A Project Report On…

Job portal management system

Developed By…

Kuldip Kanzariya

Submitted To…

Geetanjali Collage of Computer Science & Commerce

Saurashtra University

Rajkot

2024-2025

Guide Name…

PROF. Pranav Trivedi

<u>**ACKNOWLEDGEMENTS**</u>

While the report for my project work is ready, I feel it is my bounden duty to offer my sincere thanks to all those who have helped and guided me in this regard.

Action is very necessary to convert our dreams into reality. My dream was to develop this project. To make a successful and useful project, one needs help, understanding, and coordination from all those who are directly or indirectly involved in this.

Many people have contributed to making this project a reality. I would like to express my gratitude to our **Head of Department**, Prof. Brijesh Shah, for his guidance throughout the project.

While submitting the project report, it is my duty to offer my sincere thanks to those who have assisted me in preparing this project report. I would like to express my gratitude to Kishor Singh Vala for his guidance throughout the project. He helped me in the selection of this topic and guided me to the final completion of my project by reviewing the manuscript of the chapters and providing valuable suggestions.

Before I describe my project briefly, I would like to add a few heartfelt words for those people who have given their time and knowledge to developing this project. Last but not least, I am thankful to all my college faculties and friends for their kind cooperation.

A Special thanks from:

Kuldip Kanzariya
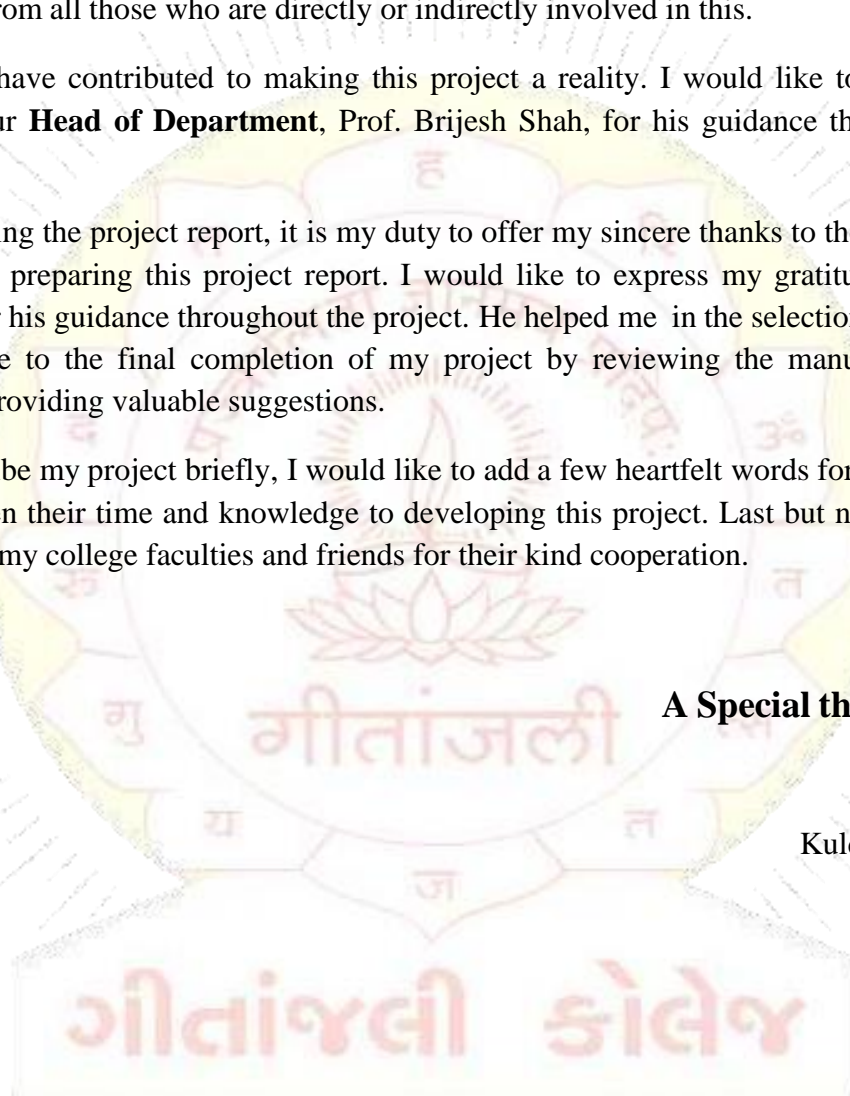
PREFACE

In the 5th semester of my Bscit program, we are required to prepare a project as a separate subject. This project involves thorough study and analysis of a particular subject, followed by the preparation of a comprehensive project report.

There is a significant difference between theoretical and practical knowledge, and understanding this distinction is crucial for the effective use of knowledge. The preparation of a project report has been a new and interesting experience for me. I must admit that it has been challenging from certain perspectives. Through this process, we gain insights into the theoretical concepts of the subject matter and their practical application. A project report also plays a vital role in building confidence in our lives.

It was felt that it is important and instructive not only to learn the principles of software engineering but also to apply them to a software development project. This approach allows us to clearly observe all aspects of development within a project.

By preparing this report, I have come to understand the importance of practical training in the field of education. It is easier to work with a computerized system than a manual one. Thisnot only saves time, effort, and space but also enhances efficiency by generating interest.

Our project pertains to "job portal management system." The project report contains information and details related to it.

This project is part of my Fifth semester of Bscit course curriculum. Geetanjali Collage of Computer Science & Commerce–Rajkot.

I have decided to develop a web application for my Bscit 5th semester using java technology . Our college has held a prominent position as one of the best colleges in Saurashtra University for a considerable duration.

Index

Job Portal

<u>ABSTRACT</u>

Description: Job Portal Management System using JSP and Servlets

The Job Portal Management System is a web-based application designed to simplify job Searching and recruitment processes. Developed using JavaServer Pages (JSP) and Servlets, this system offers a dynamic and interactive platform for job seekers and employers to connect efficiently.

Technologies Used:

1. **JavaServer Pages (JSP):**
   JSP is used to create dynamic web pages that present information to users.
   It allows embedding Java code in HTML pages, facilitating the generation of dynamic
   content such as job listings, user profiles, and application statuses.

2. **Servlets:**
   Servlets are used to handle HTTP requests and responses, process user inputs,
   manage session data, and interact with business logic. They act as
   controllers that bridge the presentation layer (JSP pages) with the business logic and data access layers.

Conclusion:

The Job Portal Management System, developed using JSP and Servlets, offers a robust and interactive platform for job searching and recruitment. The use of JSP for dynamic content presentation and Servlets for request handling and business logic ensures a scalable and maintainable solution for both job seekers and employers.

Job Portal

PROJECT SUMMERY

Project Summary: Job Portal Management System

Objective: To develop a comprehensive Job Portal Management System that connects job seekers with employers, streamlining the hiring process and improving job search efficiency. The system aims to provide an intuitive platform for managing job listings, applications, and profiles, while offering advanced features for both employers and job seekers.

➢ **Features:-**

Admin Dashboard

The Job Board Admin dashboard brings everything to one spot. This dashboard is designed to expedite the bird view on your Job Board business activities, benchmarkindications, notifications, and user's activities on Job Portal AdministrativePanel. However, the below business vital functionalities are must to have

to make your Job Board with easy of doing business:

Apply on Job

Jobseeker can be long way engaged for being able to apply while searching the jobs and interact direct from the listing of their dream job. All recruitment software features handle quick job application procedure, with the more advanced functionality that allows for the real time assessment and testing tool, questionnaire to be answered before applying, so jobseeker can be rapidly evaluated before taking application.

- o Simple Application Form
- o Job Requisition
- o Job Approval

PROJECT GOAL

By achieving these goals, the Job Portal Management System aims to provide a valuable tool for job seekers and employers, improving the overall efficiency and effectiveness of the job search

PROJECT PROFILE

Developed At   : Geetanjali College of Computer Science & Commerce.

Developed By   : Kuldip Kanzariya.

Division   : BSCIT Semester 5th

Project Name   : job Portal

Main Pages   : View job , Applyjob_list, About Us, Contact Us, Login

Web Browser   : Google Chrome

Operating System   : Windows 11

Editor   : Eclipse Ide

Guided By   : Prof Pranav Trivedi

SYSTEM REQUIREMENTS

➤ Software

- o Any windows operating system windows 7 to windows 11
- o Web Browser (Google Chrome, Internet Explorer, etc…)
- o Front-End -> Html ,Css,JavaScript
- o Back-End -> Java
- o Database -> Mysql

➤ Hardware

- o Processor : Intel core i3 and after all
- o RAM 2 GB or Higher
- o HDD with 256GB or Higher
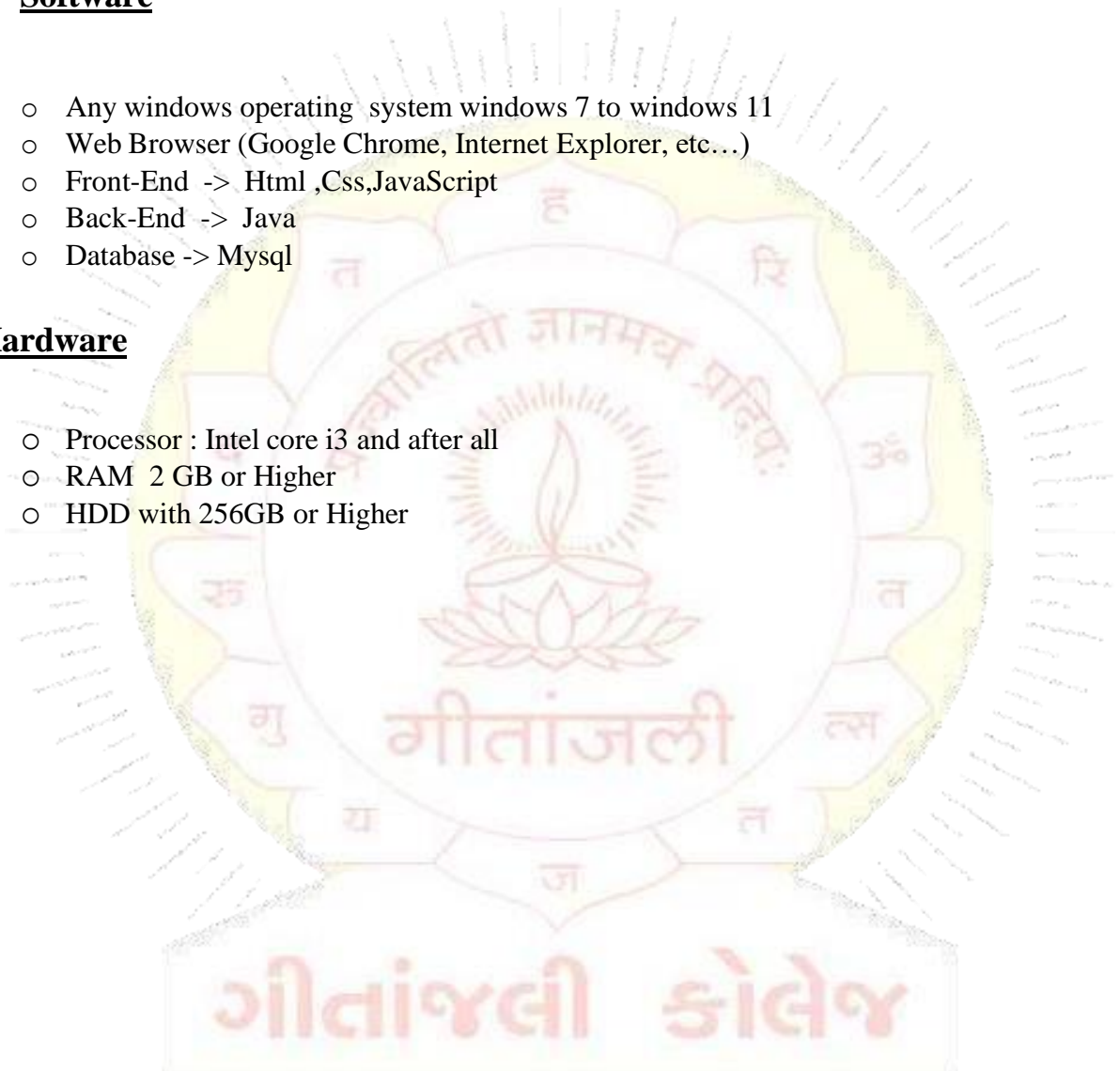
TECHNOLOGY REQUIREMENT

➢ Front-End:

HTML:

provides the basic structure and content of web pages.

CSS:

handles the presentation and layout, ensuring that web pages look appealing and are well-designed.

JavaScript:

adds interactivity and dynamic features, making web pages functional and responsive to user actions.

Together, these technologies form the foundation of web development, enabling the creation of modern, interactive, and visually engaging websites and web applications.

➢ Back-End:

Java:

Java is a widely-used, high-level programming language known for its portability, scalability, and robustness. It is a popular choice for backend development due to its strong performance, extensive libraries, and mature ecosystem.

➢ Database:

MySQL is an open-source relational database management system known for its reliability, flexibility, and ease of use. It is widely used for managing and organizing data in various applications, from small projects to large-scale enterprise systems.

TEST CASE

1. User Registration and Login

Test Case 1.1: User Registration

- **Objective:** Verify that a new user can register successfully.
- **Steps:**
  1. Navigate to the registration page.
  2. Enter valid user details (name, email, password, etc.).
  3. Click the "Register" button.
- **Expected Result:** The user should receive a confirmation email, and they should be redirected to the login page.

Test Case 1.2: User Login

- **Objective:** Verify that a registered user can log in with correct credentials.
- **Steps:**
  1. Navigate to the login page.
  2. Enter valid email and password.
  3. Click the "Login" button.
- **Expected Result:** The user should be logged in and redirected to the dashboard or home page.

Test Case 1.3: Incorrect Login Credentials

- **Objective:** Verify that the system handles incorrect login credentials correctly.
- **Steps:**
  1. Navigate to the login page.
  2. Enter an incorrect email or password.
  3. Click the "Login" button.
- **Expected Result:** The system should display an error message indicating invalid credentials.

DATA DICTIONARY

- ➢ User :

```
+-----------+------------+-------------------------+----------------------------+
| Field     | Data Type  | Description             | Constraints                |
+-----------+------------+-------------------------+----------------------------+
| id        | INT        | Unique Identifier       | Primary Key, Auto Increment |
| username  | VARCHAR(50)| User's Username         | Unique, Not Null           |
| email     | VARCHAR(100)| User's Email Address  | Unique, Not Null           |
| password  | VARCHAR(255)| User's Password       | Not Null                   |
+-----------+------------+-------------------------+----------------------------+
```

- ➢ Admin:

```
+-----------+------------+--------------------------+----------------------------+
| Field     | Data Type  | Description              | Constraints                |
+-----------+------------+--------------------------+----------------------------+
| id        | INT        | Unique Identifier        | Primary Key, Auto Increment |
| name      | VARCHAR(100)| Admin's Name           | Not Null                   |
| email     | VARCHAR(100)| Admin's Email Address  | Unique, Not Null           |
| password  | VARCHAR(255)| Admin's Password       | Not Null                   |
+-----------+------------+--------------------------+----------------------------+
```

Job Portal

> Jobs:

```
+--------------+--------------+-------------------------+------------------------+
| Field        | Data Type    | Description             | Constraints            |
+--------------+--------------+-------------------------+------------------------+
| id           | INT          | Unique Identifier       | Primary Key, Auto Increment |
| cname        | VARCHAR(100) | Company Name            | Not Null               |
| categoryname | VARCHAR(50)  | Job Category            | Not Null               |
| description  | TEXT         | Job Description         | Not Null               |
| jobtitle     | VARCHAR(100) | Job Title               | Not Null               |
| location     | VARCHAR(100) | Job Location            | Not Null               |
| experience   | VARCHAR(50)  | Required Experience     | Not Null               |
| salary       | DECIMAL(10,2)| Salary Offer            | Not Null               |
| status       | VARCHAR(50)  | Job Status              | Not Null               |
| addedtime    | DATETIME     | Job Posting Time        | Not Null               |
+--------------+--------------+-------------------------+------------------------+
```

> Contact

```
+--------------+--------------+-------------------------+----------------------+
| Field        | Data Type    | Description             | Constraints          |
+--------------+--------------+-------------------------+----------------------+
| id           | INT          | Unique Identifier       | Primary Key, Auto Increment |
| name         | VARCHAR(100) | Contact's Name          | Not Null             |
| email        | VARCHAR(100) | Contact's Email Address | Unique, Not Null     |
| contactnumber| VARCHAR(15)  | Contact's Phone Number  | Not Null             |
+--------------+--------------+-------------------------+----------------------+
```

Job Portal

➢ Company

```
+---------------+---------------+-------------------------+---------------------------+
| Field         | Data Type     | Description             | Constraints               |
+---------------+---------------+-------------------------+---------------------------+
| company_id    | INT           | Unique Identifier       | Primary Key, Auto Increment |
| company_name  | VARCHAR(100)  | Company Name            | Not Null                  |
| email         | VARCHAR(100)  | Company Email Address   | Unique, Not Null          |
| password      | VARCHAR(255)  | Company Password        | Not Null                  |
| location      | VARCHAR(100)  | Company Location        | Not Null                  |
+---------------+---------------+-------------------------+---------------------------+
```

➢ Applyjob:

```
+--------------+--------------+------------------------+-----------------------+
| Field        | Data Type    | Description            | Constraints           |
+--------------+--------------+------------------------+-----------------------+
| id           | INT          | Unique Identifier      | Primary Key, Auto Increment |
| jobid        | INT          | Job Identifier         | Foreign Key (Reference to Jobs
| companyname  | VARCHAR(100) | Company Name           | Not Null              |
| jobtitle     | VARCHAR(100) | Job Title              | Not Null              |
| username     | VARCHAR(100) | Applicant's Username   | Not Null              |
| email        | VARCHAR(100) | Applicant's Email      | Not Null, Unique      |
| mobilenumber | VARCHAR(15)  | Applicant's Mobile Number | Not Null           |
| resume       | TEXT         | Link to Applicant's Resume | Not Null          |
| status       | VARCHAR(50)  | Application Status     | Not Null              |
+--------------+--------------+------------------------+-----------------------+
```

Job Portal

SYSTEM DESIGN TOOLS

DFD (Data Flow Diagram):

DFD 0 Level Diagram
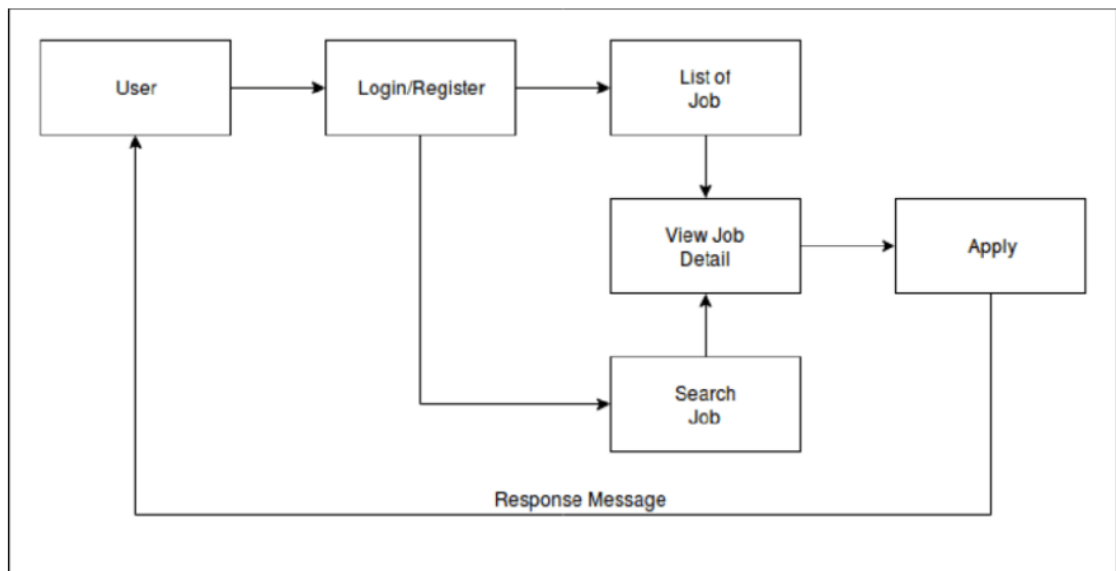
Job Portal

DFD 1 Level Diagram
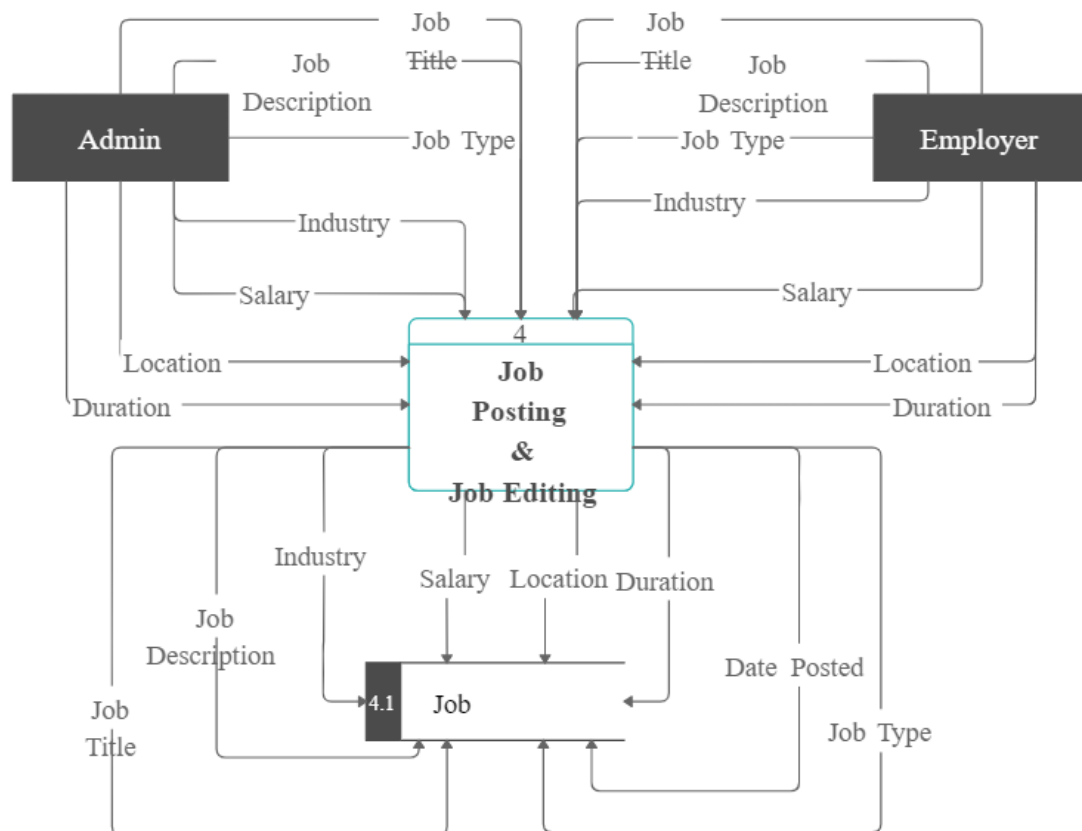
ERD (Entity Relation Diagram): -
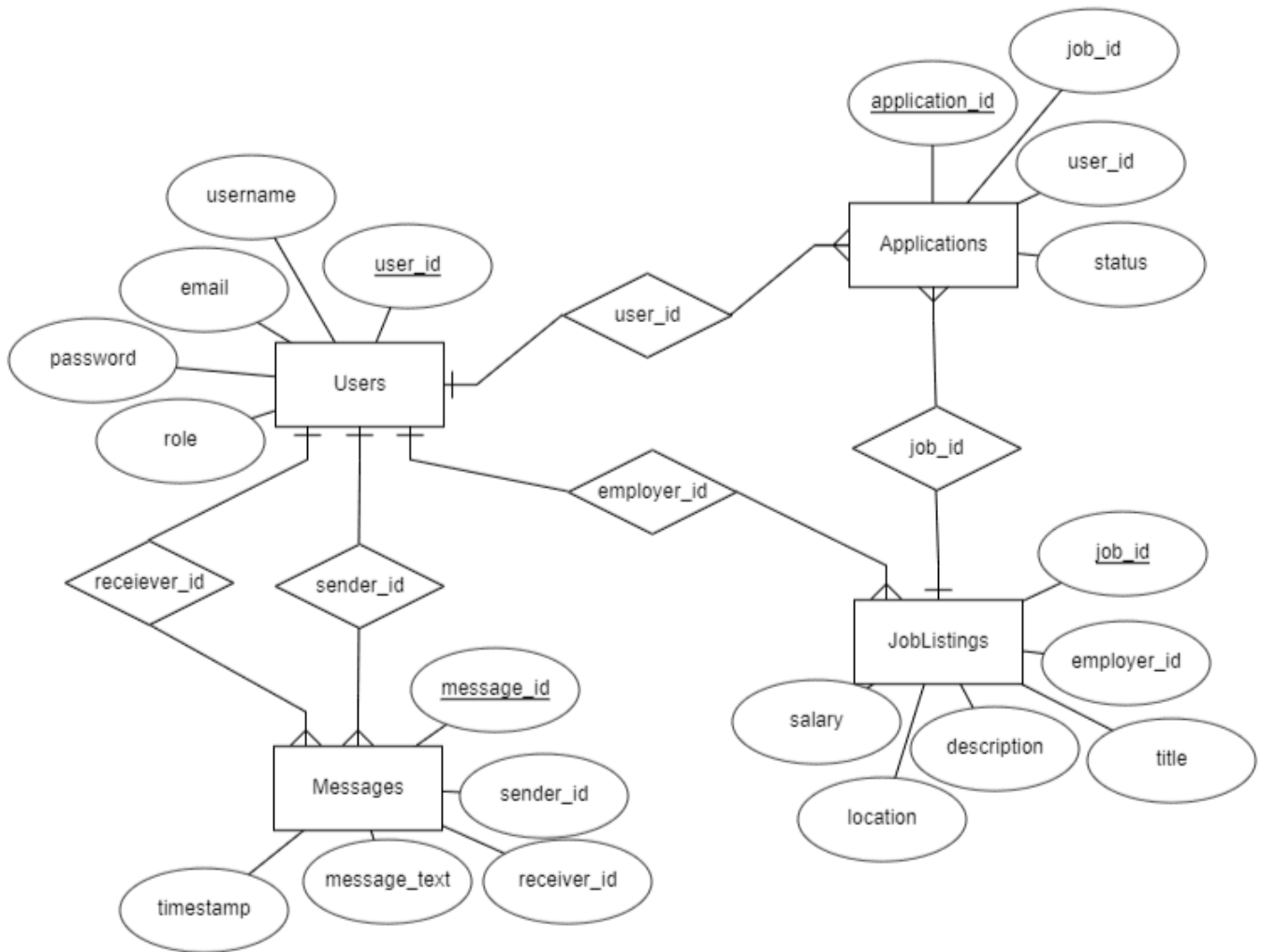
LAYOUT DESIGN

INDEX PAGE

Page Name: - Home Page

Description: - This is my first page of site Index Page

Job Portal

Page Name: - Aboutpage

Description: - On this page, you can view information about my project.
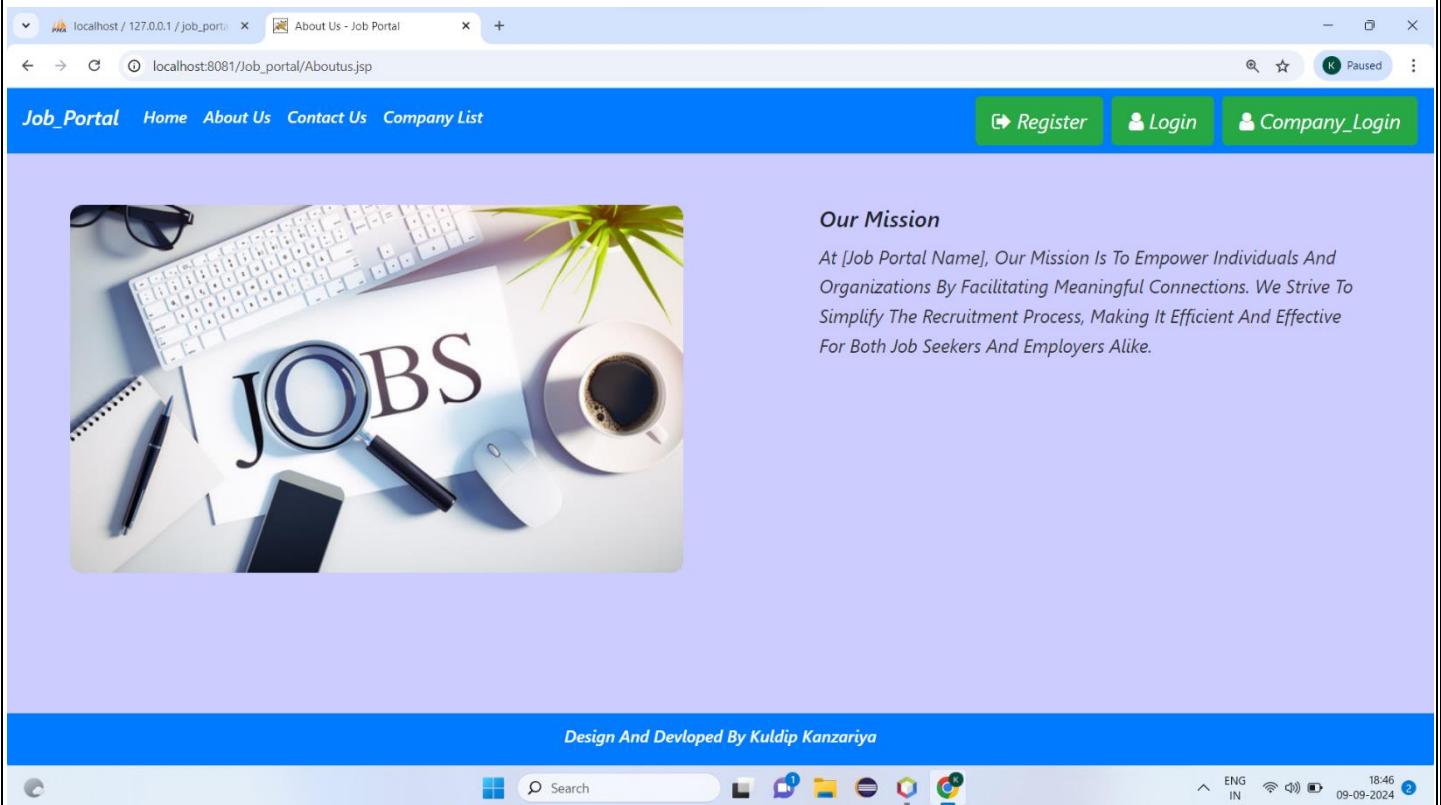
Job Portal

Page Name: - Contactuspage

Description: - Tis page is contactus page used to contact with me…
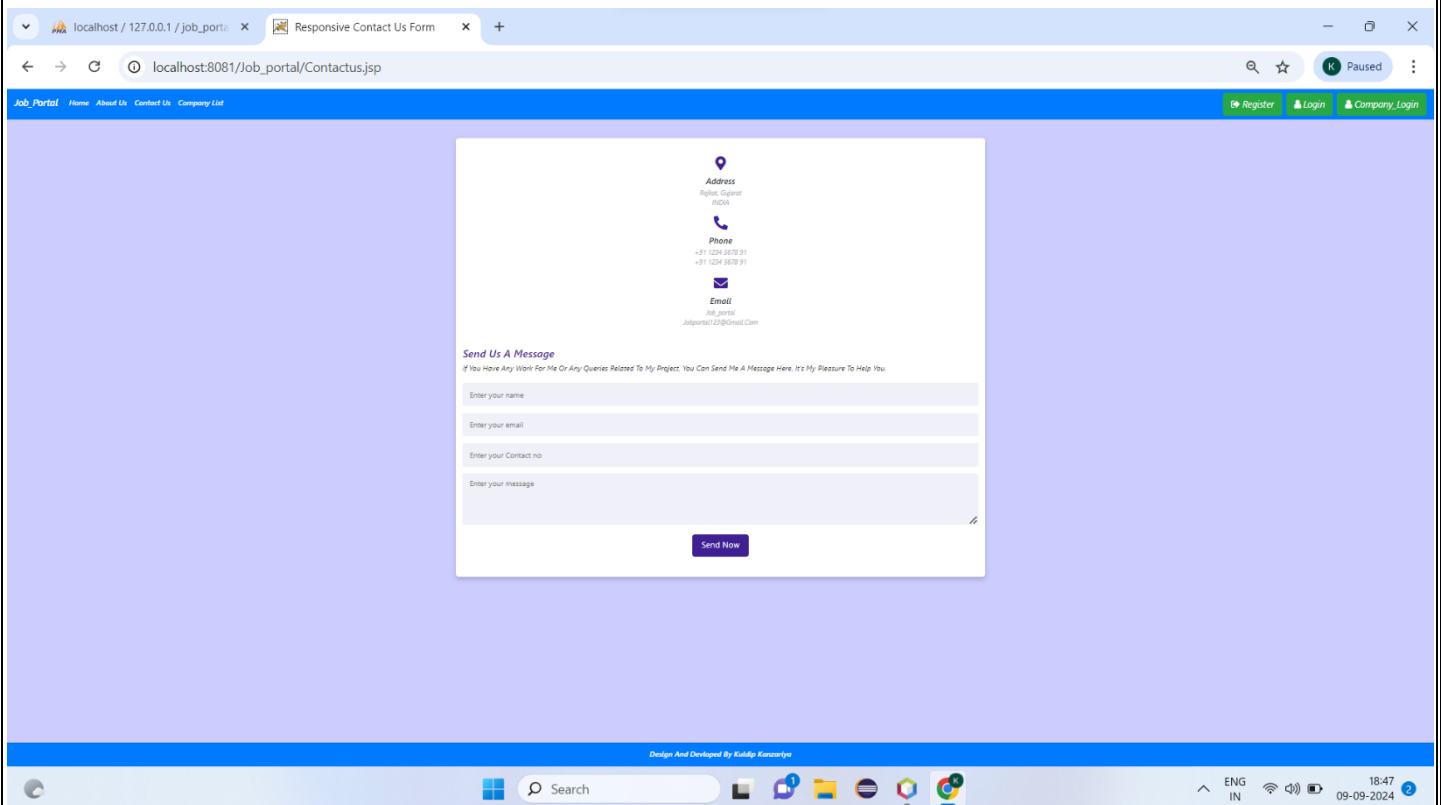
Job Portal

Page Name: - companylist page
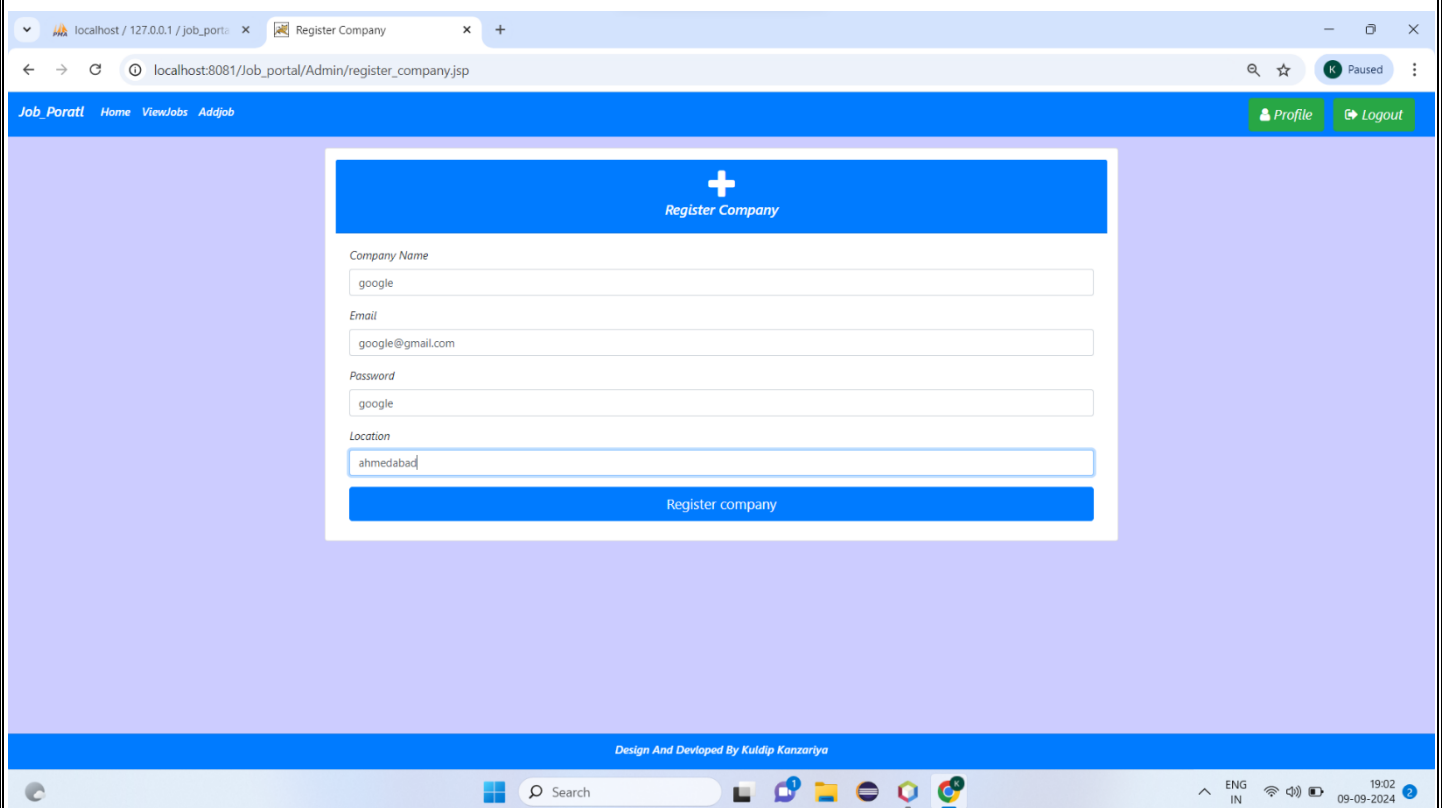
Description: - Participate company list..
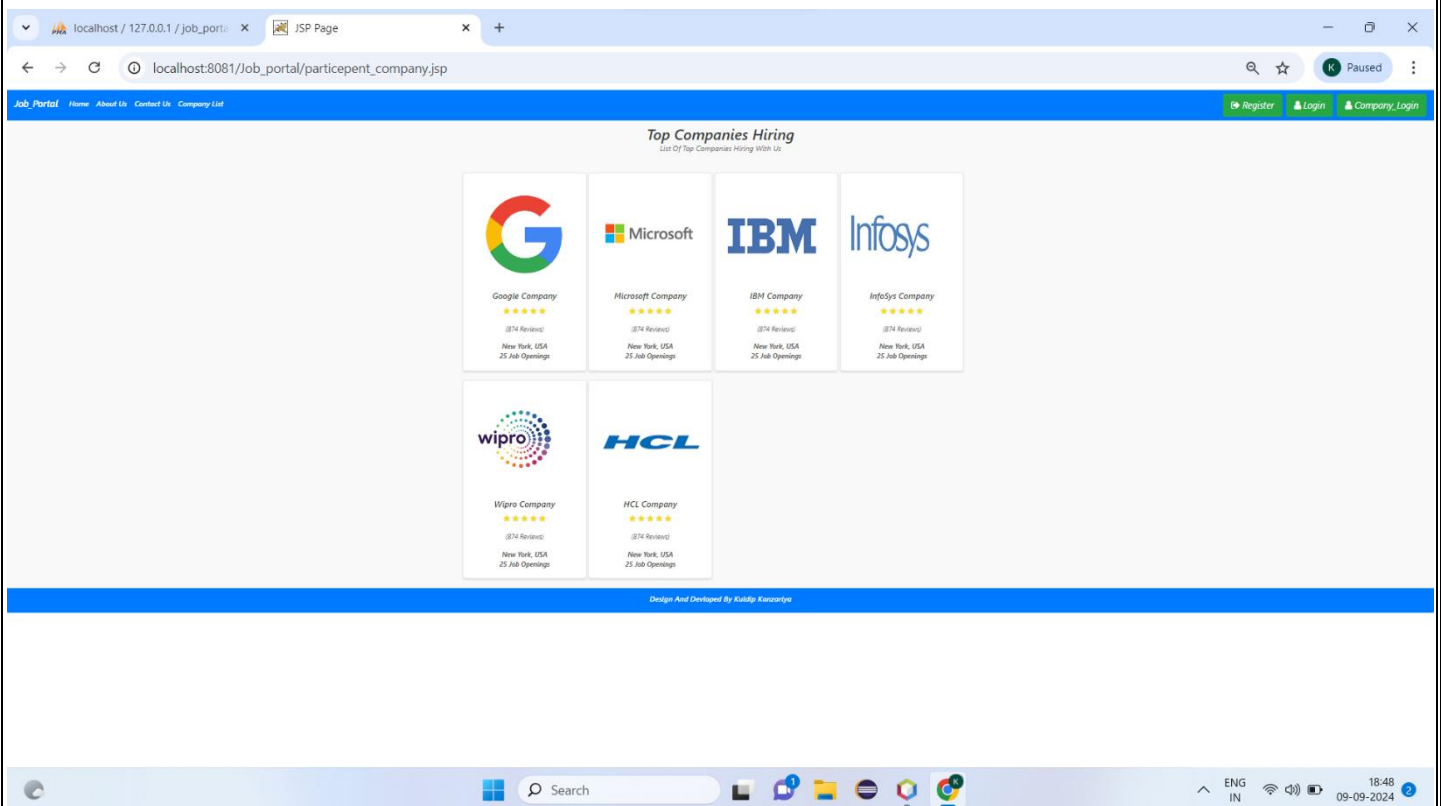
Job Portal

Page Name: - Register Companypage

Description: - Admin Register company

Job Portal

Page Name: - Company Homepage

Description: - After login company add view job or view applyjoblist.
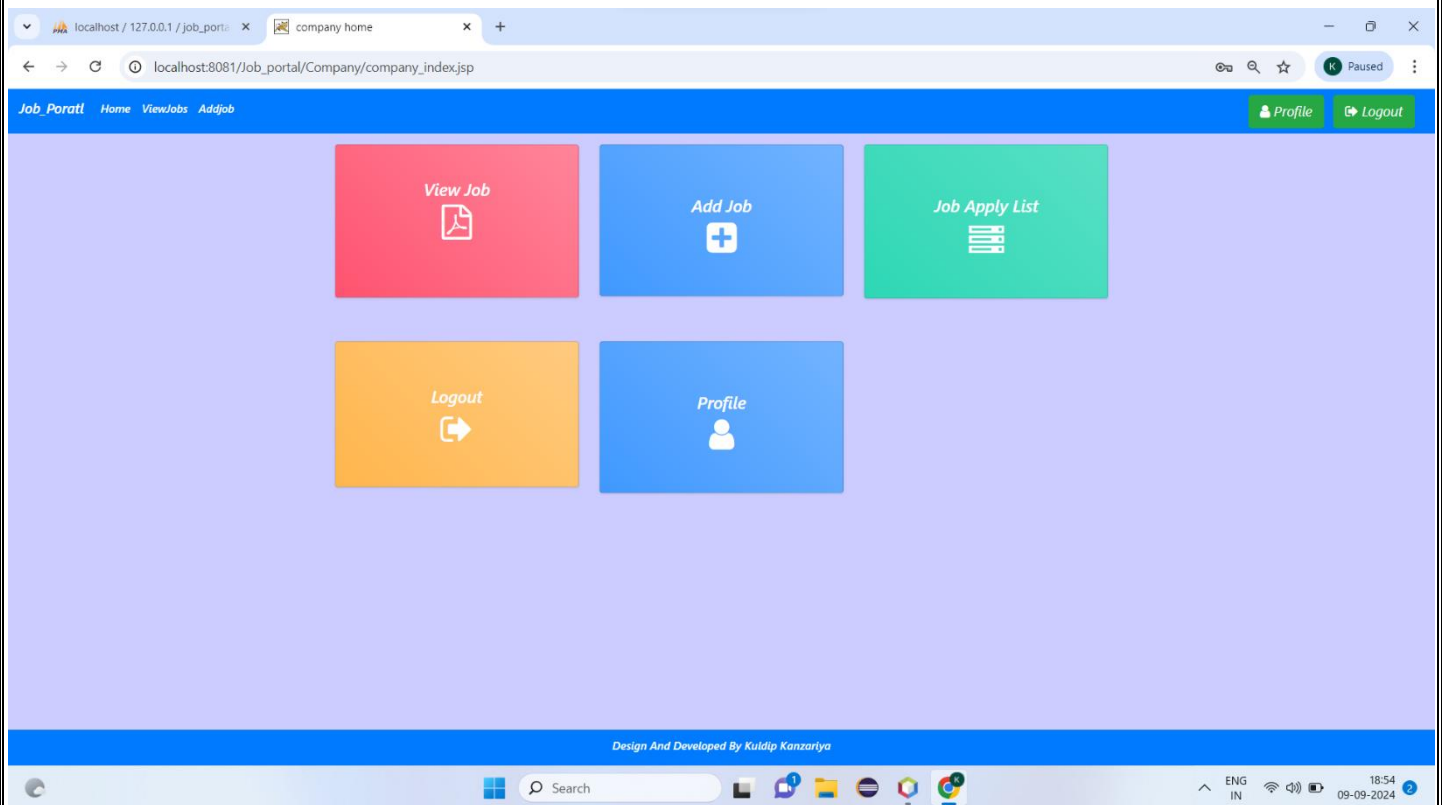
Job Portal

Page Name: - Addjob page

Description: - This page is used to add job company after login page is access.

Job Portal

Page Name: - Company view Applyjoblist page

Description: - page is use to view how much user can apply for job..
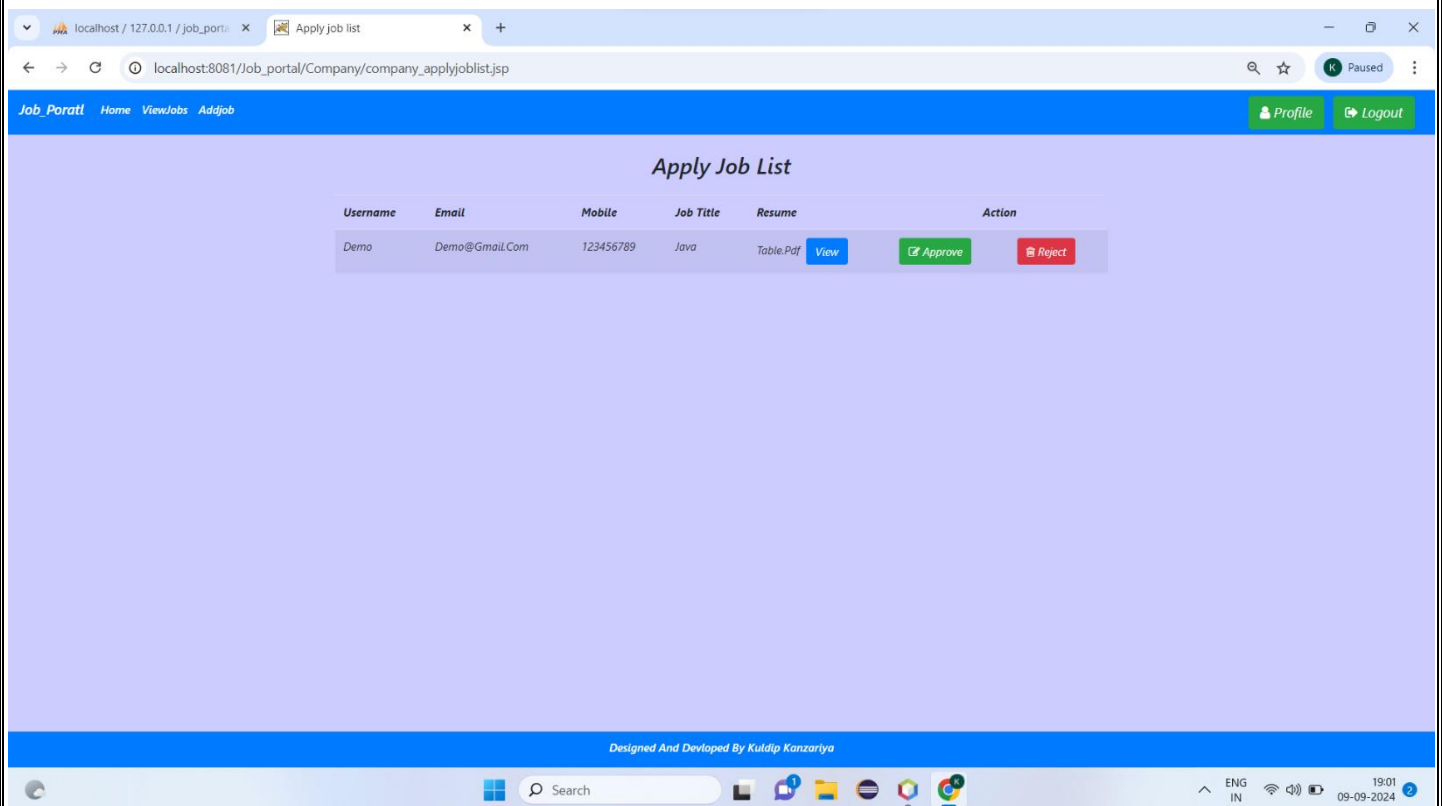
Job Portal

Page Name: - Admin home page

Description: - home page of admin maintain user register company .
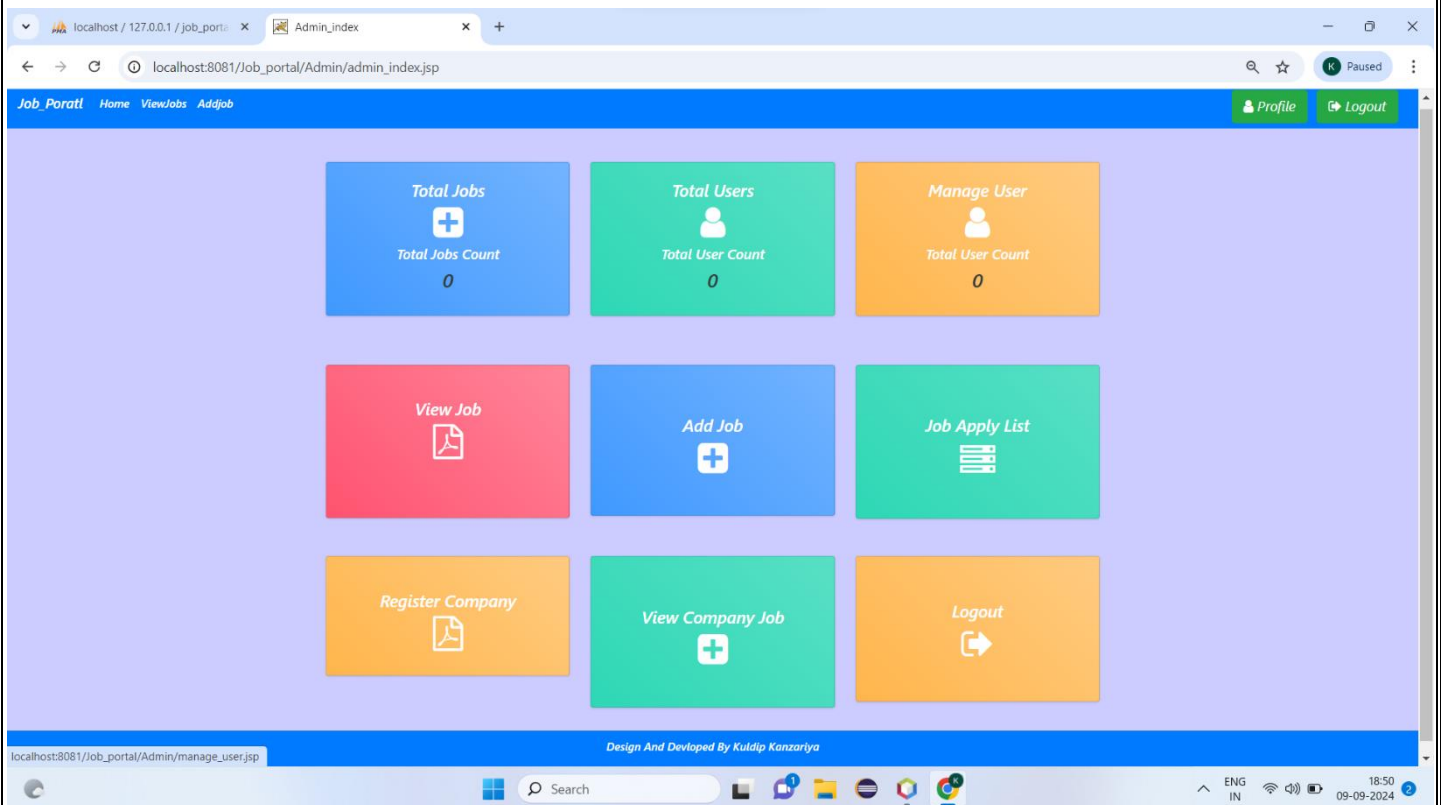
Job Portal

Page Name: - viewjob company wise

Description: - Admin view job Company wise list..

Job Portal

Page Name: - viewjob page

Description: - User view all job available all company.
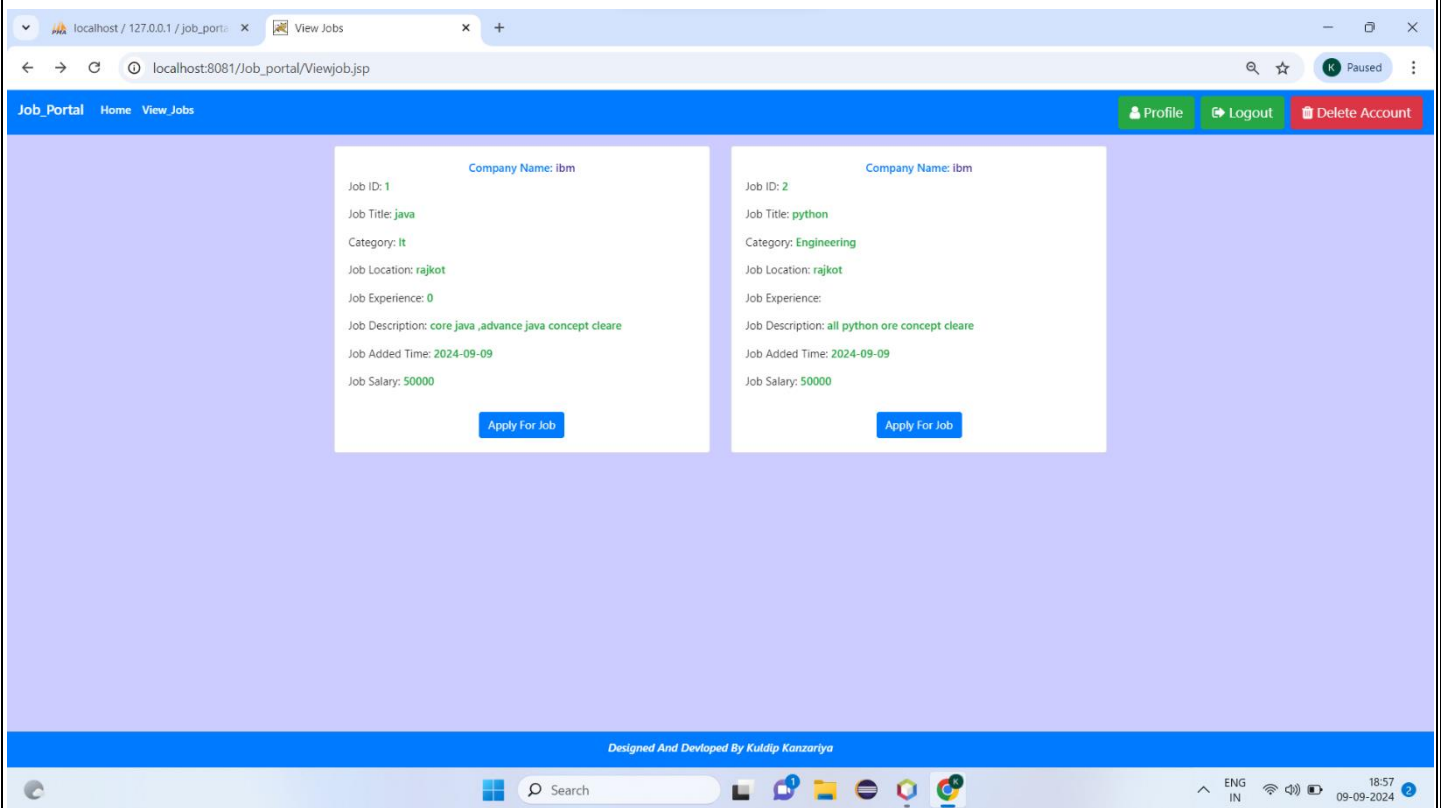
Job Portal

Page Name: - Applyjob page

Description: - user apply for job.
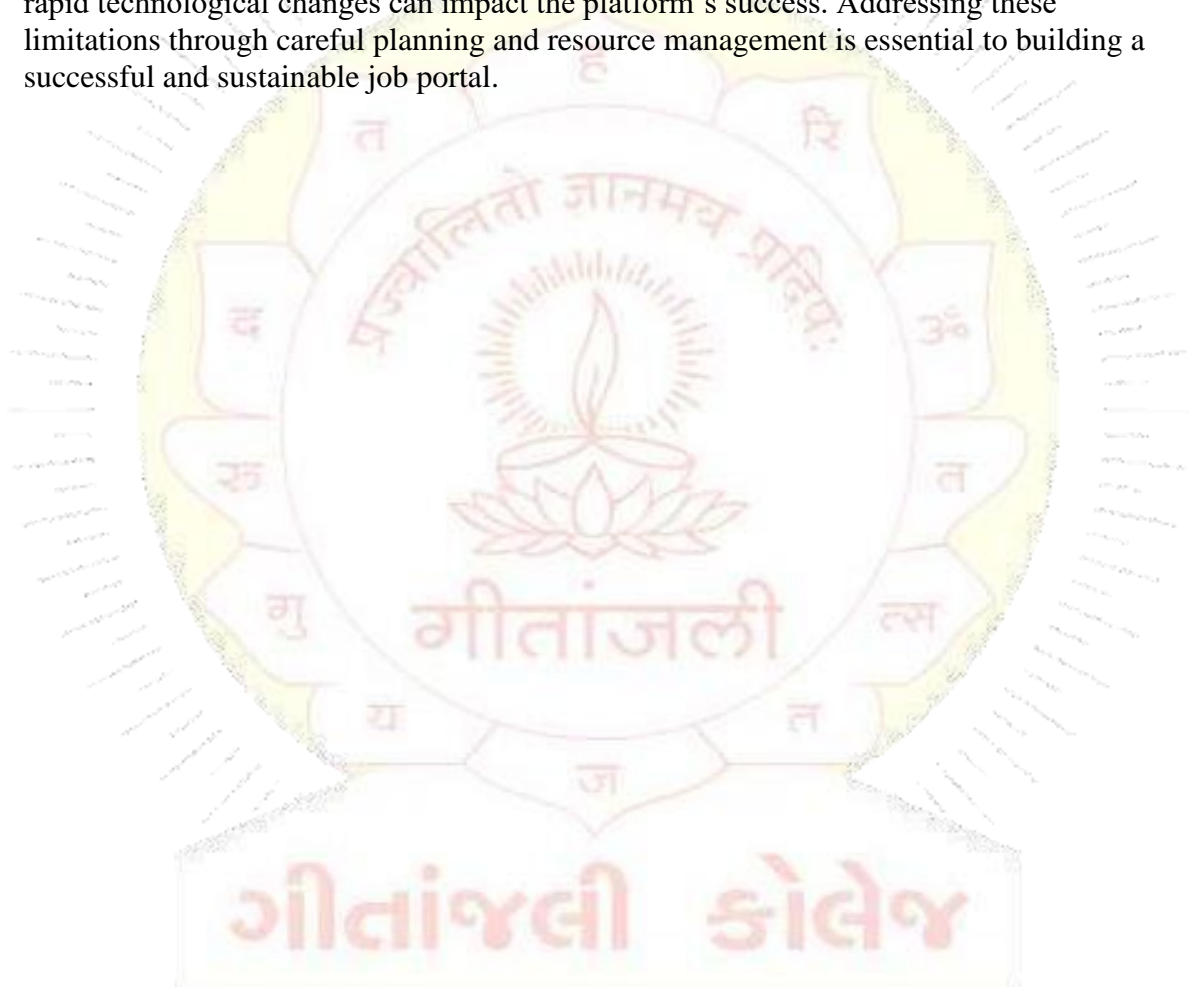
FUTURE REQUIREMENTS OF PROJECT

- Future requirements for a job portal project involve enhancing user experience with AI-powered features, expanding integration capabilities, providing advanced tools for both job seekers and employers, and ensuring scalability, security, and compliance. By implementing these requirements, the job portal can stay competitive, meet evolving user needs, and support growth in the dynamic job market.
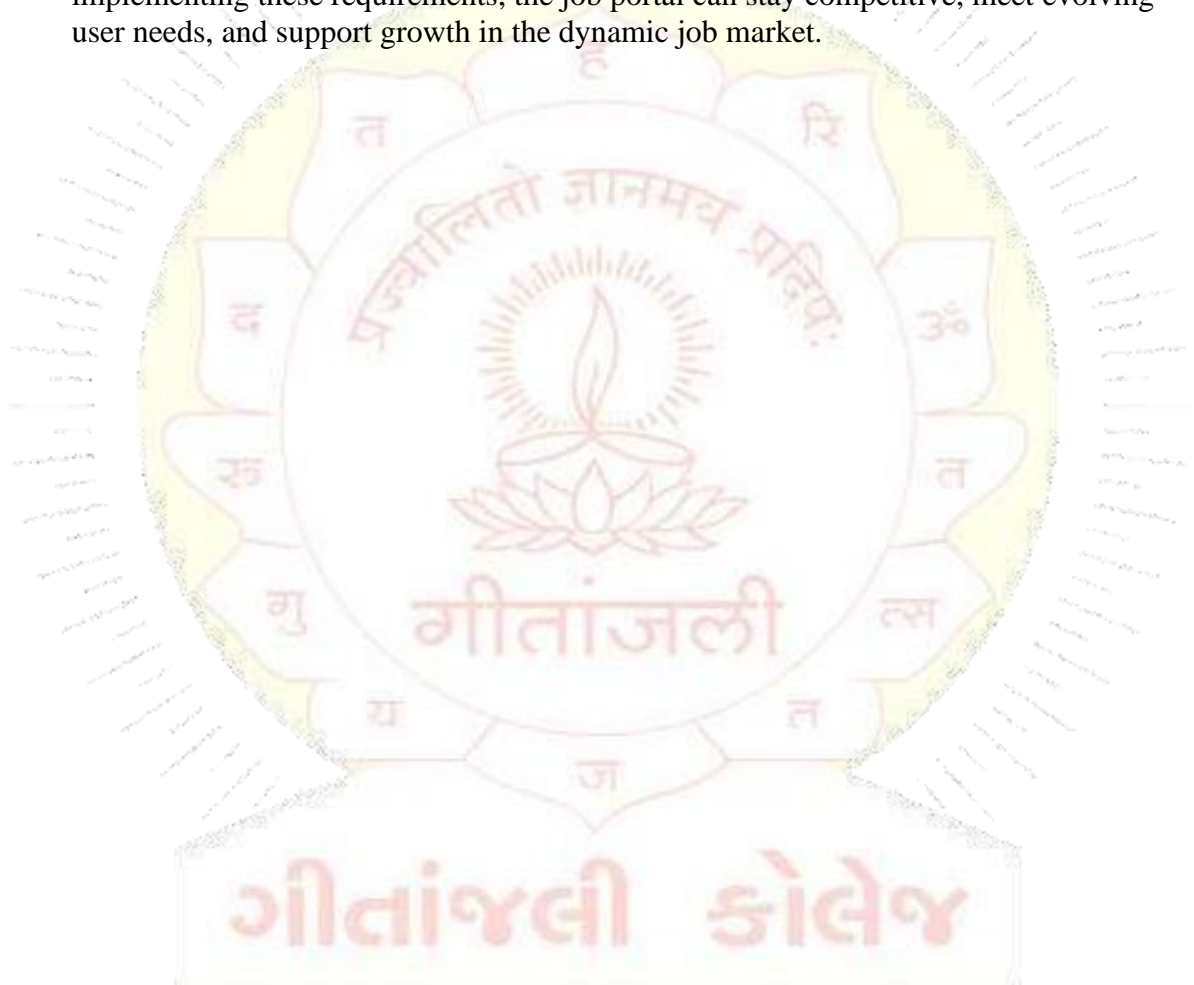
LIMITATION OF PROJECT

- The limitations of a job portal project include technical challenges related to scalability and integration, security and privacy concerns, and user experience issues such as adoption and accessibility. Functional limitations, financial constraints, and the need for ongoing maintenance also pose challenges. Additionally, the competitive landscape and rapid technological changes can impact the platform's success. Addressing these limitations through careful planning and resource management is essential to building a successful and sustainable job portal.

BIBLIOGRAPHY

Resources Used

Google: https://www.google.com/

Stack Overflow: https://stackoverflow.com/

ChatGPT by OpenAI: https://chat.openai.com/

GitHub: https://github.com/