Functional	Login	Use case 3.1.2	Test case 5.6.2	Good
BR-4	Functional	Logout	Use case N/A	Test case 5.6.3	Good
BR-5	Functional	Search job	Use case 3.1.6	Test case 5.6.8	Average
BR-6	Functional	Add job	Use case 3.1.5	Test case 5.6.4	Good
BR-7	Functional	Edit Profile	Use case 3.1.4	Test case 5.6.5	Good
BR-8	Functional	Apply Job	Use case 3.1.7	Test case 5.6.9	Average
BR-9	Functional	Sorting Candidates	Use case 3.1.9	Test case 5.6.7	Average
BR-10	Functional	Manage Database	Use case 3.1.10	Test case 5.6.10	Good

Table 2.3: Trace ability

5.5 Testing Environment

Testing environment means to prepare the environment with hardware and software so that test engineers can be able to execute test cases as required. Besides hardware and software usage, network configuration might be needed to execute test plans.

For making the environment for testing, some key area need to setup. Those are:

- Test data
- Database server
- Client's operating system
- Front end running environment
- Browser
- System and application

5.6.1 Register Account

Test Case #1		Test Case Name: Register Account				
System: Campus Requirement.		Sub-System: N/A				
Designed by: Rumman		Designed date: 10-Nov-19				
Executed by:		Executed date:				
Short description: To participate the post job procedural or apply job for Job Seeker/Employer must be registered first.						
Pre-conditions: <ul style="list-style-type: none"> • Job Seeker/Employer must have an email id to get confirmation message while registration process is completed. • Users must be authentic. 						
Step	Username	Email	Password	Expected result	Pass/Fail	Comment
1	Rumman	rumman@gmail.com	123456789	Invalid email address	Pass	Good
2	Atik Hasan	atik@gmail.com	123456789	email cannot be blank	Pass	Good
3	Rony Ahmed	rony@gmail.com	123456789	You have successfully register.	Pass	Average
Post-conditions: Employer and Job Seeker will get confirmation message while registration process is completed.						

5.6.2 Log In

Test Case #2		Test Case Name: Log in			
System: Campus Requirement.		Sub-System: N/A			
Designed by: Rumman		Designed date: 10-Nov-19			
Executed by:		Executed date:			
Short description: The registered users need to login to the application. And before that application will check the authentication and authorization.					
Pre-conditions: <ul style="list-style-type: none"> • Users must have registered username and password. • Assume that, username is 'rumman' and password is '123456789' 					
Step	Username	Password	Expected result	Pass/Fail	Comment
1	rumman	1234567	Invalid	Pass	Average
2	rumman.info		Password cannot be blank	Pass	Good
3		Fdas12	Username cannot be blank	Pass	Good
4	rumman	123456789	Successfully login to the system and redirect to users page.	Pass	Average
Post-conditions: Employer/Job Seeker will successfully login to the system.					

Table 2.5: Login

5.6.3 Log out

Test Case #3		Test Case Name: Log out		
System: Campus Requirement.		Sub-System: N/A		
Designed by: rumman		Designed date: 10-Nov-19		
Executed by:		Executed date:		
Short description: Session must be destroyed after logout.				
Pre-conditions: <ul style="list-style-type: none"> • Users must be logged in the system. 				
Step	Action	Response	Pass/Fail	Comment
1	User click on logout.	System redirect to the index page.	Pass	Good
Post-conditions: After pressing logout button, session will be destroyed.				

Table 2.6: Logout

5.6.4 Search Job

Test Case #4		Test Case Name: Search Job		
System: Campus Requirement.		Sub-System: N/A		
Designed by: Sabbir Ahmad		Designed date: 10-Nov-19		
Executed by:		Executed date:		
Short description: Seller new product data must be inserted properly.				
Pre-conditions: <ul style="list-style-type: none"> • Job seeker must visit this system. 				
Step	Action	Response	Pass/Fail	Comment
1	Job seekers search job by key	System filter all post job and display this job which key is similar to search key	Pass	Good
Post-conditions: If job seeker visit and also register this system, they can search job.				

Table 2.7: Search Job

5.6.6 Apply Job

Test Case #6		Test Case Name:Apply Job		
System: Campus Requirement.		Sub-System: N/A		
Designed by: Naeem Islam		Designed date: 10-Nov-19		
Executed by:		Executed date:		
Short description: Job seeker can see the job and apply any job				
Pre-conditions: <ul style="list-style-type: none"> Users must be register and login in this system 				
Step	Action	Response	Pass/Fail	Comment
1	In job page job seeker see the post jobs and details	System show the job posts.	Pass	Good
2	Job seeker see the job details	For apply job user see job details.	Pass	Good
3	After click on apply button job apply successful	System will show the apply successful message.	Pass	Average
Post-conditions: N/A				

Table 2.9: Apply Job

5.6.7 Sorting Candidates

Test Case #7		Test Case Name: Sorting Candidates		
System: Campus Requirement.		Sub-System: N/A		
Designed by: rumman		Designed date: 10-Nov-19		
Executed by:		Executed date:		
Short description: Admin and Employer can sort candidates list				
Pre-conditions: N/A				
Step	Action	Response	Pass/Fail	Comment
1	Employer and admin see the all candidates apply list in a job.	System has applied page in a particular job.	Pass	Average
2	Employer and admin than sorted the apply list.	Admin can sort the list.	Pass	Average
3	Then employer and admin finally sorted candidates	System will show the sort list.	Pass	Good
Post-conditions: If employer and admin can't be a authentic user they can't sort list.				

Table 2.10: Sorting Candidates

5.6.8 Manage/List Candidates

Test Case #8		Test Case Name: Managing Candidates		
System: Campus Requirement.		Sub-System: N/A		
Designed by: rumman		Designed date: 10-Nov-19		
Executed by:		Executed date:		
Short description: Admin and Employer can select, pending and eliminate candidates for a job				
Pre-conditions: N/A				
Step	Action	Response	Pass/Fail	Comment
1	Employer and admin see the all candidates apply list in a job.	System has applied page in a particular job.	Pass	Good
2	Employer and admin than sorted the apply list.	Admin can sort the list.	Pass	Good
3	Then employer and admin in click select button for select a candidate for a job, pending button for pending candidates and eliminate button for eliminate a candidate for job	System will add the candidates in list that they were selected.	Pass	Average
Post-conditions: If employer and admin can't be a authentic user they can't manage them.				

Chapter 6

User Manual

6.1 Register Account

If anyone want to be a Job seeker and Employer, they need to register first. Job seeker/Employer should have valid email id for completing registration. So, user go into the homepage>login>signup, Then the register page will appear. Now I will provide the screenshot of register page below:

The screenshot shows a web browser window displaying the registration page of a 'Campus Recruitment System'. The browser's address bar shows the URL 'localhost/JobPortal2/public/user-registration'. The page has a green header with the system name and navigation links for Home, Jobs, Training, Login, and Register. The main content area is titled 'Register Form' and contains the following fields and options:

- First Name:** Input field containing 'Sabbir'.
- Last Name:** Input field containing 'Ahmad'.
- Email:** Input field containing 'sabbirahmad2095@gmail.com'.
- Phone:** Input field containing '01745926742'.
- Password:** Input field with masked characters '.....'.
- Register as a:** Radio buttons for 'User' (selected) and 'Employer'.
- Agree the turn and policy:** A checked checkbox.
- Submit:** A green button.
- Already have an account? [Log In](#)**

Figure 6.1: Registration Page

6.2 Login

User need to login for post job and job seeker need to login for apply a job. But before that they need to be authenticated the system. First of all, they need to enter into the login page and fill up the required information. After that they will get access. Now I will provide the screenshot of login page below:

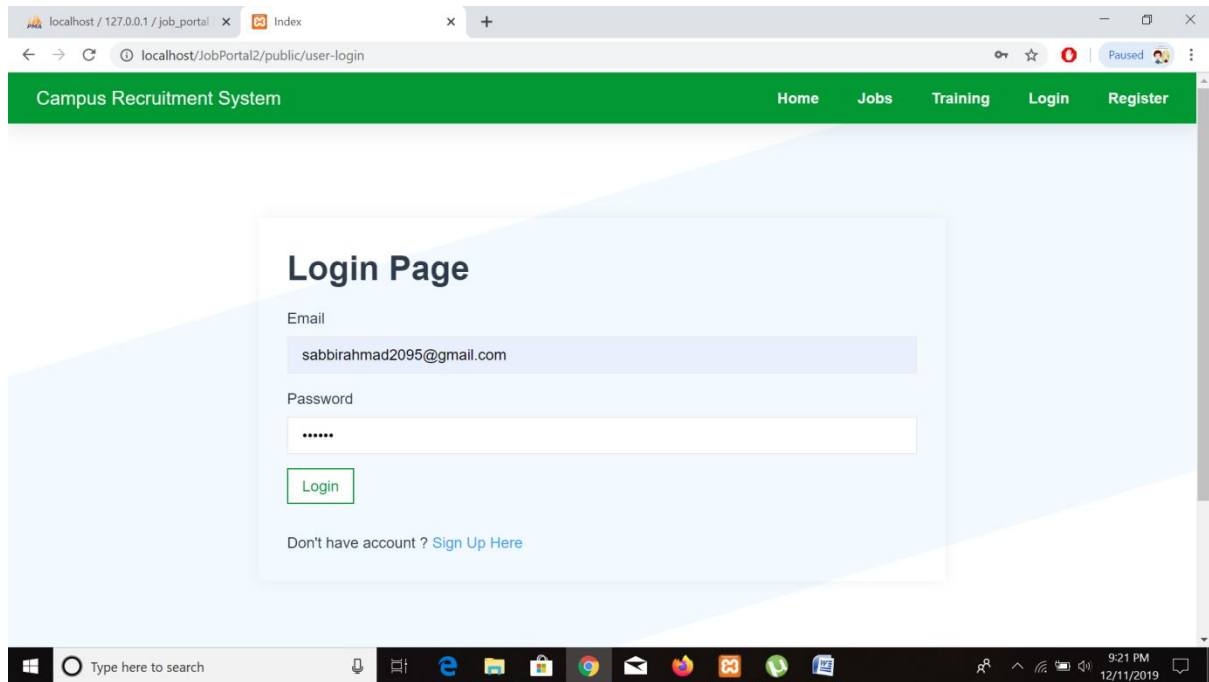


Figure 6.2: Login page

6.3 Employer complete company profile

After complete registration and login employer must be complete company profile. For that reason, now I will provide some screenshots for your better understanding:

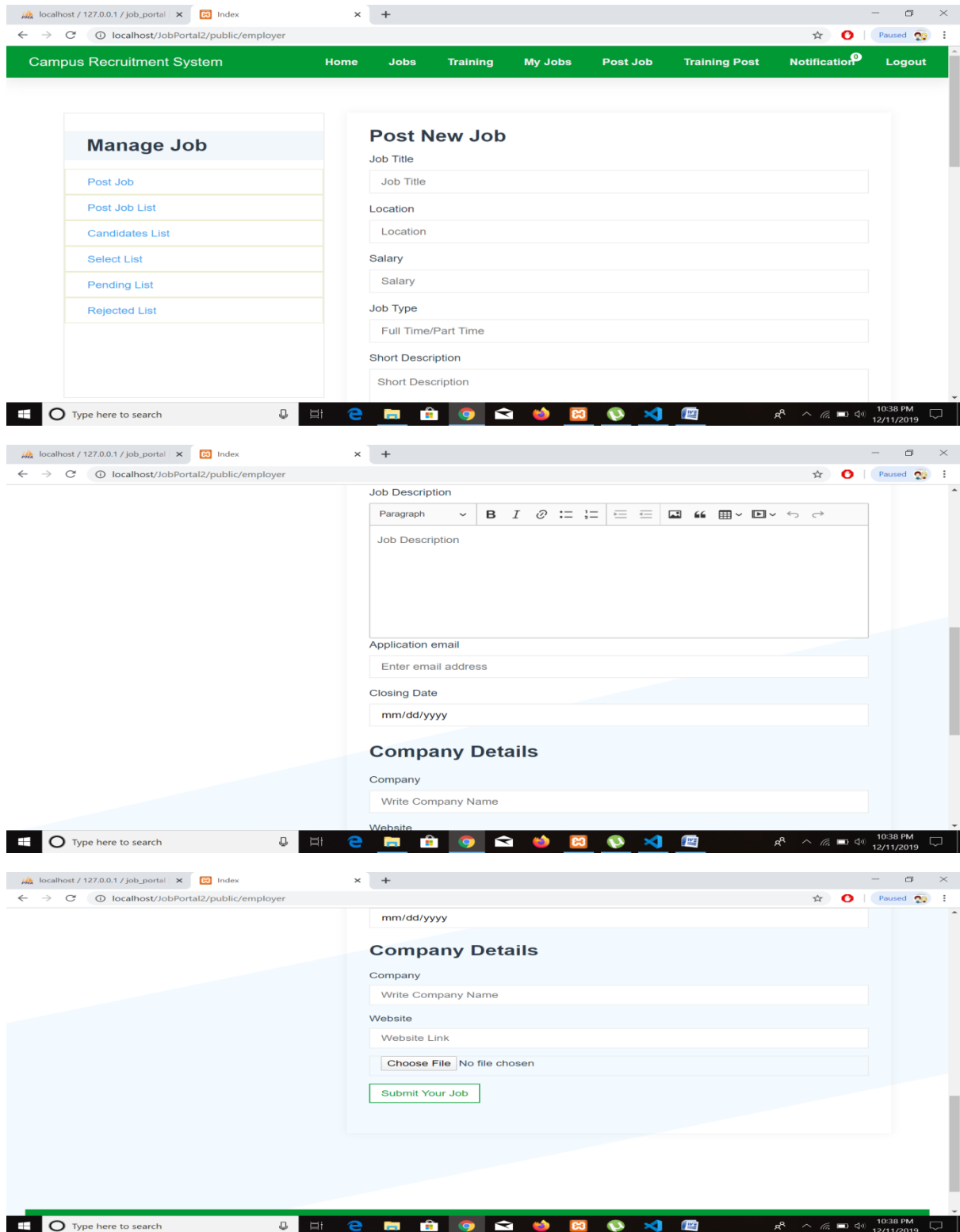


Figure 6.3: Company Profile

6.4 Post Job Page

After complete company profile employer and admin can post job in this page. Now I'm going to show some screenshot of user page below:

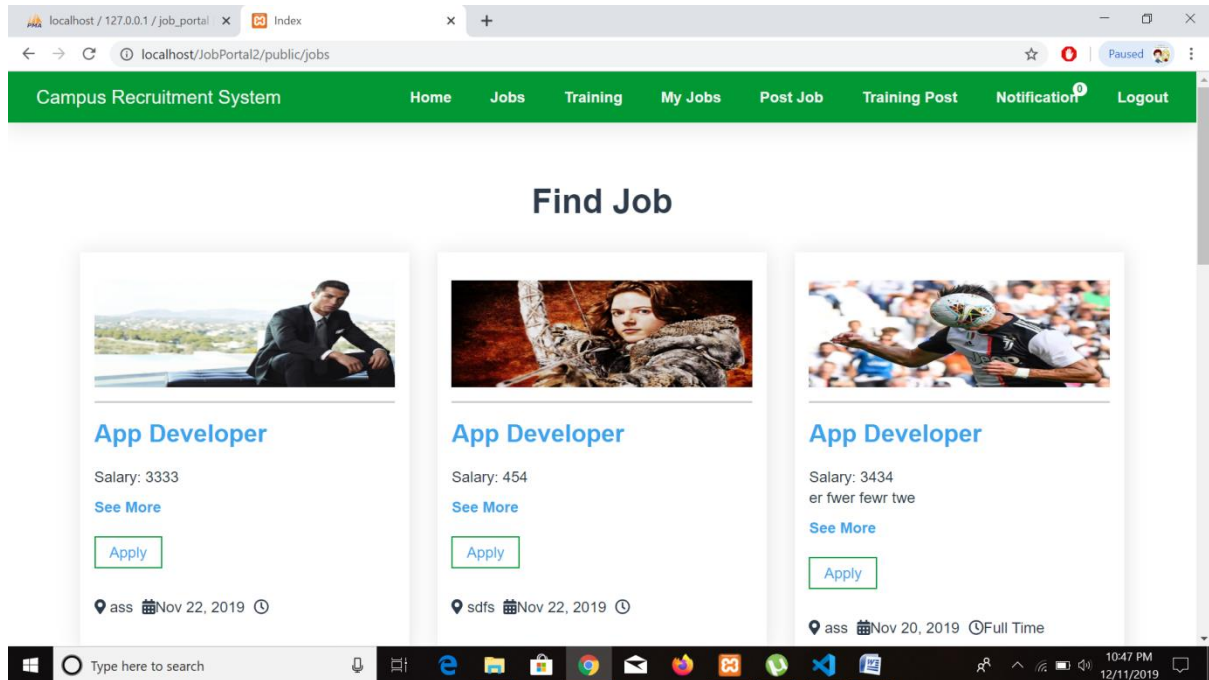


Figure 6.4 Job Post Page

6.5 Job Page

After fill the job post job information's this information store in database. Then store in post job page. This page shows the all post job those employers and admin posted. Now I'm going to show some screenshot of user page below:

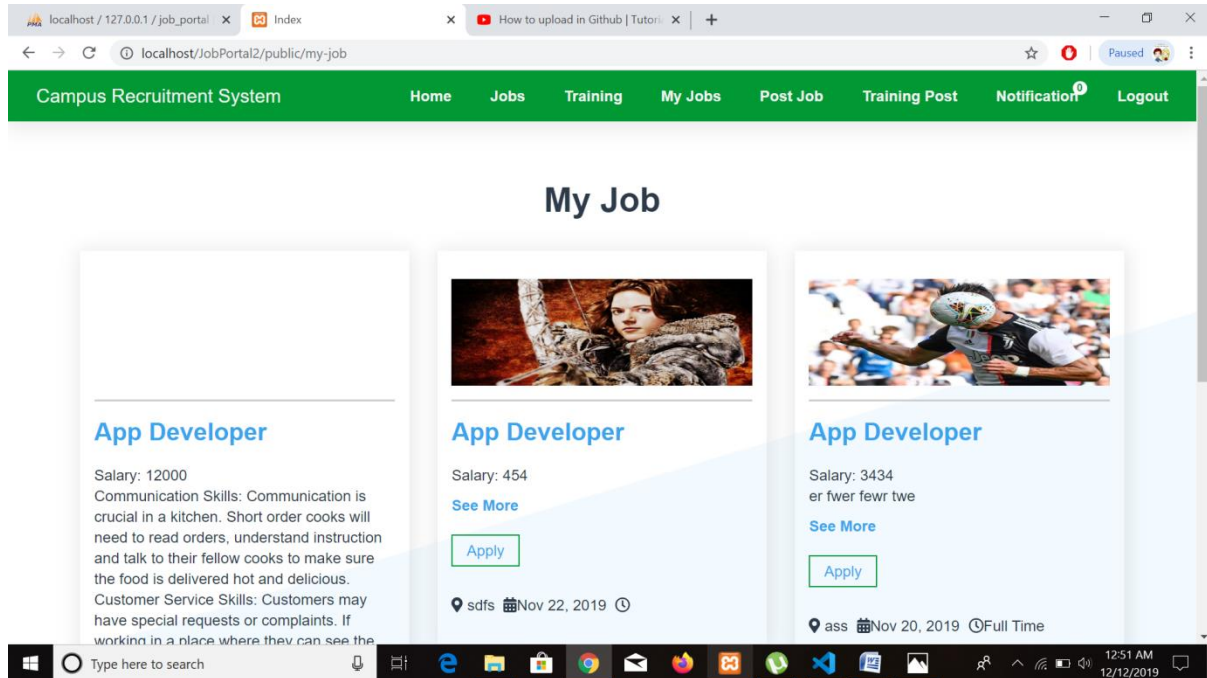


Figure 6.5 Job Page

6.6 Apply a job

After login successfully job seeker can view the job post and also apply in a job post. After apply a job it shows that applied message in job post. Bellow I show the screenshot:

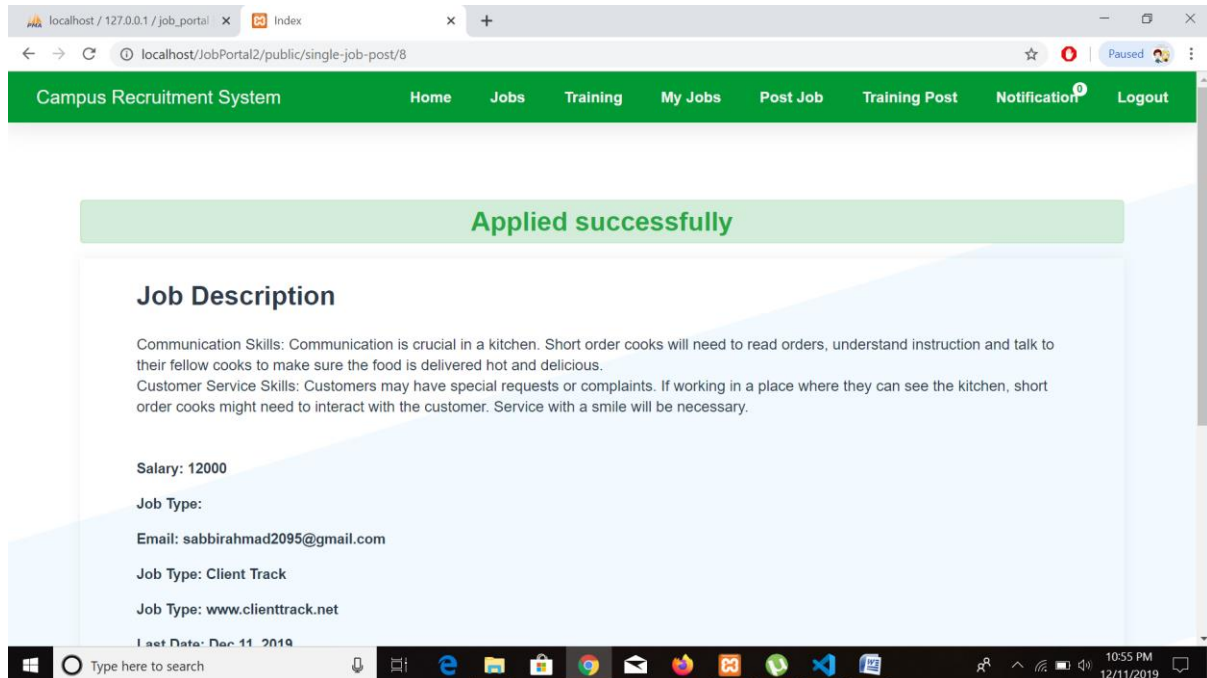


Figure 6.6: Apply Job

6.7 Manage Job Page

In manage job page employer and admin show that how many job they post in their account also show the number of apply candidates:

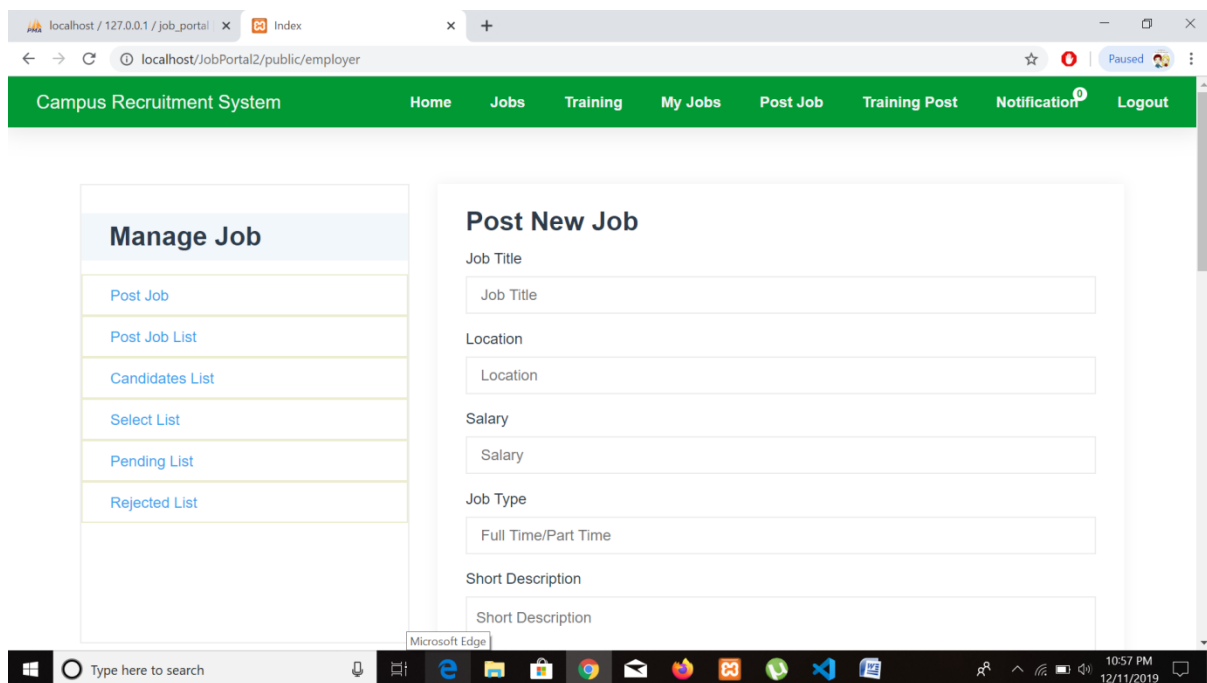
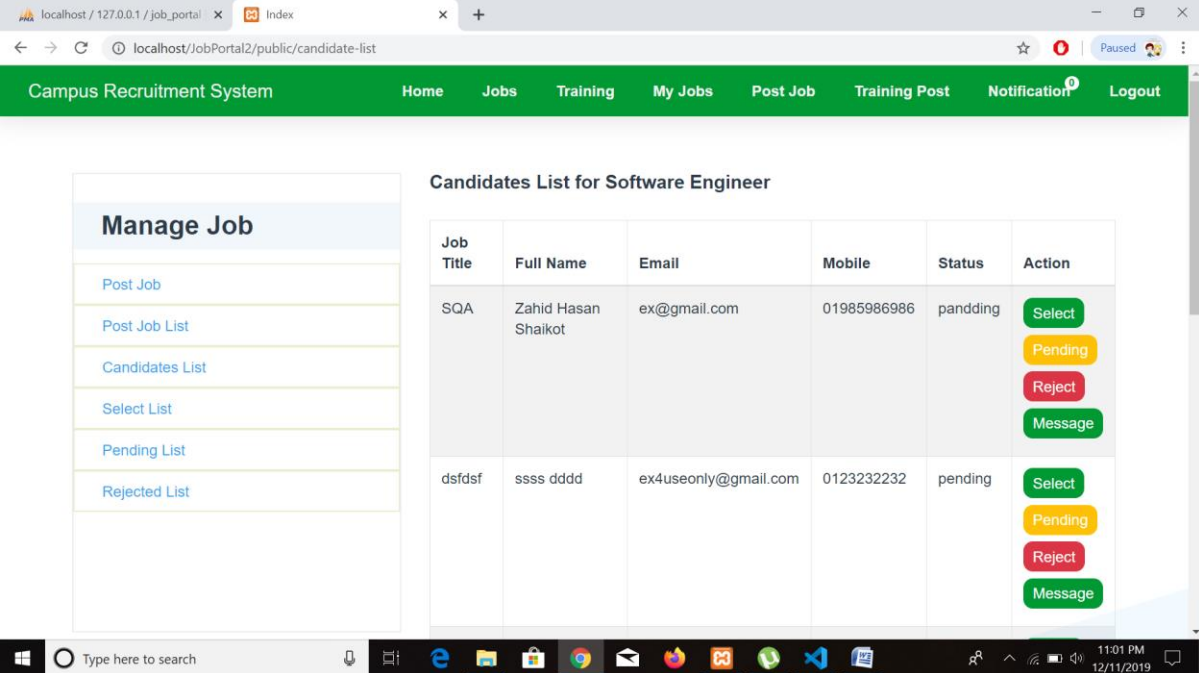


Figure 6.7: Manage Job

6.8 Manage/List candidates

Admin and Employer can manage user by select for job, pending for job and eliminate for job. In select list we can see the selected job seeker. In pending list we can see the pending job seekers and eliminate list we can see the eliminated job seekers:



The screenshot displays a web application interface for a 'Campus Recruitment System'. The main content area is titled 'Candidates List for Software Engineer'. On the left, there is a sidebar under the heading 'Manage Job' with links for 'Post Job', 'Post Job List', 'Candidates List', 'Select List', 'Pending List', and 'Rejected List'. The main table lists candidates with the following data:

Job Title	Full Name	Email	Mobile	Status	Action
SQA	Zahid Hasan Shaikot	ex@gmail.com	01985986986	pandding	Select Pending Reject Message
dsfdf	ssss dddd	ex4useonly@gmail.com	0123232232	pending	Select Pending Reject Message

Figure 6.8: Manage/List Candidate

7.1 Project Summary

I have started to develop my project from May. From the very beginning of developing this project, it needs hard working, patience, persistence to the requirements of stakeholders though it's not take too much to find out all requirements. And then I started to work.

7.2 Limitations

For developing this project, I have face some limitations. Now I will describe those in brief

- **Only web version:** I have designed and developed this project for web version. But there are some other platforms like windows, ios, android. I haven't worked for them. But all platforms user can use by opening any browser and go into my website and start to bidding.
- **Ease-of-use:** I try to design my system look good at a time easy to use. But when I try to delve resizing images, input links, customize pages, they begin to become a painstaking process.

7.3 Future Scope

I have learnt a lot throughout the whole development stage of this project. For making this project developed, some of my fellow helps me a lot. I am very much thankful to all of them as their idea and discussion gave me some opportunities to make my project complete.

7.4 Discussion and Conclusion

I have started to develop my project from May. From the very beginning of developing this project, it needs hard working, patience, persistence to the requirements of stakeholders though it's not take too much to find out all requirements. And then I started to work.

7.5 References

I have gained some knowledge from some platforms. Obviously, I will mention those references. For making my project successful those resources help me a lot. Not I will mention the names below.

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Activity diagram,20July,2008)https://en.wikipedia.org/wiki/Activity_diagram,

UML Sequence diagram,<https://www.smartdraw.com/uml-diagram/>

Database diagram.https://en.wikipedia.org/wiki/Database_design.

Github: <https://github.com/sabbir-ahmad/FinalProject>