# "CAREER HUB"

## A PROJECT REPORT

### *Submitted by*

## GOHIL AKASH (ET23MTCA015)
## JHA SHUBHAMKUMAR (ET23MTCA020)
## SOLANKI KHUSHALKUMAR (ET23MTCA062)

**Under the Guidance Of**
Prof. Gayatri Kapadia

### *In fulfillment for the subject Software Project-2 (MTCA16206)*

## Master of Computer Applications

At



## Sarvajanik College Of Engineering & Technology, Surat

## Sarvajanik University, Surat.

**May, 2024**

**Sarvajanik University**
**Sarvajanik College of Engineering & Technology, Surat.**
**Master of Computer Applications Department**
**Academic Year 2023-24**

**Date: 17/05/2024**

# CERTIFICATE

This is to certify that the project entitled "CAREER HUB" has been submitted by GOHIL AKASH (ET23MTCA015), JHA SHUBHAMKUMAR (ET23MTCA020), SOLANKI KHUSHALKUMAR (ET23MTCA062) towards fulfillment for the subject Software Project -II (MTCA16206) in 2$^{nd}$ Semester of MCA of Sarvajanik University, Surat during the academic year 2023-24.

**Guide Name:  Prof. Gayatri Kapadia**

**Prof. Gayatri Kapadia**
**(Guide's Signature)**                                        **Head, M.C.A. Department**

**Examiner's Signature:**

**1**. _____

**2**. _____

# ACKNOWLEDGEMENT

We extend our heartfelt gratitude to all those who have illuminated our path to the successful completion of this project. Special appreciation is reserved for our esteemed project guide, **Prof. Gayatri Kapadia**, whose unwavering guidance and support were indispensable throughout this journey.

We also wish to express our sincere thanks to the Head of our Department, **Prof. Gayatri Kapadia**, and the entire MCA Department team for their invaluable assistance and encouragement, which played a pivotal role in the realization of our project goals.

Thanking all.

GOHIL AKASH (ET23MTCA015) _____

JHA SHUBHAM (ET23MTCA020) _____

SOLANKI KHUSHAL (ET23MTCA062) _____

# TABLE OF CONTENTS

# 1. Introduction

## 1.1 Proposed System and its Objectives

### 1.1.1 Proposed System:

The career hub website is an innovative online platform tailored to revolutionize the job search experience. Harnessing cutting-edge web technologies and user-centric design principles, the platform aims to offer a seamless, visually engaging, and secure environment for users to explore career opportunities with ease.

**Key features:**

- ➢ User Authentication and Authorization
- ➢ Job Posting and Editing
- ➢ Applicants Management
- ➢ User Profile Management
- ➢ Job Search and Filtering
- ➢ Save Job

### 1.1.2 Objectives:

**Efficient Job Application Process:**
Simplify the process for job seekers to find and apply to relevant job opportunities through a user-friendly interface.

**Seamless Job Posting:**
Enable recruiters to post job listings easily and efficiently, with options to edit and manage job details as needed.

**User Profile Management:**
Allow users to create, update, and manage their profiles, enhancing their ability to showcase their skills and experiences to potential employers.

**Job Saving Functionality:**
Enable users to save job listings for future reference, allowing them to revisit and apply to saved jobs at their convenience.

## 1.2  Core Components

➢ User can see, save and apply to jobs.

➢ User can filter jobs.

➢ Recruiter can post, edit and delete jobs.

➢ Recruiter can see list of applicants.

## 1.3  Minimum and Maximum Software/Hardware requirements

| | |
|---|---|
| **Operating system** | ➢ Windows 10 or above |
| **Processor** | ➢ Intel i3 or higher |
| **RAM** | ➢ 4GB or higher |
| **Storage** | ➢ 128 GB or higher |
| **Framework** | ➢ Laravel 10 |
| **Programming Language** | ➢ PHP |
| **Database** | ➢ MySQL |
| **Tools** | ➢ Xampp, VS Code |

# 1.4 Advantages and Limitations of the Proposed system

### 1.4.1 Advantages:

- ➢ Scalability
- ➢ Easy for finding Jobs
- ➢ Smooth process

### 1.4.2 Limitations:

- ➢ Performance Overhead
- ➢ Dependency Management
- ➢ Updates and compatibility
- ➢ Server Requirements
- ➢ Scalability Challenges
- ➢ Security Risks

# 2. Requirement Determination & Analysis

## 2.1 Requirement Determination:

### ❖ Functional Requirements :

### Job Management:

> ➢ Ability to add, edit, and delete jobs seamlessly.
> ➢ Manage job applicants list.

### ❖ Non-Functional Requirements :

### Performance:

> ➢ Lightning-fast page load times to enhance user experience.
> ➢ Scalability to handle increased traffic during peak periods.

### Usability:

> ➢ Intuitive and user-friendly interface across various devices.
> ➢ Mobile responsiveness for seamless browsing on smartphones and tablets.

### Security:

> ➢ Ensure data encryption, especially for sensitive payment information.
> ➢ Conduct regular security audits and updates to protect user data.

### 2.1.1. Job seeker Requirements:

> ➢ User Registration and Authentication
> ➢ Job Status
> ➢ Profile modification

### 2.1.2 Recruiter Requirements:

&#10149; Job Management

&#10149; Applicants Management

## 2.2 Targeted Users:

In our website there are 2 targeted uses.

&#10149; Job Seeker
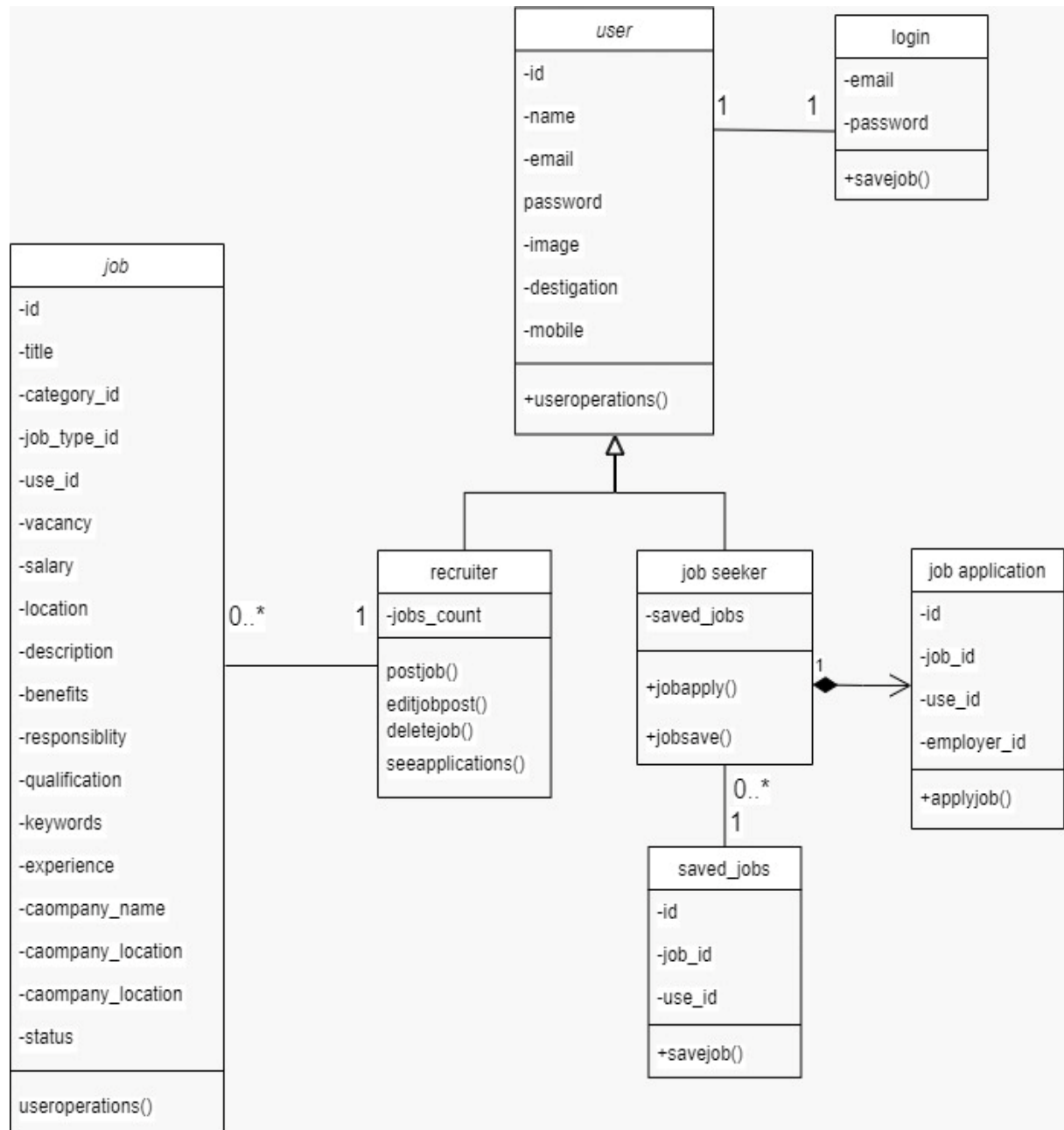
&#10149; Recruiter

# 3. System Design

## 3.1 Use Case Diagram :
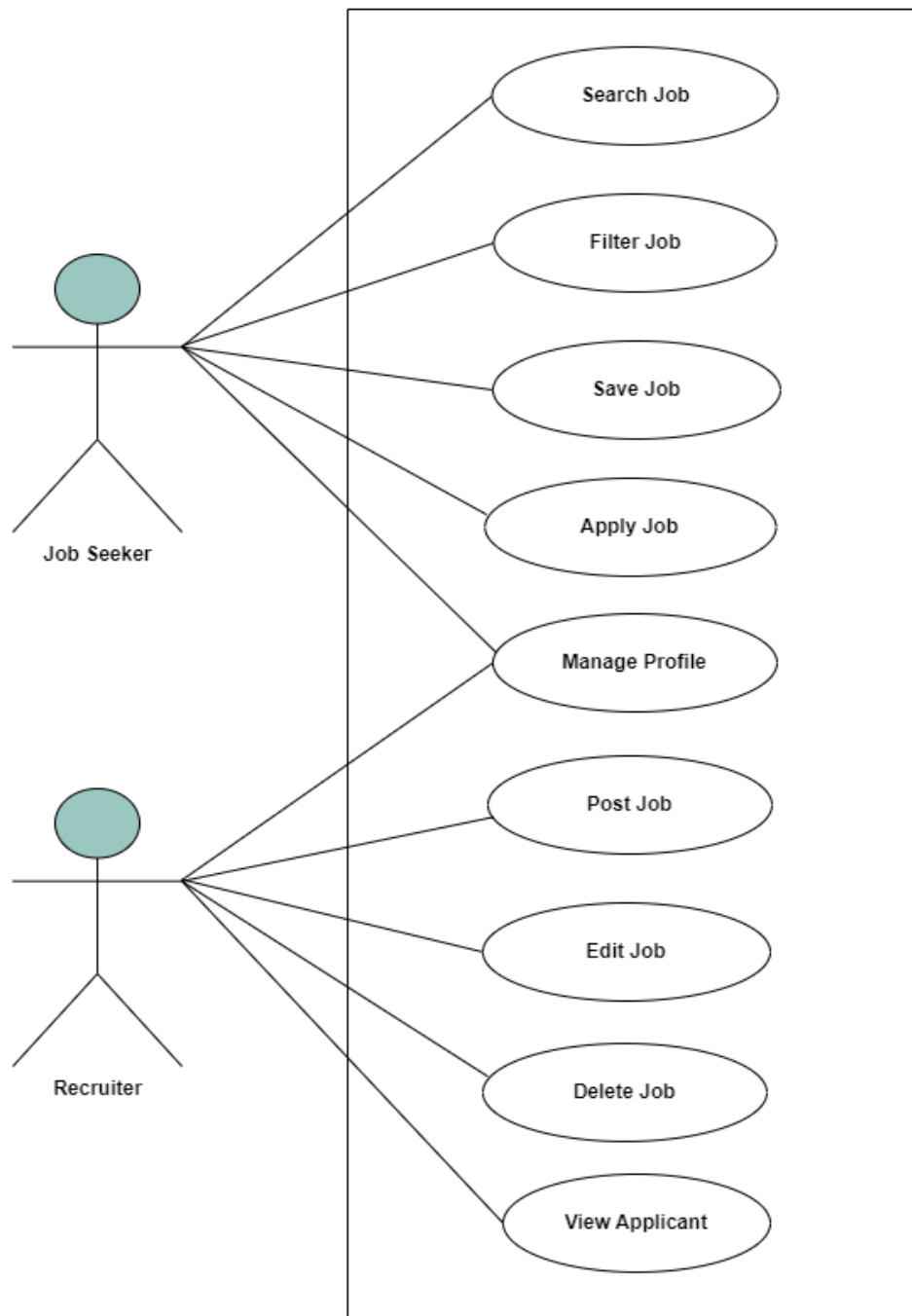


**[Fig. 3.1 Use Case Diagram for Job Seeker and Recruiter]**

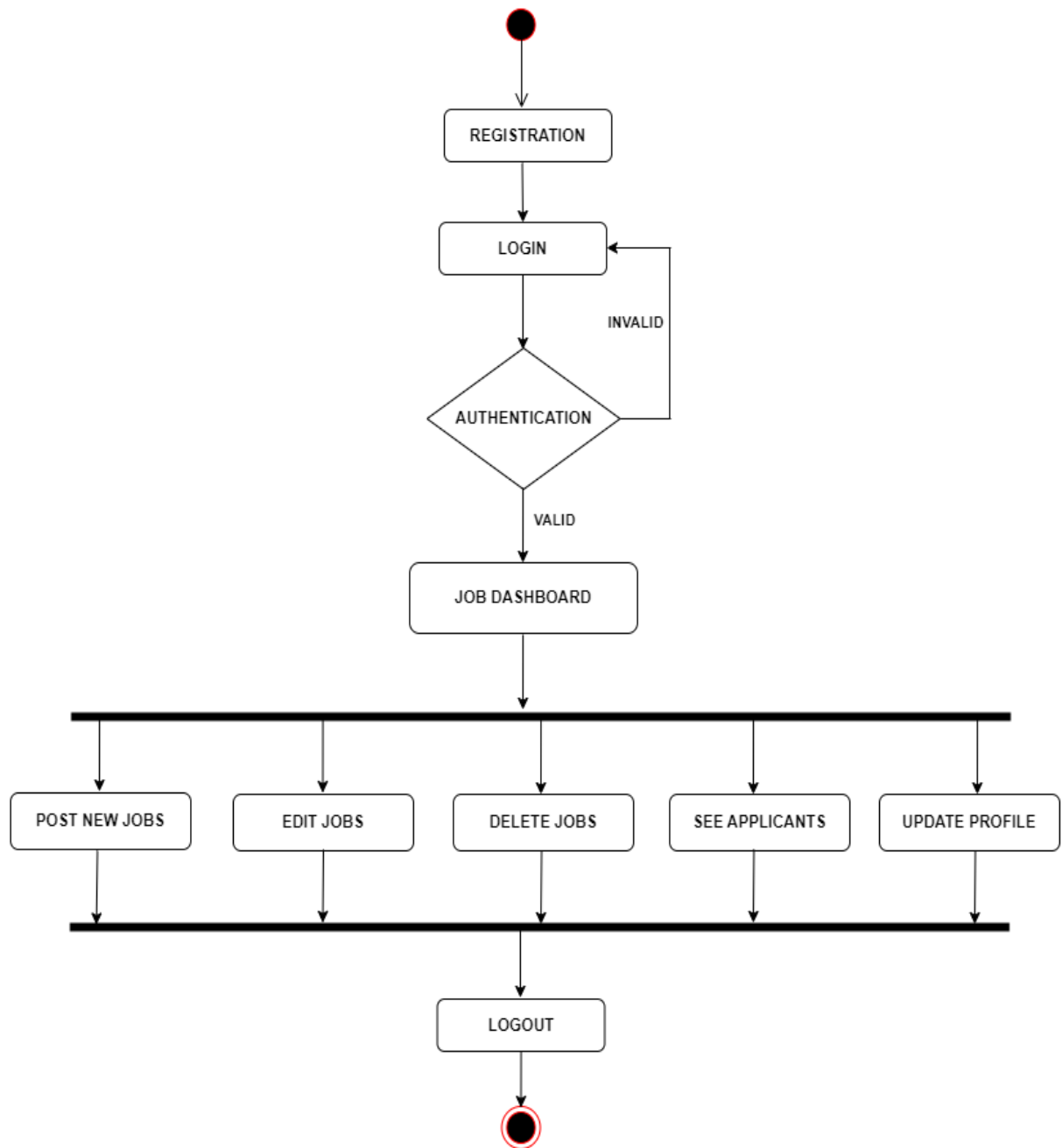## 3.2 Class Diagram :



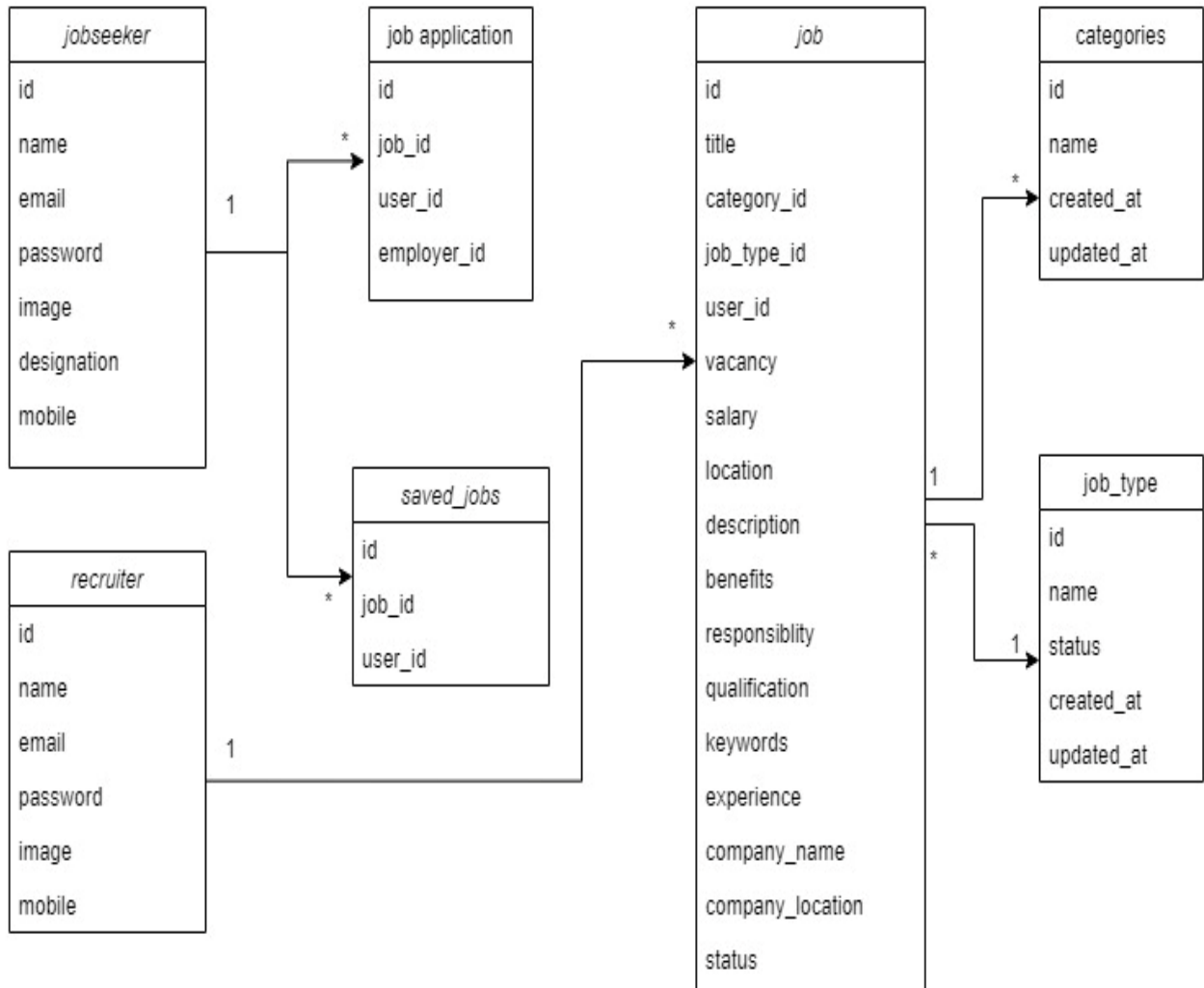**[Fig. 3.2 Class Diagram]**

## 3.3 Activity Diagram :

➢ **Job Seeker**



REGISTRATION

LOGIN

INVALID

AUTHENTICATION

VALID

HOME PAGE

| SEE JOBS | APPLY TO JOBS | FILTER JOBS | SAVE JOBS | UPDATE PROFILE |

LOGOUT
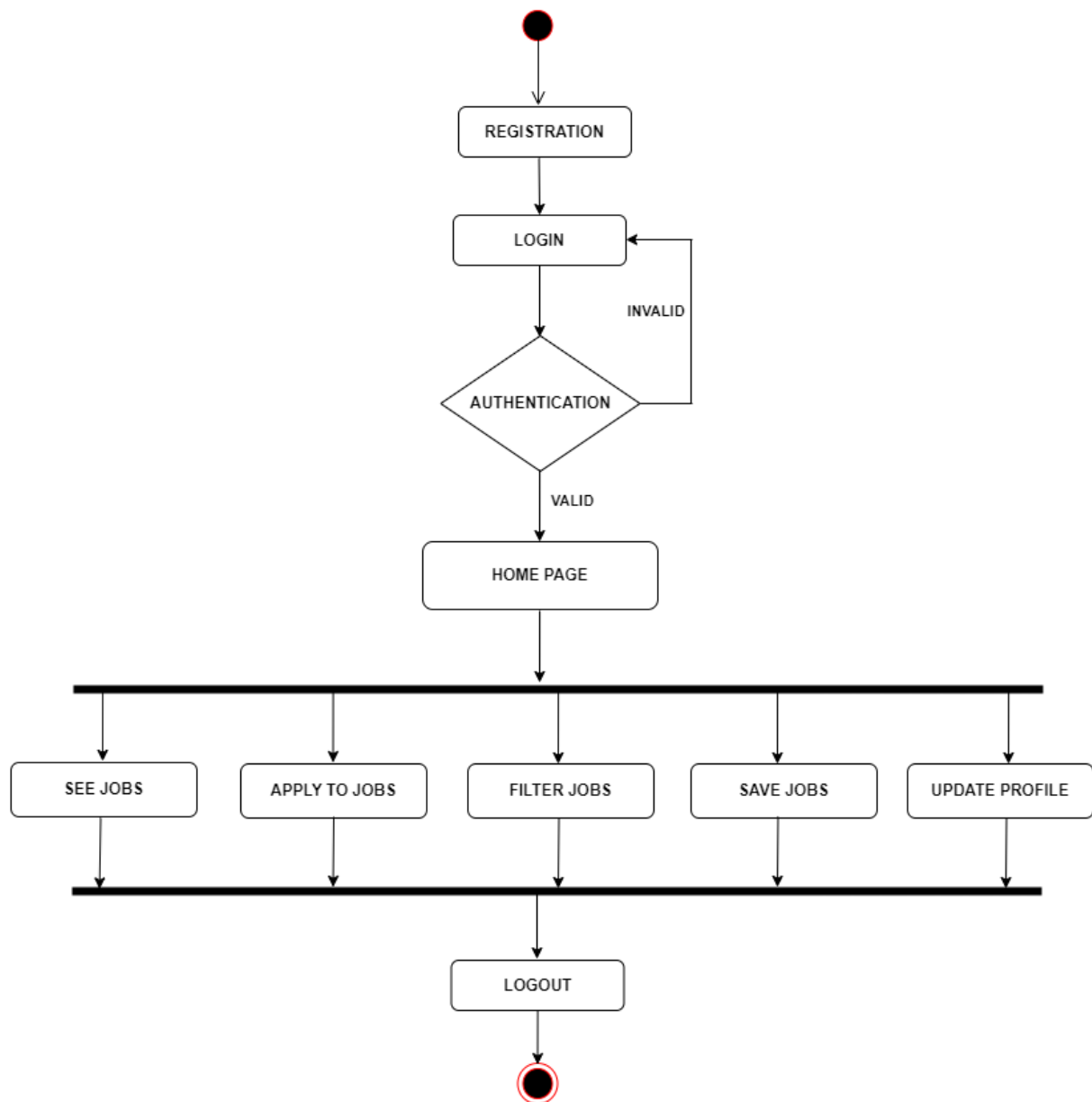
**[Fig. 3.3.1 Job Seeker Activity Diagram]**

➢ **Recruiter**



**[Fig. 3.3.2 Recruiter Activity Diagram]**

## 3.4 Database Design



**[Fig. 3.4 Database Design]**

## 3.5  Database Dictionary

➢ Table name : **user**

| NO. | FIELD NAME | DATATYPE | CONSTRAINT |
|-----|-----------|----------|------------|
| 1 | id | Int(10) | PRIMARY KEY |
| 2 | name | Varchar(50) | NOT NULL |
| 3 | email | Varchar(50) | UNIQUE |
| 4 | password | Varchar(100) | NOT NULL |
| 5 | image | Varchar(200) | NULL |
| 6 | designation | Varchar(100) | NULL |
| 7 | mobile | Varchar(50) | NULL |
| 8 | remember_token | Varchar(100) | NULL |

➢ Table name : **saved_jobs**

| NO. | FIELD NAME | DATATYPE | CONSTRAINT |
|-----|-----------|----------|------------|
| 1 | id | bigInt(20) | PRIMARY KEY |
| 2 | job_id | bigint (20) | NOT NULL |
| 3 | user_id | bigint (20) | NOT NULL |

➢ Table name : **job_types**

| NO. | FIELD NAME | DATA TYPE | CONSTRAINT |
|-----|-----------|-----------|------------|
| 1 | id | bigInt(20) | PRIMARY KEY |
| 2 | name | varchar(100) | NOT NULL |
| 3 | status | Varchar(100) | NOT NULL |

➤ Table name : **jobs**

| NO. | FIELD NAME | DATATYPE | CONSTRAINT |
|---|---|---|---|
| 1 | id | bigint(20) | PRIMARY KEY |
| 2 | title | varchar(50) | NOT NULL |
| 3 | category_id | bigint(20) | NOT NULL |
| 4 | job_type_id | bigint(20) | NOT NULL |
| 5 | user_id | bigint(20) | NOT NULL |
| 6 | vacancy | int(11) | NOT NULL |
| 7 | salary | varchar(50) | NOT NULL |
| 8 | location | varchar(200) | NOT NULL |
| 9 | description | text | NULL |
| 10 | benefits | text | NULL |
| 11 | responsibility | text | NULL |
| 12 | qualification | text | NULL |
| 13 | keywords | text | NOT NULL |
| 14 | experience | varchar(200) | NOT NULL |
| 15 | company_name | varchar(200) | NOT NULL |
| 16 | company_location | varchar(200) | NOT NULL |
| 17 | company_website | varchar(100) | NOT NULL |

➤ Table name : **categories**

| NO. | FIELD NAME | DATATYPE | CONSTRAINT |
|---|---|---|---|
| 1 | id | bigint(20) | PRIMARY KEY |
| 2 | name | varchar (100) | UNIQUE |
| 3 | status | int(11) | NOT NULL |

➤ Table name : **job_application**

| NO. | FIELD NAME | DATATYPE | CONSTRAINT |
|---|---|---|---|
| 1 | id | bigint(20) | PRIMARY KEY |
| 2 | job_id | bigint(20) | NOT NULL |
| 3 | user_id | bigint(20) | NOT NULL |
| 4 | employer_id | bigint(20) | NOT NULL |

# 4. Agile Documentation

## 4.1. Agile Project Charter

| General Project Information | |
|---|---|
| **Project Title** | **"Career Hub"** |
| **Project Developer** | **Gohil Akash V.**<br>**Jha Shubham V.**<br>**Solanki Khushal V.** |
| **Expected Start Date** | **22-Jan-2024** |
| **Expected Completion Date** | **17-May-2024** |
| **Vision** | **Simplifying and modernizing the way people apply for jobs, making hiring more convenient and effective.** |
| **Objective** | **To provide a user-friendly platform for creating and sharing job posting, enabling seamless communication and job opportunities.** |
| **Organization** | **Sarvajanik College of Engineering and Technology (SCET)** |
| **Project Size Estimate** | **Small scale project in total roles is recruiter, and Job Seeker.** |
| **Key Stack Holder** | **Web Application - LARAVEL (PHP)** |
| **Approaches** | **Strategies, methodologies, processes, tools, and Techniques the team will follow.** |

# 4.2 Agile Roadmap/Schedule

### 22 Jan 2024 – 03 Feb 2024

| Id | Task Name | 22 Jan 2024 | | | | | | 29 Jan 2024 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | T | W | T | F | S | M | T | W | T | F | S |
| 1 | Understand laravel with php | | | | | | | | | | | | |
| 2 | Database design | | | | | | | | | | | | |

### 16 Feb 2024 – 28 Feb 2024

| Id | Task Name | 16 Feb 2024 | | | | | | 23 Feb 2024 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | T | W | T | F | S | M | T | W | T | F | S |
| 3 | Landing page design | | | | | | | | | | | | |
| 4 | Development job-panel Module. | | | | | | | | | | | | |

### 13 Mar 2024 – 25 March 2024

| Id | Task Name | 13 Mar 2024 | | | | | | 20 March 2024 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | T | W | T | F | S | M | T | W | T | F | S |
| 5 | Develop job Module | | | | | | | | | | | | |
| 6 | Develop Login & Registration page | | | | | | | | | | | | |

## 29 Mar 2024 – 10 Apr 2024

| Id | Task Name | 29 Mar 2024 | | | | | | 5 Apr 2024 | | | | | |
|----|-----------|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | T | W | T | F | S | M | T | W | T | F | S |
| 7 | Design and Development job post detail page | ████████████████ | | | | | | | | | | | |
| 8 | Design save job. | | | | | | | ████████████████████ | | | | | |

## 17 Apr 2024 – 29 Apr 2024

| Id | Task Name | 17 Apr 2024 | | | | | | 24 Apr 2024 | | | | | |
|----|-----------|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | T | W | T | F | S | M | T | W | T | F | S |
| 9 | Development of job apply functionality. | ███████████████ | | | | | | | | | | | |
| 10 | Development of show applicant detail functionality. | | | | | | | █████████████████ | | | | | |

## 06 May 2024 – 17 May 2024

| Id | Task Name | 01 May 2024 | | | | | | 13 May 2024 | | | | |
|----|-----------|---|---|---|---|---|---|---|---|---|---|---|
| | | M | T | W | T | F | S | M | T | W | T | F |
| 11 | Developed user profile update functionality | ████████████████ | | | | | | | | | | |
| 12 | Email integration | | | | | | | ████████████████ | | | | |

## 4.3 Agile Project Plan

| Task Name | Start Date | End Date | Days |
|---|---|---|---|
| **Sprint 1** | 22-01-2024 | 27-02-2024 | **6** |
| Understand LARAVEL with PHP Fundamentals. | | | |
| **Sprint 2** | 30-01-2024 | 04-02-2024 | **6** |
| Database Designing. | | | |
| **Sprint 3** | 07-02-2024 | 12-02-2024 | **6** |
| Made landing page | | | |
| **Sprint 4** | 17-02-2024 | 22-02-2024 | **6** |
| Development job seeker Module. | | | |
| **Sprint 5** | 28-02-2024 | 04-03-2024 | **6** |
| Development recruiter Module. | | | |
| **Sprint 6** | 10-03-2024 | 15-03-2024 | **6** |
| Development Login & Registration  page. | | | |
| **Sprint 7** | 18-03-2024 | 23-03-2024 | **6** |
| Design and Development Job filter page. | | | |
| **Sprint 8** | 23-03-2024 | 28-03-2024 | **6** |
| Design Home Page of Website | | | |
| **Sprint 9** | 28-03-2024 | 03-04-2024 | **6** |
| Develop Job apply and mail send module. | | | |
| **Sprint 10** | 13-04-2024 | 18-04-2024 | **6** |
| Development User Profile Module. | | | |
| **Sprint 11** | 12-05-2024 | 17-05-2024 | **6** |
| Final Documentation & Presentation. | | | |

## 4.4 Agile User Story

| Story Point | Story |
|---|---|
| 1. Recruiter Rights | - Recruiter can add, update, delete and view job posts.<br>- Recruiter can see applicant details on their job posts.<br>- Recruiter can login, log out from the profile |
| 2. User Rights | - User can Register, login and manage their profile.<br>- User can apply to the job posts.<br>- Users can save job posts. |

## 4.5 Agile Release Plan

| Task Name | Start Date | End Date | Days | Status |
|---|---|---|---|---|
| Sprint 1 | 22-01-2024 | 27-01-2024 | 6 | Released |
| Sprint 2 | 30-01-2024 | 04-02-2024 | 6 | Released |
| Sprint 3 | 07-02-2024 | 12-02-2024 | 6 | Released |
| Sprint 4 | 17-02-2024 | 22-02-2024 | 6 | Released |
| Sprint 5 | 23-03-2024 | 28-02-2024 | 6 | Released |
| Sprint 6 | 29-02-2024 | 05-03-2024 | 6 | Released |
| Sprint 7 | 06-03-2024 | 11-03-2024 | 6 | Released |
| Sprint 8 | 12-03-2024 | 17-03-2024 | 6 | Released |
| Sprint 9 | 18-03-2024 | 23-03-2024 | 6 | Released |
| Sprint 10 | 23-03-2024 | 28-03-2024 | 6 | Released |
| Sprint 11 | 28-03-2024 | 03-04-2024 | 6 | Released |
| Sprint 12 | 13-04-2024 | 18-04-2024 | 6 | Released |
| Sprint 13 | 12-05-2024 | 17-05-2024 | 6 | Released |

## 4.6 Agile Sprint Backlog

| Task Name | Start Date | End Date | Days |
|---|---|---|---|
| Project Documentation | 01-05-2024 | 05-05-2024 | 5 |
| Project Updates | 06-05-2024 | 13-05-2024 | 8 |
| Reports for Project | 14-05-2024 | 17-05-2024 | 4 |

## 4.7 Agile Test Plan

| Date | Test | Description | Expected Result | Actual Result | Passed | Tested By | Tester Comments |
|---|---|---|---|---|---|---|---|
| 15-02-2024 | 1 | Simple CRUD using Laravel with PHP | Should manage Crud | As Expected | Passed | Shubham Jha | No Issues |
| 22-02-2024 | 2 | User login | Login success redirects user to the profile page. | As Expected | Passed | Khushal Solanki | No Issues |
| 28-02-2024 | 3 | User Profile | Should Manage User profile | As Expected | Passed | Akash Gohil | No Issues |
| 07-03-2024 | 4 | Post a job | Should post a job. | As Expected | Passed | Shubham Jha | No Issues |
| 15-03-2024 | 5 | Save job | Should save a job post. | As Expected | Passed | Khushal Solanki | No Issues |
| 24-03-2024 | 6 | job Dashboard | Should list job posts. | As Expected | Passed | Akash Gohil | No Issues |
| 07-04-2024 | 7 | Job description page | Should show job description details and apply button | As Expected | Passed | Shubham Jha | No Issues |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 25-04-2024 | 8 | User Logout | User will be able to logout | As Expected | Passed | Akash Gohil | No Issues |
| 02-05-2024 | 9 | Change profile picture | User can change profile picture from profile page | As Expected | Passed | Khushal Solanki | No Issues |
| 07-05-2024 | 10 | Job Mail | Recruiter will receive mail when anyone apply for job | As Expected | Passed | Shubham Jha | No Issues |

# 5. Screenshots
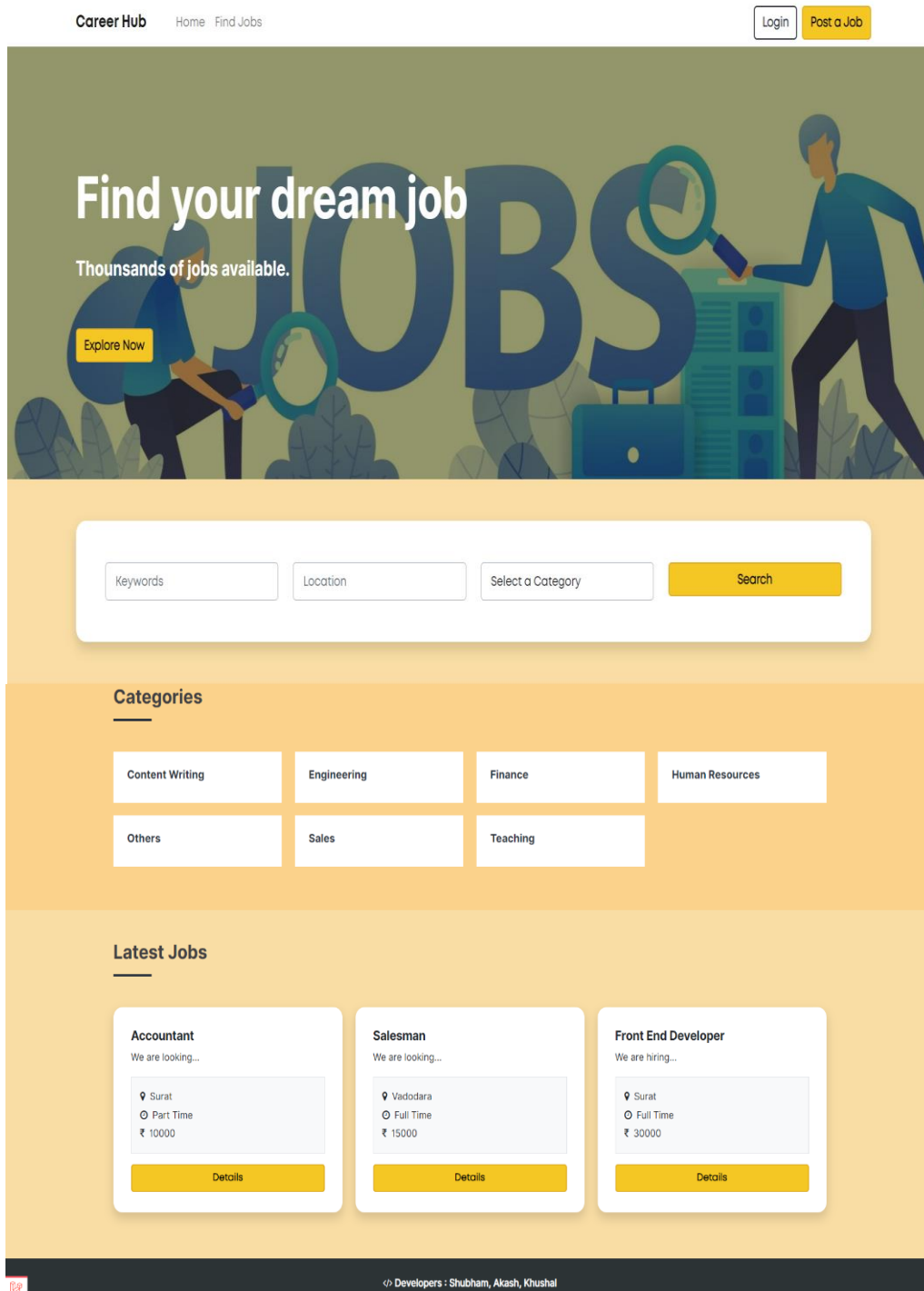


**[Fig. 5.1 Home page]**

➢ **A landing page of our careerhub job portal for job seeker and recruiter.**
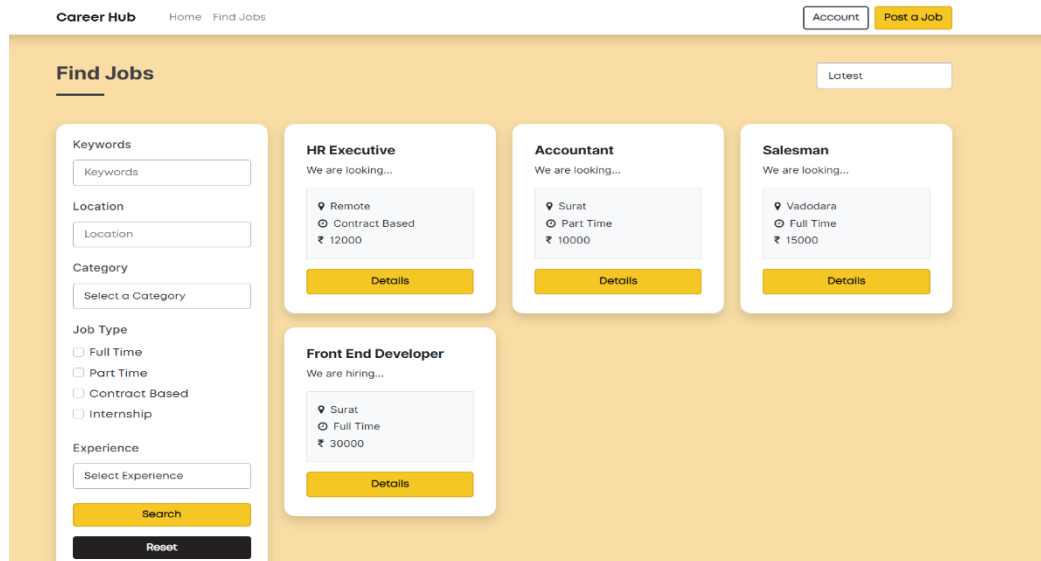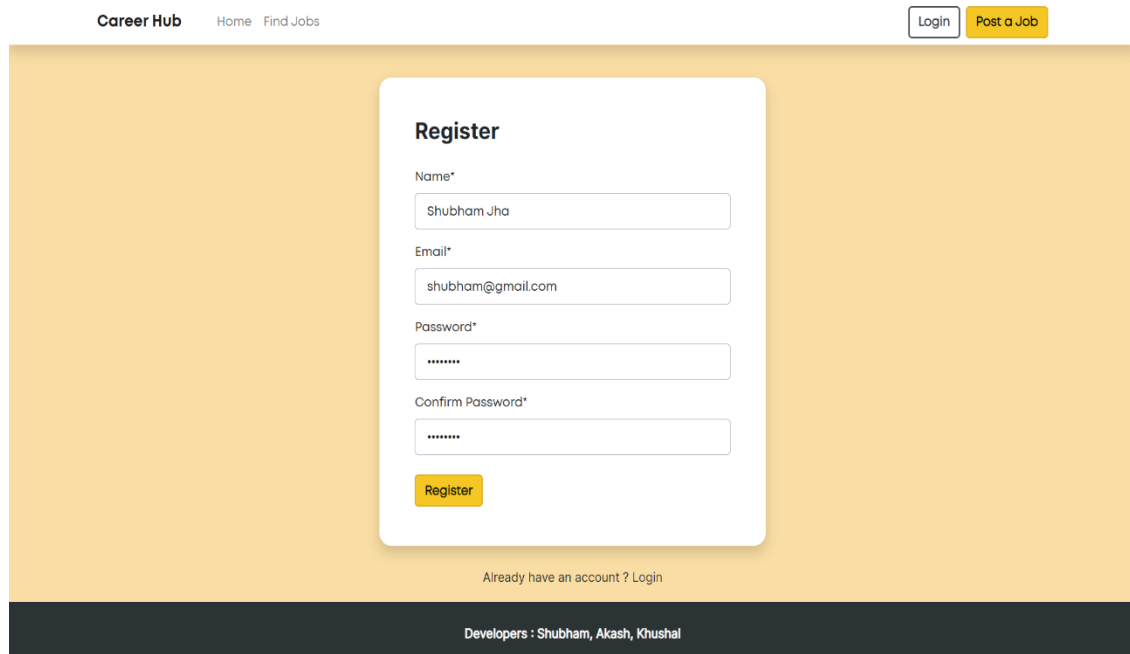
**[Fig. 5.2 Job search page]**

➢ **A "find job" page where user can search for specific job with filter options.**
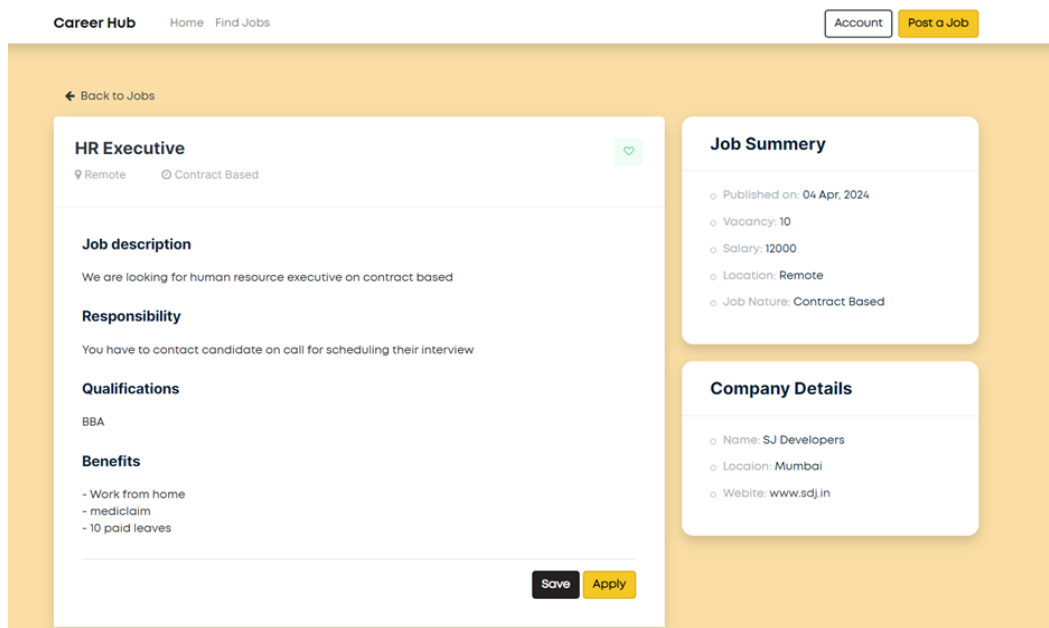


**[Fig. 5.3 Job details page]**

➢ **A job details page where job seeker gets details about the job.**

**[Fig. 5.4 Registration page]**

➢ **A registration page for job seeker and recruiter .**



**[Fig. 5.5 Login page]**

➢ **A login page for job seeker and recruiter.**

**[Fig. 5.6 Post new job]**

➢ **A page where recruiter can post new jobs .**

**[Fig. 5.7 Post new job]**
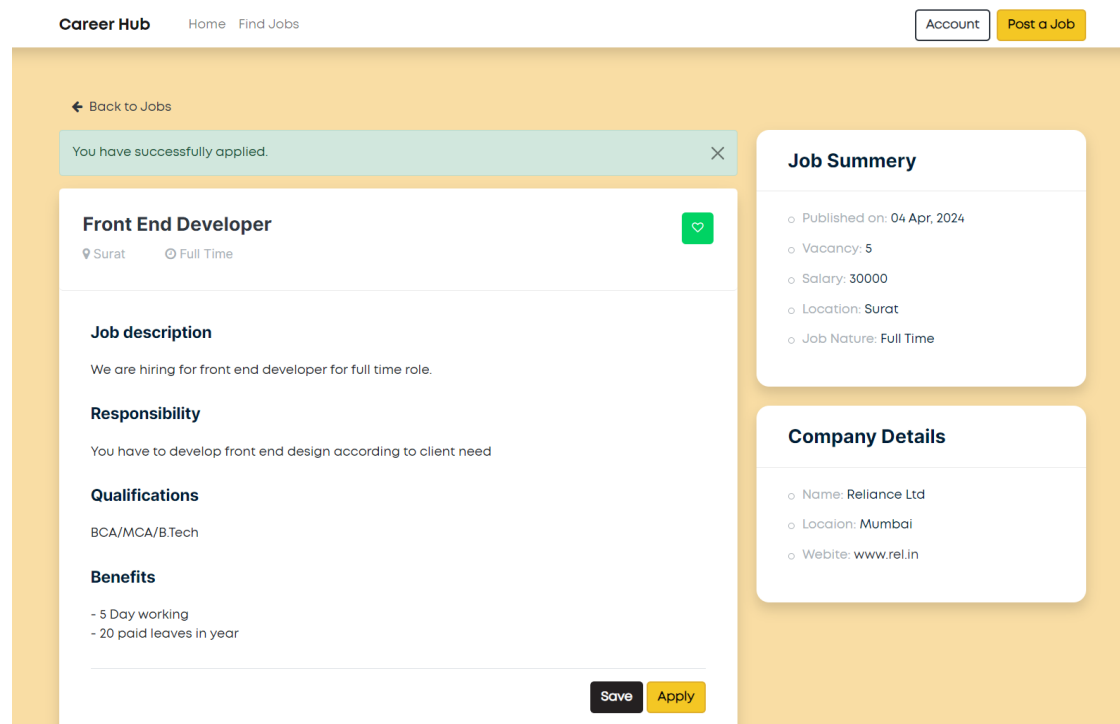
➢ **A page where recruiter can post new jobs .**



**[Fig. 5.8 New job posted]**

➢ **A page where recruiter will gets all the jobs posted by them.**
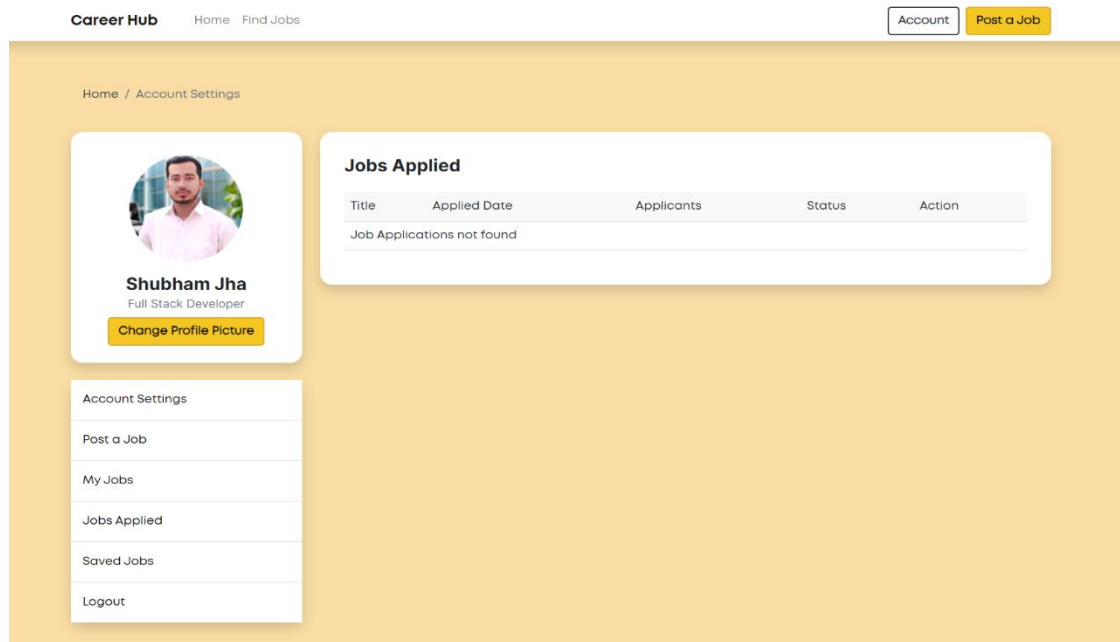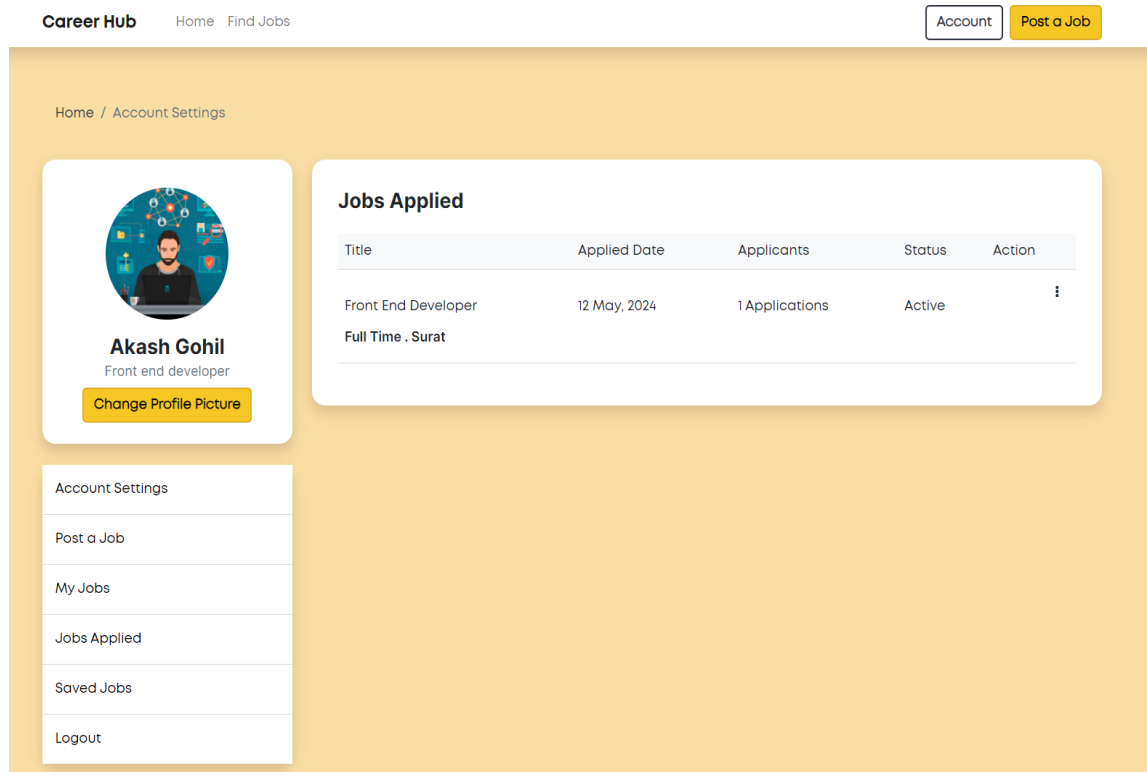
## [Fig. 5.9 Applied job list]

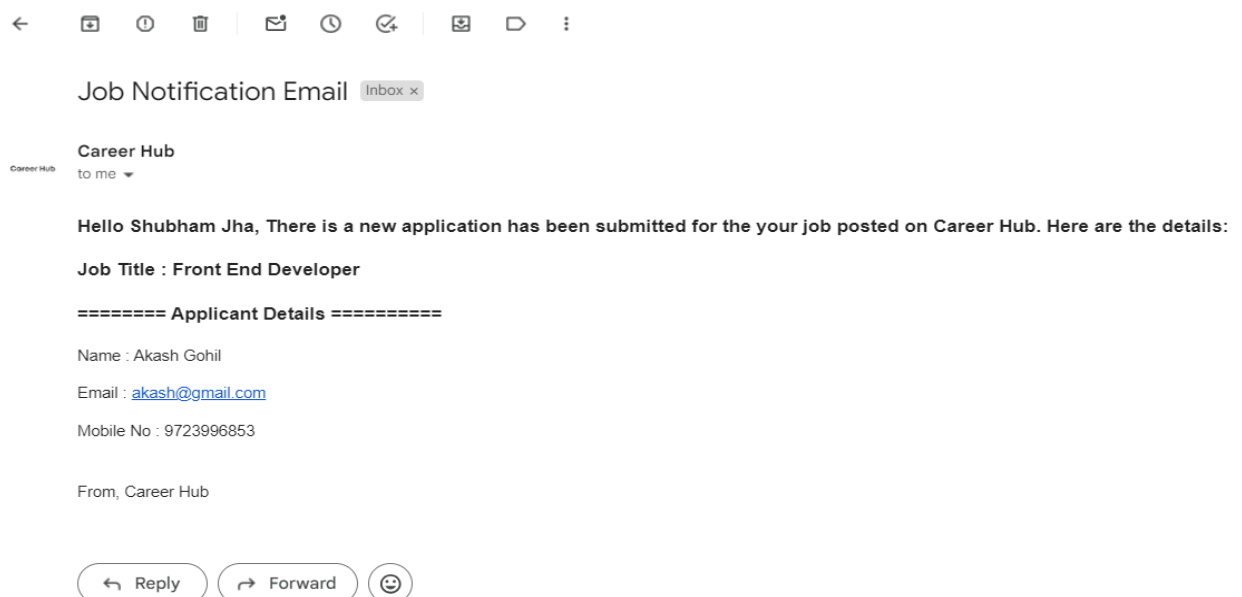➢ **A page where job seeker gets list of jobs which they have applied .**



## [Fig. 5.10 Apply to job]
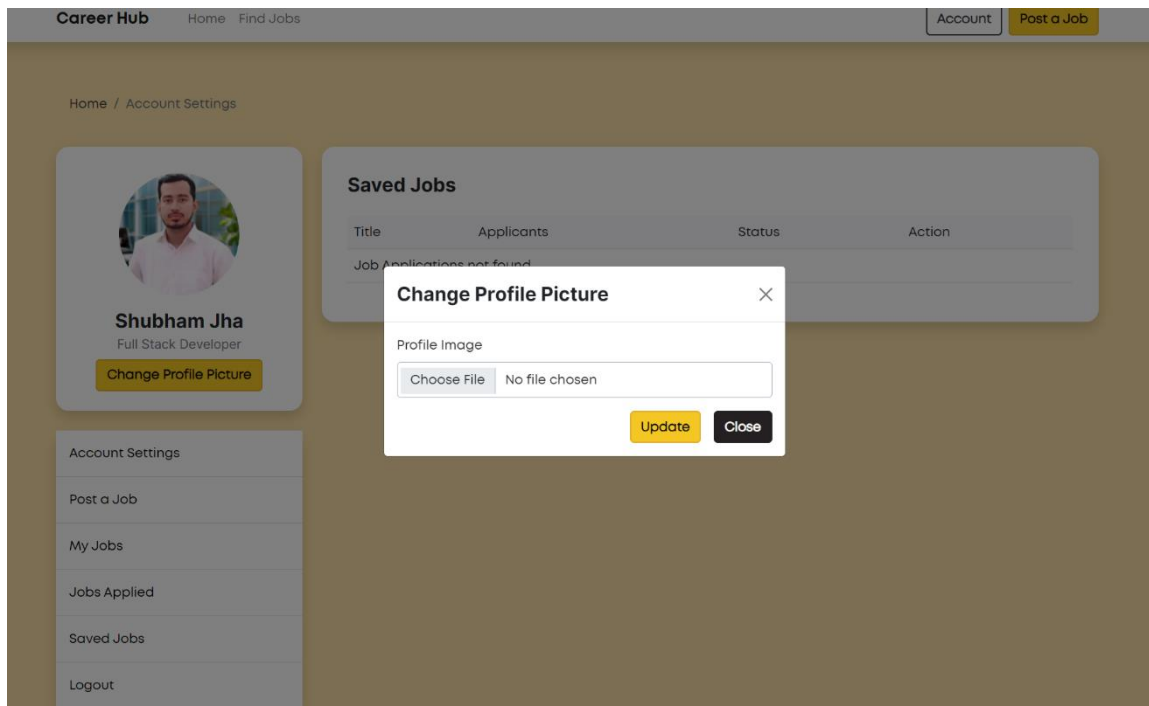
➢ **A page where job seeker can apply for new job.**

**[Fig. 5.11 Applied job list]**

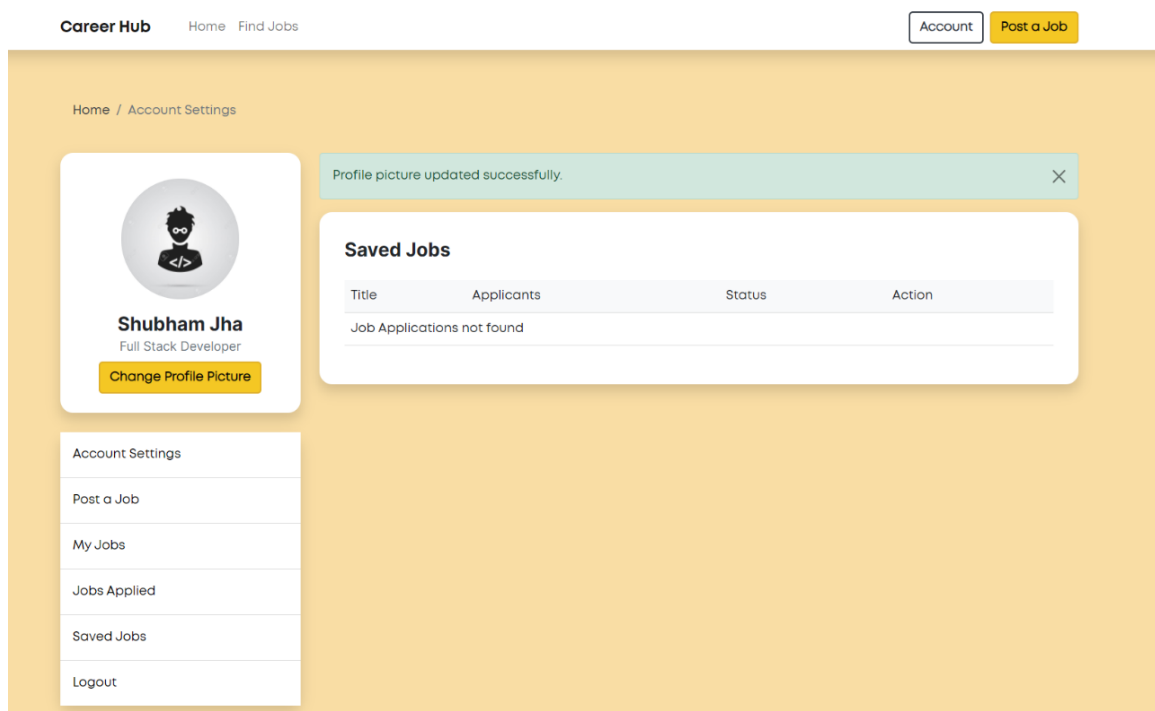➢ **A page where job seeker gets list of jobs which they have applied.**



**[Fig. 5.12 Send email to recruiter]**

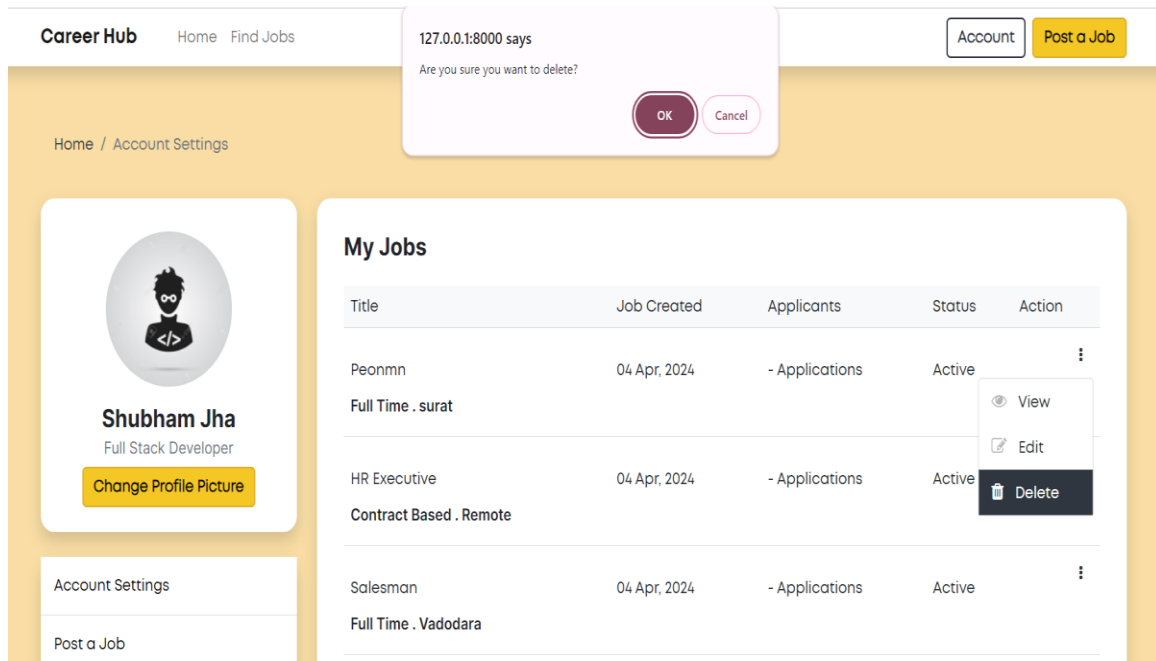➢ **When anyone apply for job recruiter will receive an email .**

[Fig. 5.13 Change profile picture]

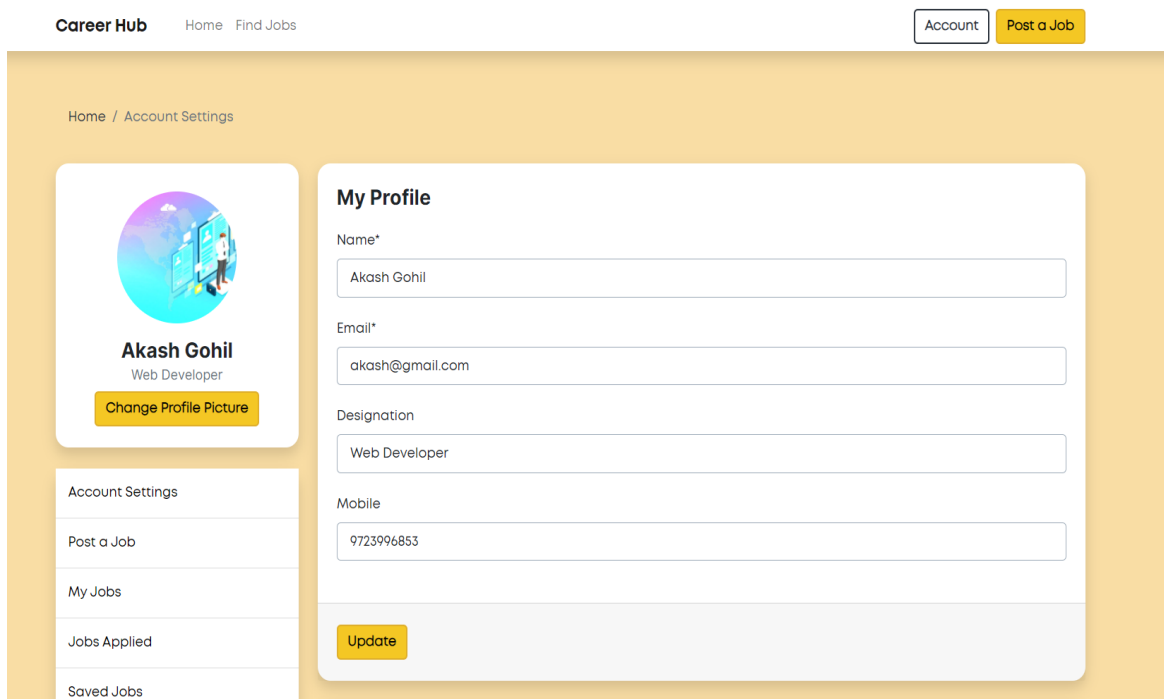➢ A page where user can change their profile picture.



[Fig. 5.14 Profile picture changed]

➢ profile picture updated successfully .

**[Fig. 5.15 Delete job application]**

➢ **A page where recruiter can delete job posted by them.**



**[Fig. 5.16 Update profile]**

➢ **Here user can update their profile details .**

# 6. Proposed Enhancements

We propose an enhancement for Career Hub, our comprehensive job-seeking and recruitment platform, aimed at revolutionizing career networking and personal branding. Introducing an intuitive and customizable interface, job seekers and recruiters alike can now personalize their profiles with unique details, including skills, experiences, and preferences to showcase their professional identity. Additionally, we will incorporate interactive features such as direct messaging, application tracking, and profile updating, enabling seamless communication and interaction within the Career Hub community. To maximize opportunities, we will introduce a built-in job recommendation system, leveraging AI algorithms to match job seekers with relevant job postings, and recruiters with potential candidates. With these enhancements, Career Hub will empower individuals to navigate and thrive in the competitive landscape of the job market, fostering meaningful connections and facilitating career growth in the digital age.

# 7. Conclusion

In conclusion, CareerHub represents a significant advancement in the realm of career management and professional networking. It offers a modern and efficient platform for job seekers and recruiters to connect, explore opportunities, and build meaningful professional relationships. With features such as personalized profiles, job searching and application functionalities, and seamless communication tools, CareerHub streamlines the job-seeking process and facilitates efficient recruitment practices. By leveraging technology to enhance accessibility and user experience, CareerHub empowers individuals and businesses to navigate the dynamic landscape of the job market effectively. In today's fast-paced and technology-driven world, CareerHub emerges as a vital tool for career growth and success, enabling users to stay connected, informed, and empowered in the digital age.

# 8. Bibliography

➢ During the development of this website, we have taken the reference from various books,video tutorials and journals, which we would like to mention in this section.

**Videos:**
➢ https://www.youtube.com/watch?v=1oGrDyFp9X8

➢ https://www.youtube.com/watch?v=D8CCivAJBLk&t=271s

**Websites:**

➢ https://laravel.com/docs/10.x
➢ https://www.w3schools.in/laravel/database-configuration
➢ https://www.w3schools.in/laravel/sending-emails
➢ https://www.tutorialspoint.com/laravel/laravel_middleware.htm