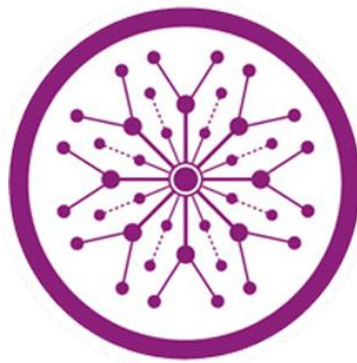


Career Opportunity

Final Year Project

Session "2018-2022"

A project submitted in partial fulfillment of the degree of
BS in Computer Science



Department of Computer Science

Faculty of Computer Science & Information Technology

Superior University, Lahore

Spring 2022

Type (Nature of project)	<input checked="" type="checkbox"/> Development <input type="checkbox"/> Research <input type="checkbox"/> R&D			
Area of Specialization				
<u>FYP ID</u>	FYP-BCSM-F21-082			
Project Group Members				
Sr.#	Reg. #	Student Name	Email ID	*Signature
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The candidates confirm that the work submitted is their own and appropriate credit has been given where reference has been made to work of others

Plagiarism Free Certificate

This is to certify that, I am **M. Zain Tariq**, group leader of FYP under registration no **FYP-BCSM-F21-082** at BS Computer Science Department, The Superior College, Lahore. I declare that my FYP report is checked by my supervisor.

Date: _____ Name of Group Leader: M. Zain Tariq Signature: _____

Name of Supervisor: Mam Amna Zeeshan

Co-Supervisor: Mam Amna Zeeshan

Designation: Lecturer

Designation: Lecturer

Signature: _____

Signature: _____

HOD: Dr. Irfan UL Din

Signature: _____

Project's Report

Career Opportunity

Table 1: Changed Record

Author(s)	Version	Date	Notes	Supervisor's Signature
Zain , Anaiza , Khalida	1.0	10-01-2022	Select Project name	
Zain , Anaiza , Khalida	1.0	10-02-2022	Approved project name by supervisor	
Zain , Anaiza , Khalida	1.0	01-02-2022	Working on project and approved proposal by superior and other faculty member	
Zain , Anaiza , Khalida	1.0	10-02-2022	Then working on approved project	
Zain , Anaiza , Khalida	1.0	20-03-2022	The project will be started chapter wise and updated to supervisor time by time	
Zain , Anaiza , Khalida	1.0	10-04-2022	Add and removed some content according to the superiorvisor instruction	
Zain , Anaiza , Khalida	1.0	20-04-2022	Then FYP I documentation will be completed by final presentation	
Zain , Anaiza , Khalida	2.0	10-05-2022	Then start FYP II and Working on it according to the supervisor instruction	
Zain , Anaiza , Khalida	2.0	20-05-2022	Add some content and images in the documentation and approved by the supervisor and updated time by time related to project documentation	
Zain , Anaiza , Khalida	3.0	12-06-2022	Finalized the documentation	

APPROVAL

PROJECT SUPERVISOR

Comments: _____

Name: _____

Date: _____

Signature: _____

PROJECT MANAGER

Comments: _____

Date: _____

Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

Date: _____


Signature: _____



Career Opportunity

Final Year Project
Session 2018-2022

A project submitted in partial fulfillment of the degree of
BS in Computer Science



Department of Computer Science
Faculty of Computer Science & Information Technology
Superior University, Lahore



Dedication

This work is devoted to our families, who invest time and money in our education and professional development so that we can compete with others and embrace difficulties both during and after our educational careers. They'd do it. We're pleased to see that we're promoting a simple and pleasant way of living. So now it is up to us to put in the effort .To make our ambitions a reality and to make our parents proud of us Second, we must express our gratitude to our supervisors, professors, and instructors for their efforts .They always provide direction because without it, we are like blank paper. Educate us how to do things properly. We pray for the well-being of my family members and my teacher.

Acknowledgements

I give thanks to the Almighty God for his direction, safeguarding, wisdom, knowledge, and understanding during my study . My supervisor, Mam Amna Zeeshan, has my sincere gratitude for his unwavering support and meticulously coaching me throughout the time. In spite of his tight schedule and engagements, he satisfied my many demands on his time. I thank you for diligence and dexterity.

Executive Summary

Career opportunity is a web based application .It is the web portal for job seekers . The Career opportunity describes major responsibilities and essential functions, as they exist today. The Career opportunity also allow chatting with job providers allow finding remote jobs around the world where you want. It provides career advice from experts on the website. Job seeker can upload his/her resume so if Job provider can see their resume he responds on their resume. It can easily contact with any company with your own related skills or field. He/She can also send the resume in different companies .It can also provide the facility to find remotely jobs and do work from home.

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Chapter 1

Introduction

Chapter 1: Introduction

The Career opportunity is the web portal for job seekers. The Career opportunity describes major responsibilities and essential functions, as they exist today. The Career opportunity also allow chatting with job providers and allow finding remote jobs around the world where you want. It provides career advice from experts on the website. Job seeker can upload his/her resume so if Job provider can see their resume and he responds on their resume.

Background

Job portal can make an easy way for to users can find jobs in different company and provide the facility of resume templates. Users can also communicate with the company.

Motivations and Challenges

This app is also for those persons who are the beginners on searching jobs so; it can easily find your own field job. The design of portal is very reliable for users to use.

Goals and Objectives

This service's goal is to save you time. Apply in different companies in minimum time and send resume easily. Users can communicate with the company also.

Literature Review/Existing Solutions

Competitors

- Indeed
- Job board finder

Gap Analysis

We use chat box and resume templates in job portal.

Proposed Solution

The Career opportunity provides information from all over the world where a Job seeker can apply easily and also try filters like salary, region, job type ,gender etc. If a job seeker want, job from anywhere in the country, he/she go to career opportunity and select his/her country and the all jobs for their country is on portal. Job seeker can select city from their country and apply

easily for any job that requirements match to their work. Job seeker can upload his/her resume for easily find jobs relevant to their skills. The Career opportunity also provide remote jobs for their job seekers and they can chat with the company or job provider that post this job. Job seeker also get career opportunity advice from experts and apply for jobs that match to their on skills.

Project Plan

Our project is based on online web application .We use REACT.JS framework in project with multiple more tools, like Tailwind CSS, GitHub ,SQL , Mongo db etc. We also use different functionalities on frontend in our project with different algorithms.

Work Breakdown Structure

Work Breakdown Structure divided in three team members

- Zain Tariq
- Anaiza Zulfiqar
- Khalida Parveen

Table.1.1:Roles & Responsibility Matrix

WBS #	WBS Deliverable	Activity #	Activity to Complete the Deliverable	Duration (# of Days)	Responsible Team Member(s) & Role(s)
1	Requirement Phase				
1.1	Analyzing			3	Anaiza Zulfiqar ,Khalida Parveen
1.2	Documentation			2	Khalida Parveen
2	Frontend Development phase				
2.1	Frontend Development			20	Anaiza Zulfiqar

3	Backend Development Phase				
3.1	Backend Development			25	M. Zain Tariq
4	Integration Phase				
4.1	Frontend /Backend Integration			12	Anaiza Zulfiqar , M. Zain Tariq, Khalida Parveen
5	Testing and Check Bugs				
5.1	Testing			6	Zain Tariq
5.2	Refining and improving			5	Anaiza Zulfiqar, Khalida Parveen

Gantt Chart

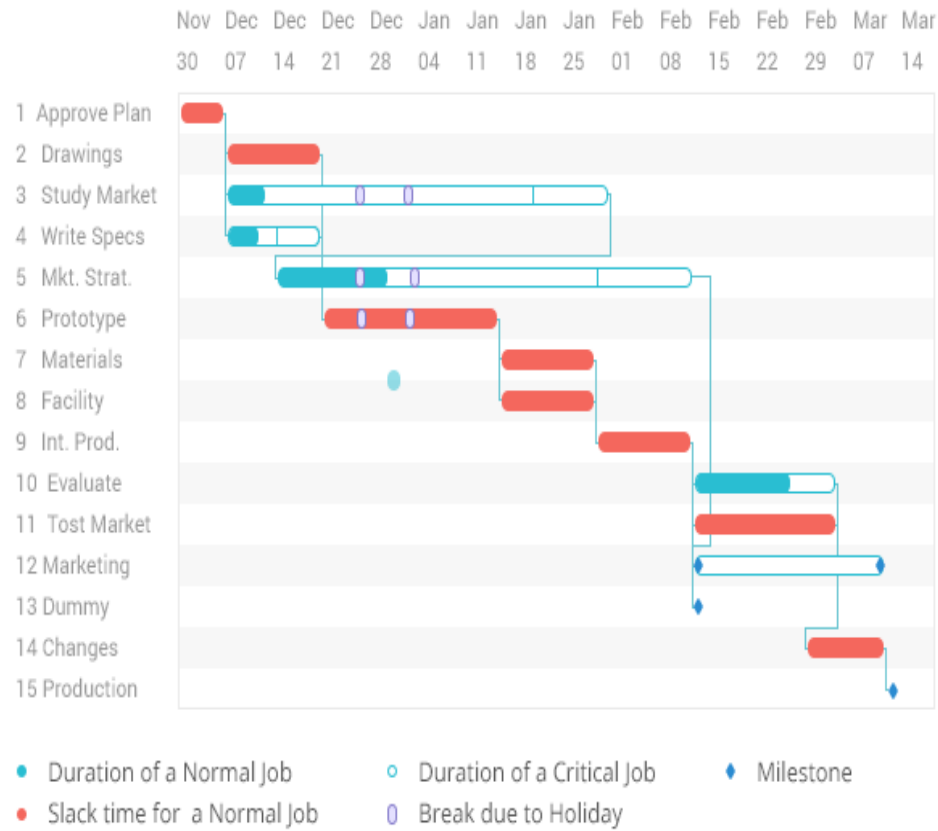


Figure 1.1: Gantt Chart

Report Outline

Our web application consists of multiple features after gathering the function requirements with the analysis. Users search your own field jobs. Companies provides different jobs according to different users and this portal also provide the template of resume.

Chapter 2

Software

Requirement Specifications

Chapter 2: Software Requirement Specifications

Introduction

Career opportunity is the web portal for job seekers. The Career opportunity described major responsibilities and essential functions, as they exist today. The Career opportunity also allow chatting with job providers and allow finding remote jobs around the world where you want. Job seeker can upload his/her resume so if Job provider can see there resume and he response on their resume.

Purpose

Career opportunity provides information from all over the world where a Job seeker can apply easily and try filters like salary, location, job type, city, and many more. If a job seeker wants a job from anywhere, in the country he/she go to career opportunity and select his/her country and the all jobs for their country is on portal. Job seeker can select a city from their country and apply easily for any job that requirements match their work. Job seekers can upload his/her resume easily and find jobs relevant to their skills. The Career opportunity also provide remote jobs for their job seekers and they can chat with the company or job provider that post this job. Job seeker also get career advice from experts and apply for jobs that match to their skills.

Document Conventions

Our web application consists of multiple features after gathering the function requirements with the analysis. Companies provides different jobs according to users and this portal also provide the template of resume.

Audience

- Fresh graduate students
- jobless and job seekers
- experienced person

Product's Scope

Career Opportunities for the job seekers and job providers to provide jobs.

Overall Description

Job portal provides different jobs in different companies. Firstly, the user can login/sign up the app and then go to the home page and search own field jobs, if any user wants to create your cv/resume then use our portal template.

Product Functions

For job seeker:

- User can login.
- User can signup
- User can use filters like city, job type, and salary.
- User can apply on any job in the world.
- User can chat with job provider or company
- User can upload his/her resume
- User can find remote jobs
- User can withdraw any past purposely.
- User can update their CV/resume.
- User can find perfect match jobs to their skills.
- User can see jobs related to their skills if he/she upload there resume

Job provider:

- Signup
- Login
- User can post new jobs
- Update the jobs
- Update the time and date
- Can Close job

User Classes

- Sign in/Login
- Job Portal
- Resume template
- Profiles
- Jobs

- Candidates

Operating Environment

OS (window)

Software (visual studio, node js)

Hardware (laptop, computer etc.)

Design and Implementation Constraints

The portal is design in such a way the user can first login r signing with their google account. Then open the home page and visible the jobs and users can easily apply for jobs with your own specific fields. User can also make CV/resume on this website .When the user can send resume, portal show related jobs for their users related skills

User Documentation

We provide a demo data firstly before when we start the app so, it is useful for beginners.

External Interface Requirements

User Interfaces

- User can log in.
- User can signup
- User can use filters like city, job type, and salary.
- User applies to any job in the world.
- User can chat with job provider or company
- User can upload his/her resume
- User can find remote jobs
- User can withdraw any past proposal.
- User can update their CV/resume.
- User can find perfect match jobs to their skills.
- User can see jobs related to their skills if he/she upload there resume

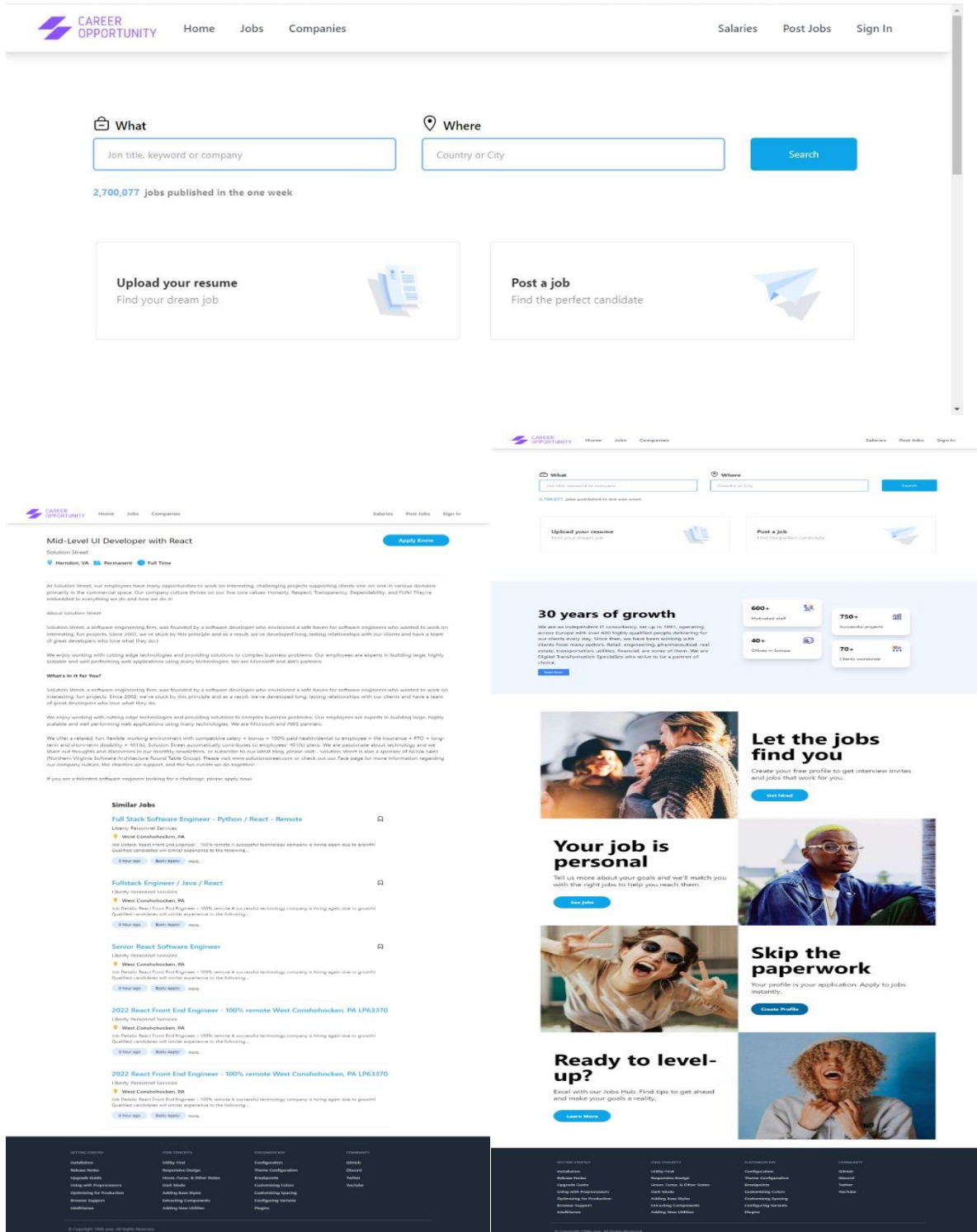


Figure 2.1: User interface

Hardware Interfaces

- Laptop, computer system , mobiles etc.
- Software Interfaces

Tools & Techniques

- Visual studio
- React.js
- Tailwind CSS
- GitHub
- SQL
- Node js

Communications Interfaces

- Users can communicate with company with chat box (Socket.10 (Web Sockets) RPC), company e-mail address .
- Standard (http)

System Features

We use different Algorithms like searching algorithm, filtering the job years. User's sent cv to companies and communicate with chat box and others. User can also create your resume with portal given template.

System Feature 1

- **Description and Priority**

Stimulus/Response Sequences

Make easy way to use any app r website

- **Functional Requirements**

It provides different algorithms. We use searching Algorithms and filtering algorithms .When user's sent the resume to any company , portal match's the resume skills and show related jobs.

Other Nonfunctional Requirements

Performance Requirements

It performs multiple features like:

- Resume template
- Chat box

- Filter job year
- Show jobs related resume skills

Security Requirements

This web app can provide security .When user's firstly sign in then use verification code.

Software Quality Attributes

Our Software is flexible, maintainable, reliable etc. We design this app in such a way the new user can use easily and understand.

Other Requirements

Visual studio, React.js, Tailwind CSS, GitHub, Sql , Mongo db. The purpose of this service is to save time. You can apply in different company's in minimum time and send resume easily .Users can communicate with the company also.

- Provides the resume template feature.
- Chat Box to communicate with companies.

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

Use case diagrams assist in demonstrating how design choices and development priorities are made based on a system's functional needs. It also aids in locating internal or external factors that may have an impact on your system and need to be taken into account. The use case diagram should only have a few simple shapes. Some of the connections between use cases, actors, and systems are outlined. Use cases outline the desired behaviour (what), not the precise means (way), by which it will be accomplished. Cases can be used to display textual and graphical representations once they have been defined.

Use Case Model

“User” first login or Sign then go to home page after verification .Search jobs, filter job year wise. Make a resume with the portal given template, chat with companies’ developer update jobs portal and manage. Users can give feedback.

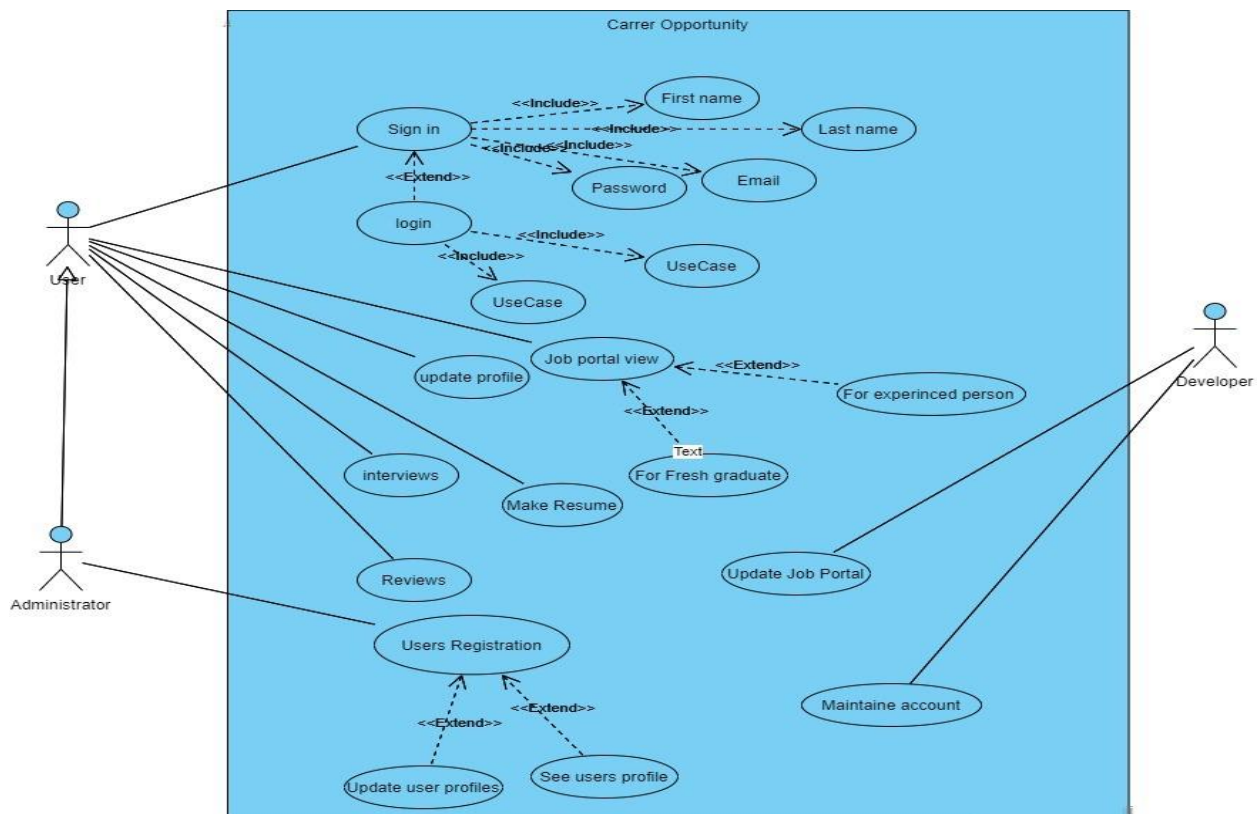


Figure 3.1: Use case model

Chapter 4

System Design

Chapter 4: System Design

Visual representation with UML diagrams can provide both low-level and high-level insights into application ideas and layouts. Different types of diagrams can be used to represent a system or application, depending on the system, employee's, and level of detail of the model you are creating.

Architecture Diagram

An architectural diagram is a type of system diagram used to represent relationships, restrictions, and boundaries between components as well as the overall structure of a software system. First we login the system then search the job. Data store in database, then select for interview and make employee's, then login.

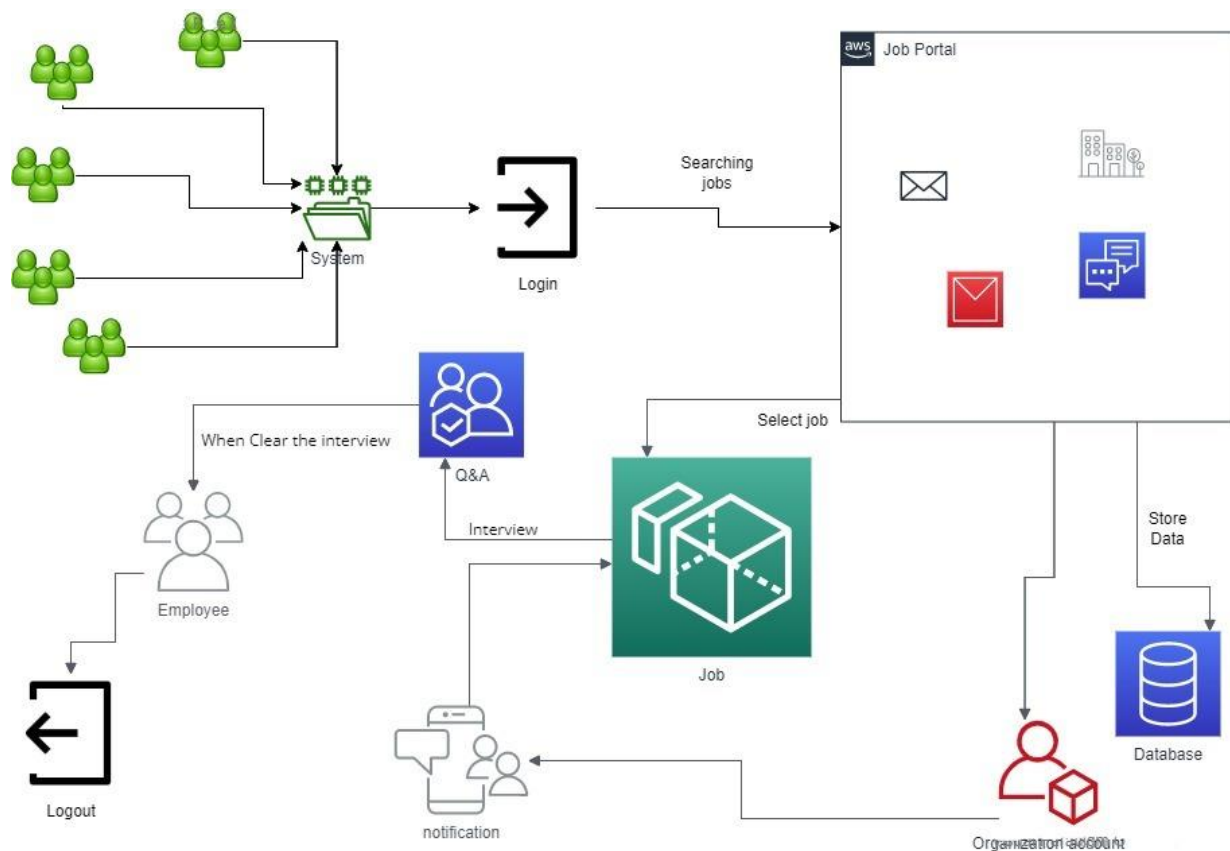


Figure 4.1: Architecture Diagram

Entity Relationship Diagram with data dictionary

The relationships between individuals, things, locations, concepts, or events inside an information technology (IT) system are depicted graphically.

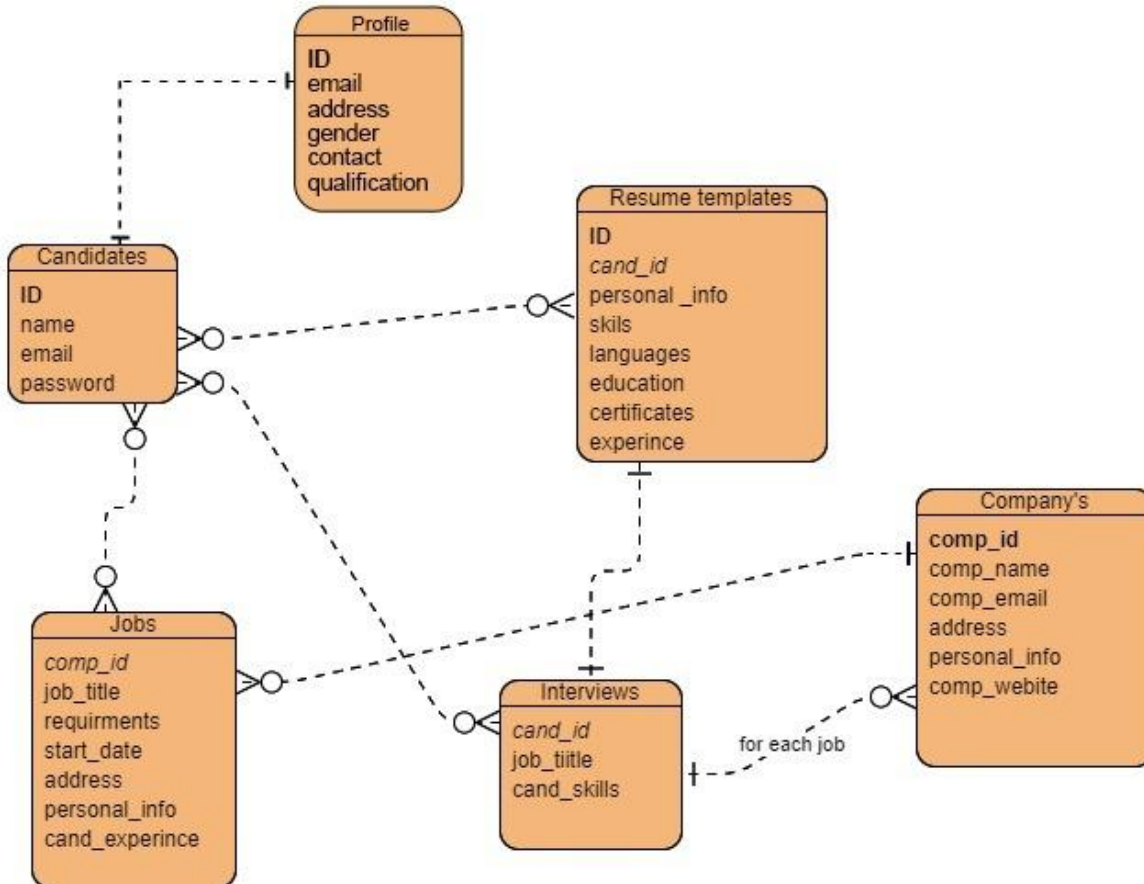


Figure 4.2: Entity Relationship Diagram with data dictionary

Class Diagram

These are three classes and connected with different relation's one to many ,many to many, one to one etc then explain the attributes of each class .

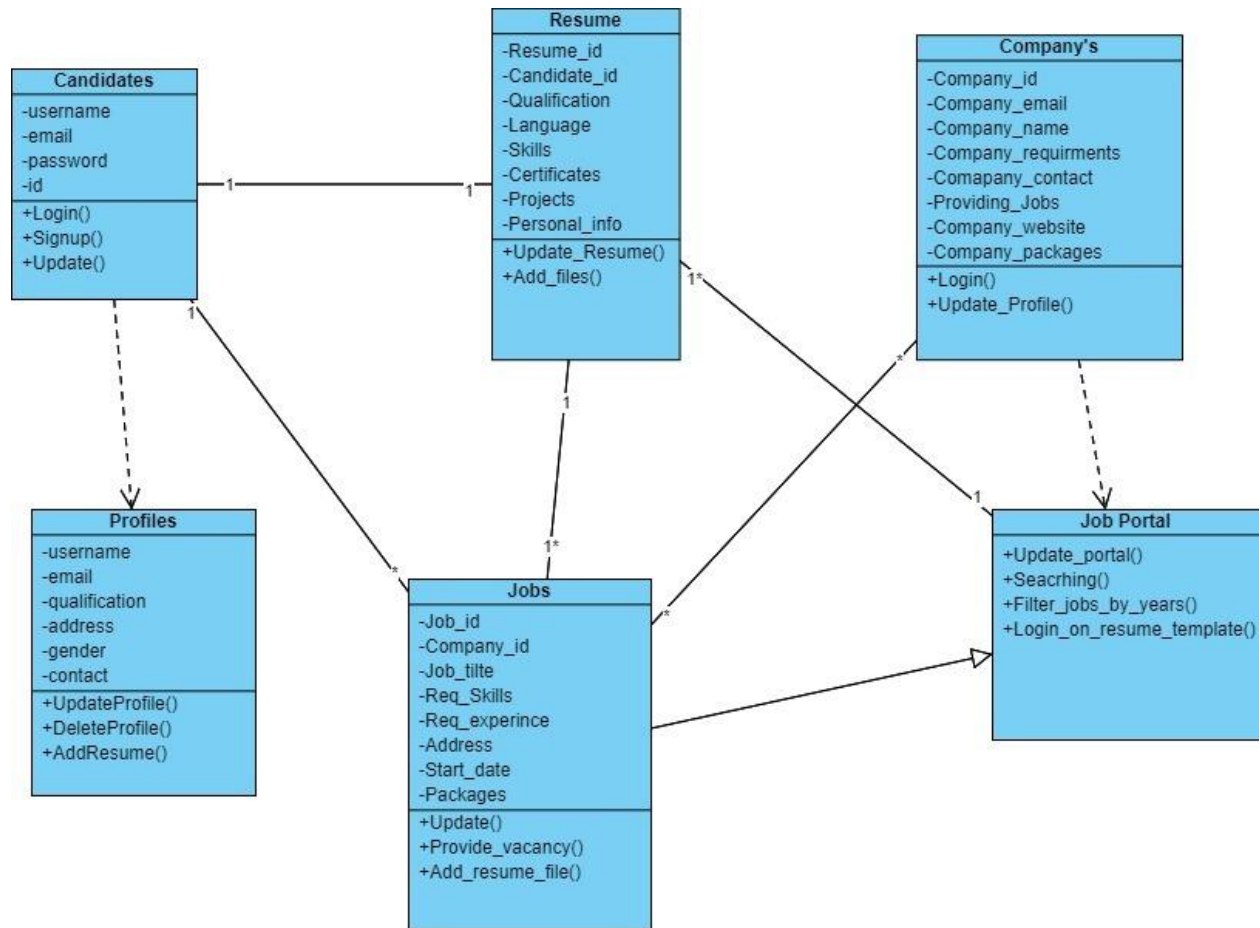


Figure. 4.3: Class Diagram

Sequence / Collaboration Diagram

This grouping chart could be a bound together modeling dialect chart that speaks to the grouping of messages between objects in an interaction. It comprises of a gather of objects spoken to by helps and messages that are traded over time whereas they associated.

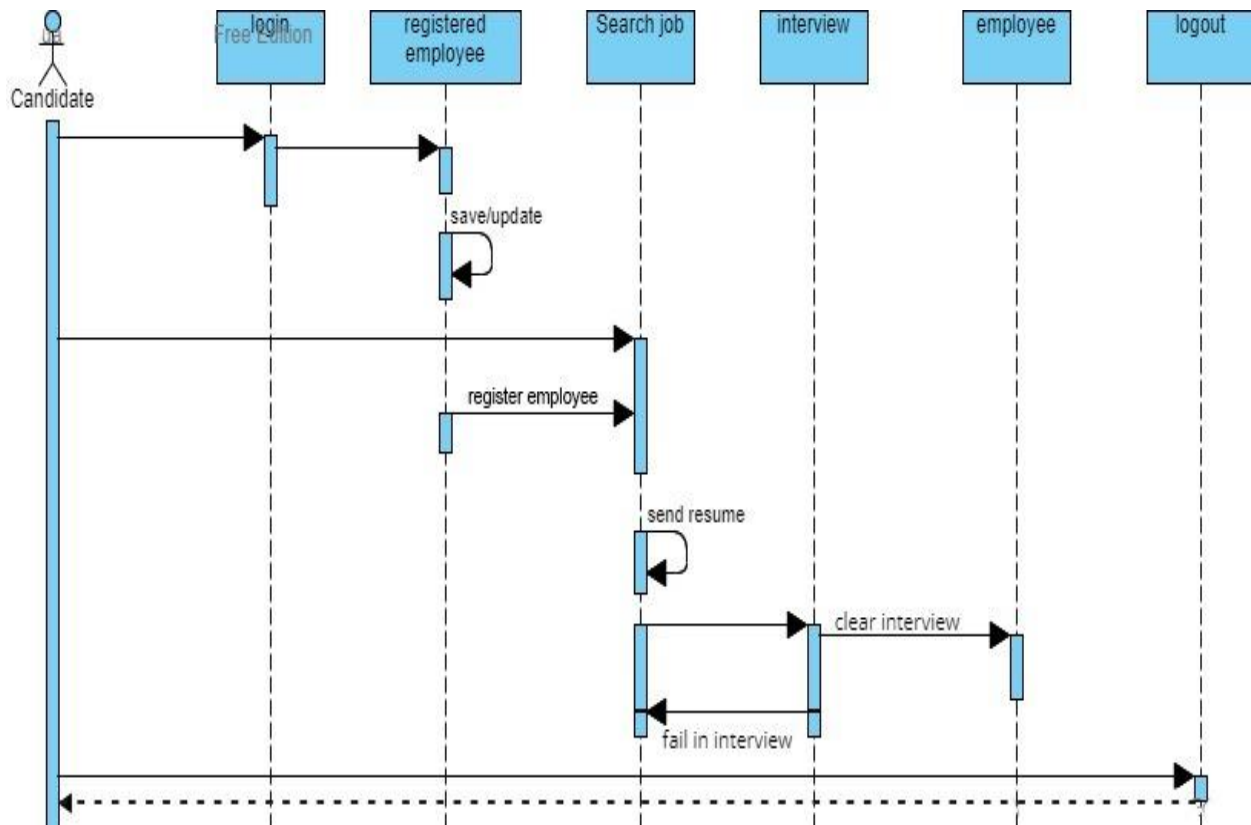


Figure. 4.4: Sequence / Collaboration Diagram

Activity Diagram

This diagram represents a set of actions or control flows in a system similar to a flowchart or data flow diagram.

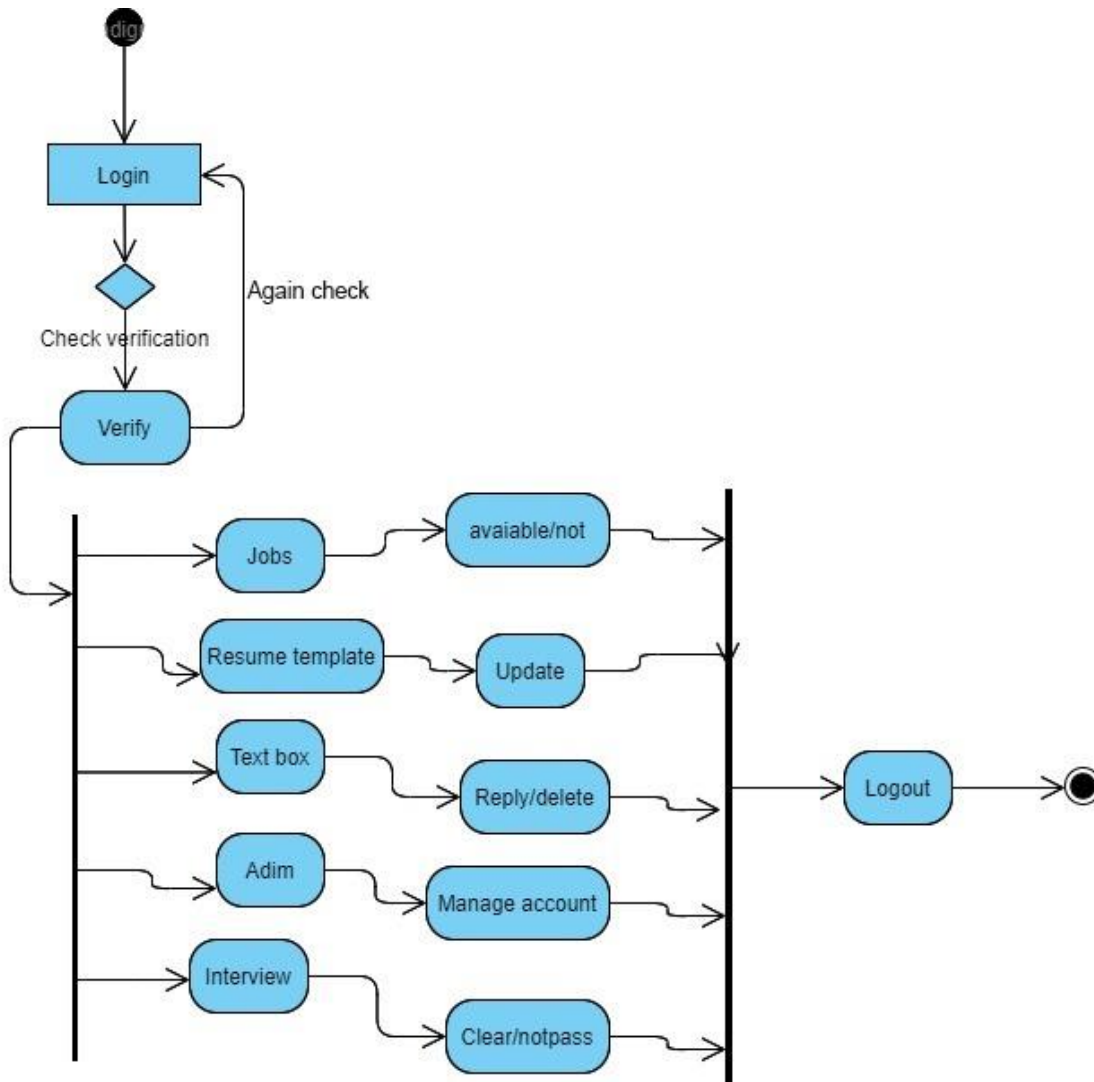


Figure.4.5: Activity Diagram

State Transition Diagram

This diagram might help you understand how job portals typically operate. They can be a great source for anyone looking for work. The following step is indicated by an arrow, which you may easily follow or skip if necessary.

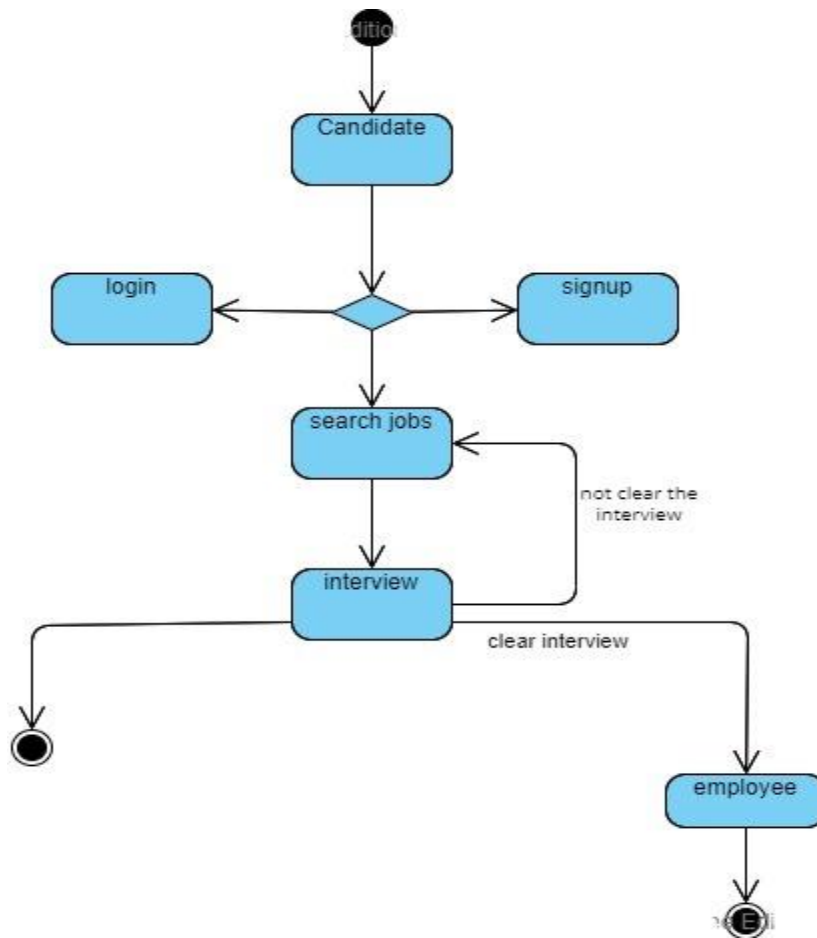


Figure. 4.6: State Transition Diagram

Deployment Diagram

Deployment Diagram have many components to explain this system.

Association:

Line representing a message or other form of communication between nodes.

Component:

Rectangle with tabs to display software items.

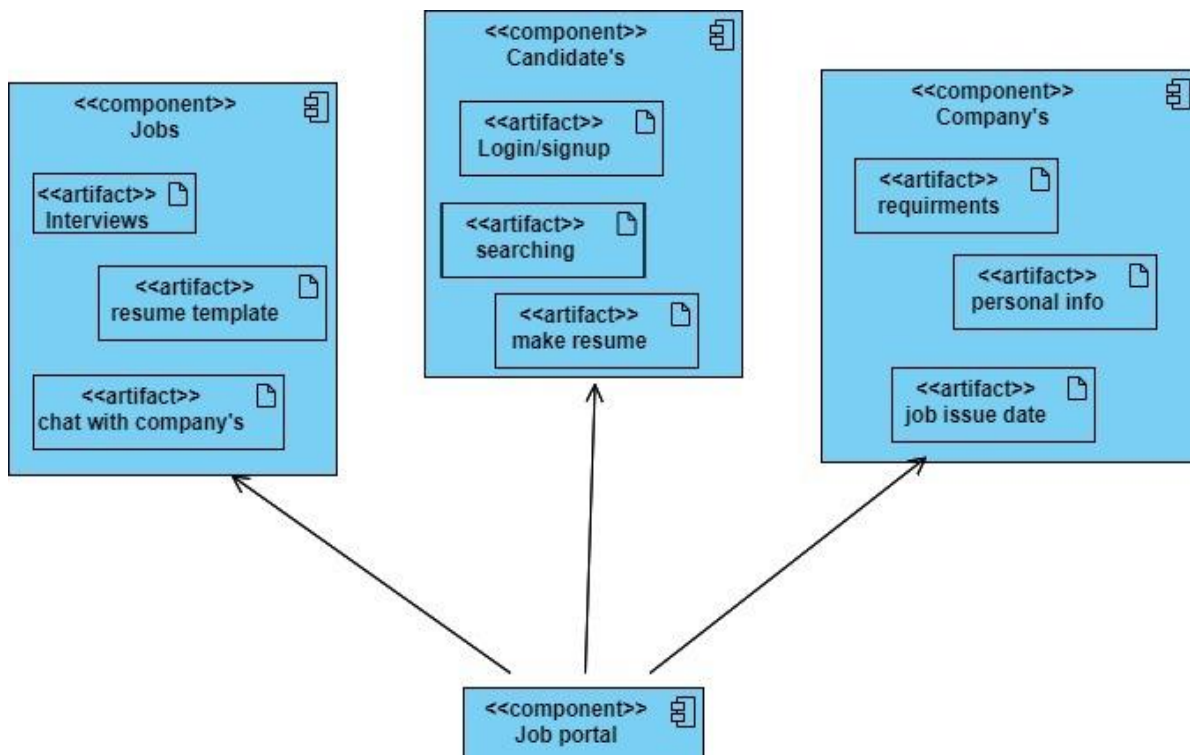


Figure. 4.7: Deployment Diagram

Chapter 5

Implementation

Chapter 5: Implementation

We implement multiple fractures in this job portal and have maintainability. In this portal, we add different algorithms. Design implementation is helpful and easy to understand for new users and use the portal for searching your own skills job ,make resume by using template also have chat box for communication with companies.

Components, Libraries, Web Services and stubs

A web code whose open interfacing ties are characterized and composed utilizing HTML. The definition can be found in other program frameworks. These frameworks can interact with web administrations within the way indicated by the definition utilizing HTML-based messages transmitted by the Web Convention.

Libraries:

- React js
- Tailwind CSS
- Java script
- RDBMS
- React icons
- Google fonts

Stubs:

A web software who open interfacing and ties are characterized and composed utilizing HTML. The definition can be found in other computer program frameworks. These frameworks can interact with web administration's within the way indicated by the definition utilizing HTML-based messages transmitted by the web convention.

Deployment Environment

- OS (window)
- Software (Visualstudio, nodejs)
- Hardware (laptop, computer system etc.)

Tools and Techniques

- Visual studio
- React.js
- Tailwind CSS
- GitHub
- SQL
- Node.js

Best Practices / Coding Standards

- Easily Update Coding Standards With Care
- Use Coding Rules (efficient way) and Follow Recommendations
- Plan for Rule Deviations.
- Know Why You're Using It.

Version Control

In this version, the controls allow multiple people to work on one project at the same time in different companies, like work, but the choices are made after the interview. Customers can easily find his own dream company for a job with your own skills.

Chapter 6

Testing and Evaluation

User Manual

User Guide This section contains application guidelines for your convenience.

Landing page:

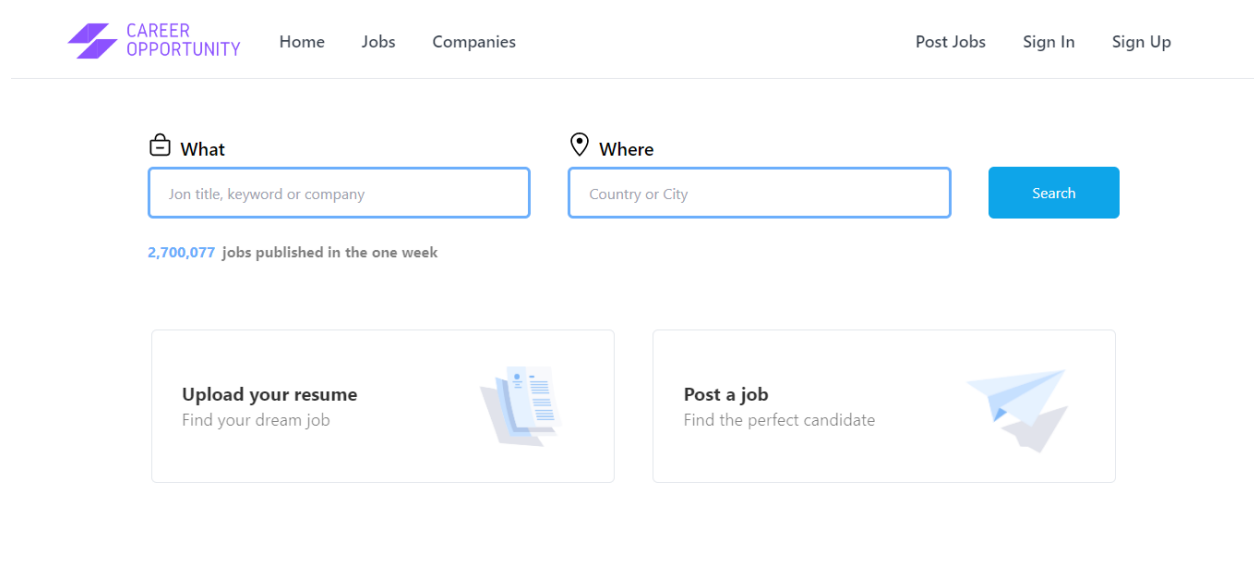


Figure. 6.1: Landing page

Job with filters:

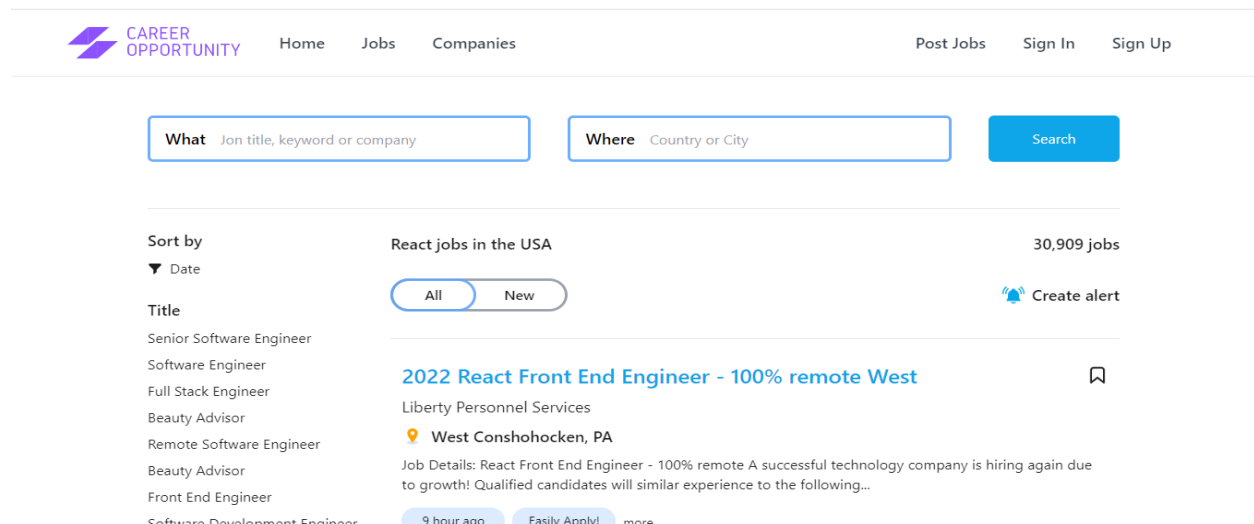


Figure. 6.2: Job with filters

Create resume and update resume:

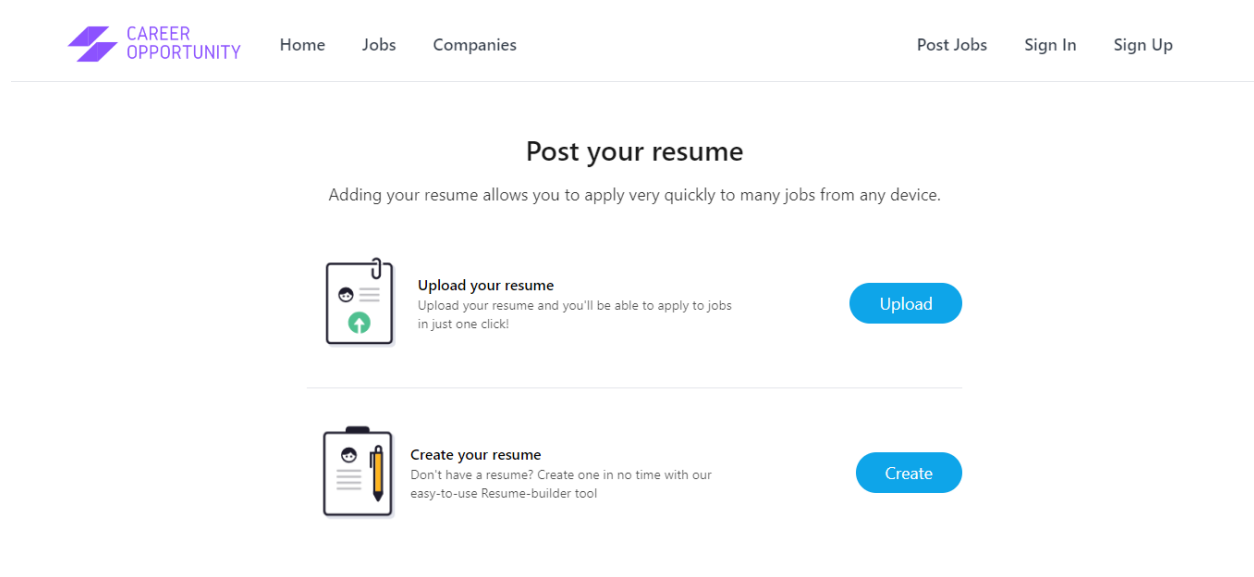


Figure. 6.3: Create resume and update resume

Post job:

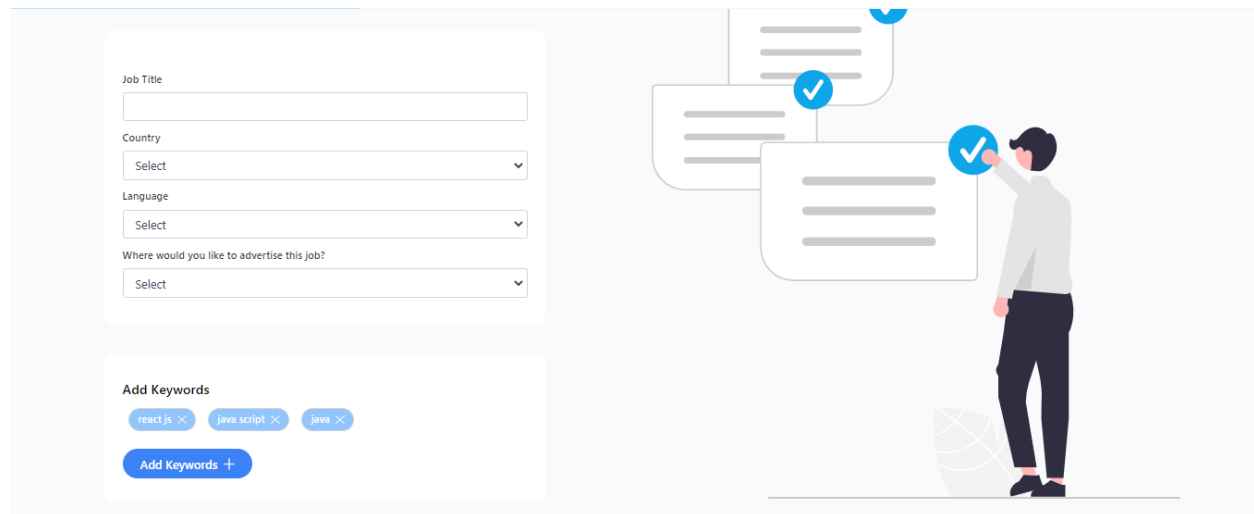


Figure. 6.4: Post job

Login Screen:

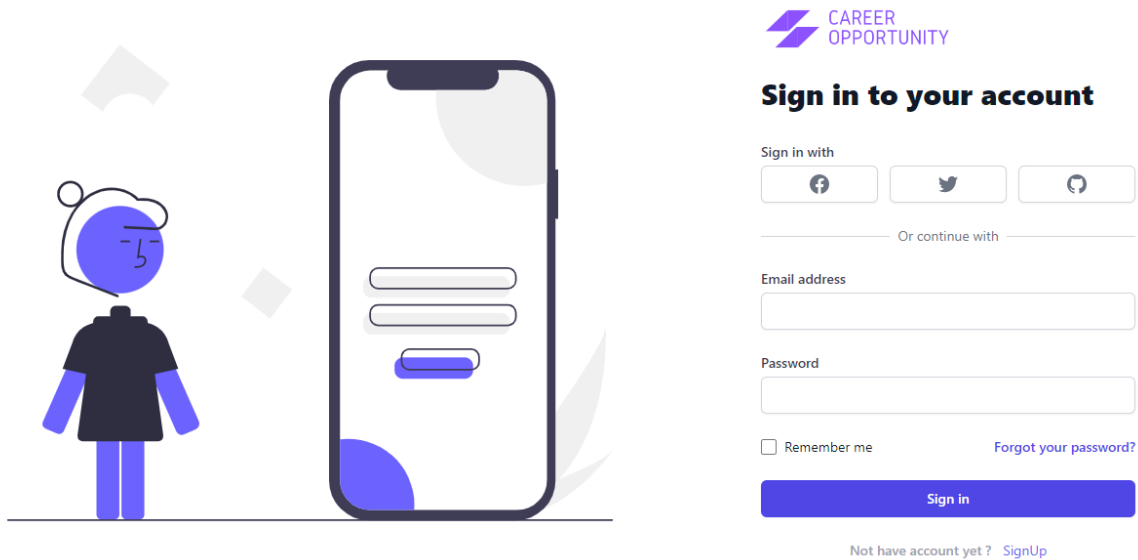


Figure. 6.5: Login Screen

Sign up:

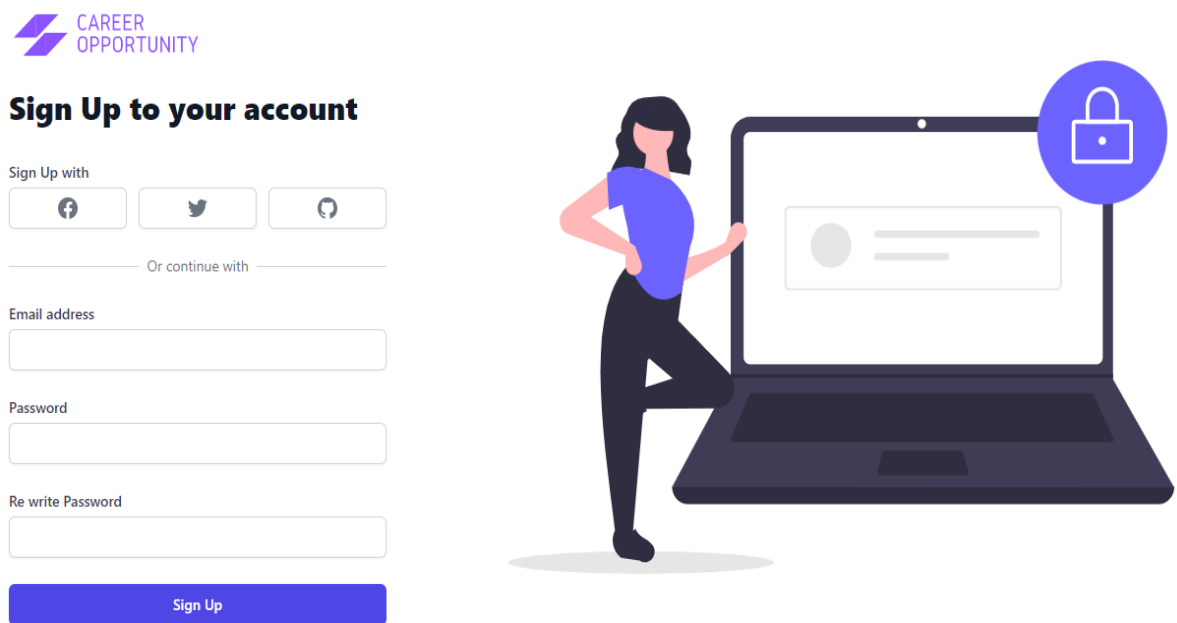


Figure. 6.6: Sign up

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

Project Summary

Career Opportunity is the job Portal. Latest Job updates in career Opportunity .Find any type of jobs on Career Opportunity. It can contact easily with any company with your own related skills or fields . If the job seeker can search for jobs of all kinds, create a resume and upload it to the Career Opportunity. Job seekers should not pay for a job or provide personal information to get a job.

Achievements and Improvements

Career Opportunity can improve day by bay. Career Opportunity can create many jobs for different types of fields and skills . Career opportunities give information from all around the world, allowing job seekers to apply quickly and use filters such as pay, job type, city, and many others. If a job seeker wants to work anyplace in the country, he or she should go to career opportunity and select his or her country, which will bring up all available positions in that country. Job seekers can choose a city in their country and apply for any job that matches their qualifications. A job seeker can upload his or her resume to make it easier to find employee's that coordinate their qualifications.

Critical Review

Competitors

- Indeed
- Jobfinder
- Jobz.pk

Lessons Learnt

Career Opportunity gives you an information about any type of jobs according to their skills . Job seekers can apply for any job that meets their qualifications in any city in their country. A job seeker can upload his or her resume to make it easier to find jobs that match their skill .

Future Enhancements/Recommendations

The most important life skills come from interpersonal encounters and liberal arts education. Curiosity, originality, initiative, transdisciplinary thinking, and empathy are abilities that can help you succeed in today's world and in the future. These are human-specific abilities that machines and robots cannot duplicate.

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