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Abstract

Our current generation uses the internet for everything right from shopping to getting hired. In this project, I attempt to address and minimize the gap between the job seeker and the recruiter through this ONLINE JOB PORTAL (Web Application) using python Django. This is done by considering details of both the job seeker and the recruiter and by applying a variety of filters to satisfy their requirements. Job seekers can search for vacancies according to their location, preferred job as well as a recruiter can easily find suitable and eligible candidates using the job seeker's resume and profile details. In addition to this, there will be an administrator to manage and authenticate the system services. I am using MVT, a software designing architecture, to design this system. This application provide updates on all job availabilities posted within the past 15 days along with their opening and closing dates.

INTRODUCTION

Nowadays various problems can be solved using portals of different applications or services.

One such is a portal of requirements for the person who is seeking a job. Nowadays, online recruitment has become the standard method for employers.

As of today, an infinite number of online job portals are available dividing the labor market into information rooms, making it a path to find a job. Yet the current system needs to be upgraded to make the portals work easier for the recipients.

Hence, we have added the feature of detecting the search error using A.I and we also provided informative videos to uplift their career. This Project is done by using Python Django, HTML, CSS, JavaScript, and Bootstrap 5. We have used MVT (Models, Views, Template) to design this project.

In this application there are mainly three types of actor, one is the job seekers, one is the employers or recruiters and the admin panel.

By this application system the jobseekers can register themselves and find jobs of their choice and apply for them by the requirements.

The recruiters can post Job vacancies and manage the applied jobseekers.

The admin panel mainly manages all the users.

PROPOSED SYSTEM

In the proposed system, I am intended to make the portal user-friendly. Providing updates on all job availabilities posted in the past along with their opening and closing dates on the home page. In this project, there are searching job option by their location and job title. I am using Models-Views-Template (MVT), software designing architecture, to design the system where 'Models' connect the frontend and backend, "Views" provides business logic for manipulating data, and "Template" acts as an interface (GUI) that facilitates the user and system interaction. MVT architecture is provided by Django which is scalable and reusable

ARCHITECTURE DIAGRAM

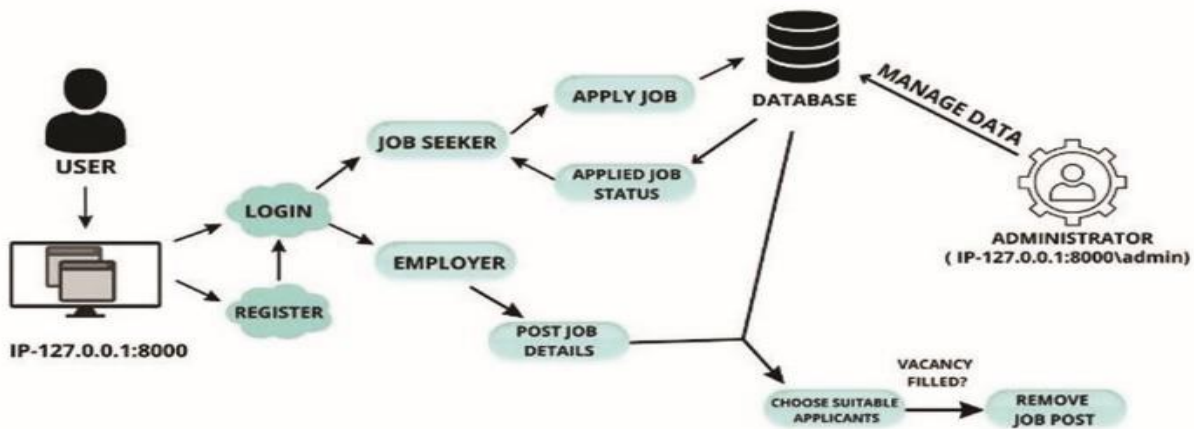


Figure 1: Architecture Diagram

Explanation:

The user logs in to the main page of the web application. A registered user can log in to his/her profile through their login credentials. If not, then he needs to register first and then log in. The user of this application is either a job seeker or an employer. The roles of the job seeker are applying for the job, viewing the status of the applied job as well seek guidance from the available video resources. The role of the employer is to post available jobs and access the information from the database that contains the information about the job seeker and choose the eligible applicants. Once the employer has chosen the employee then he can change the status of the job from “vacant” to “filled” and remove the job post. The administrator accesses his dashboard and be able to view and manage the details of both the job seeker and employer from the database.

Technology Used

1. For the backend there used **python , Django framework.**
2. For the database there used **sqlite3.**
3. For frontend and styling there used **HTML,CSS,Bootstrap5.**
4. The IDE I used is **Visual Studio Code.**
5. This project is made in **Windows10 Operating System.**



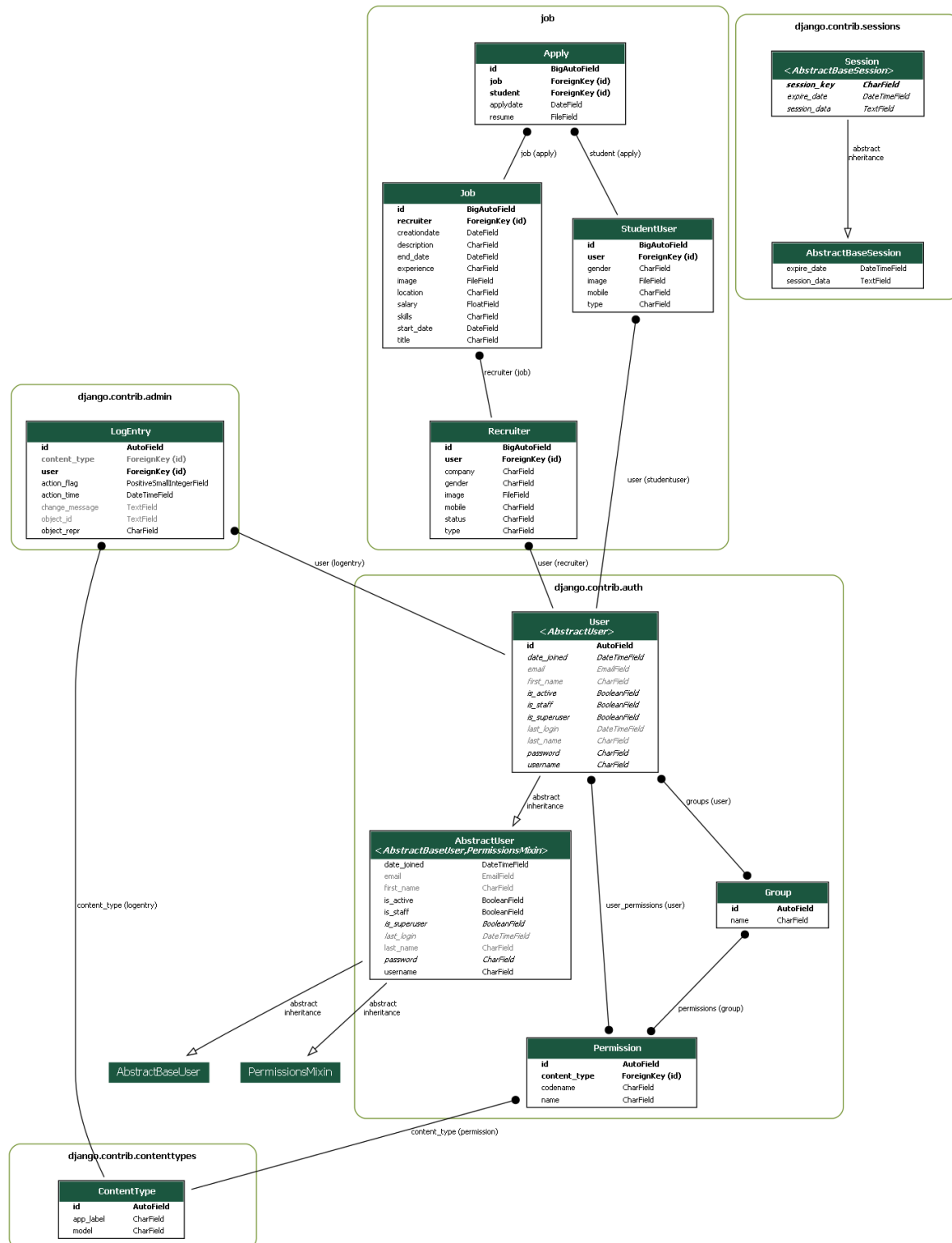


Figure 2: ER diagram

Software Designing Architecture: MVT

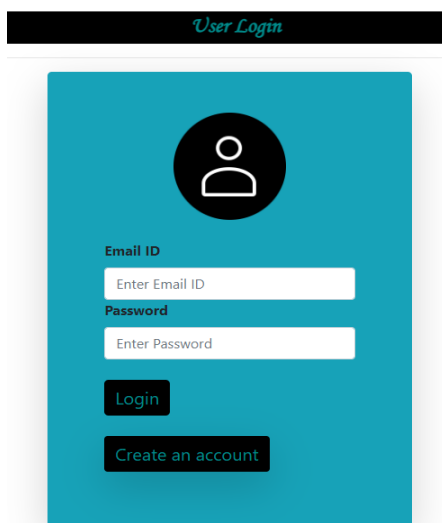
The model acts as an interface for the data. Its responsibility is to maintain the data. It makes up the logical data structure of the entire application and is represented by a database. The view is your web browser's user interface a website's rendering produces the view. It is represented by HTML/CSS/JavaScript. The static part of the desired HTML output is the Template. However, it has some special syntax that defines how to insert dynamic content.

Modules

- i. Login
- ii. Registration
- iii. Recruiter
- iv. Jobseeker
- v. Administrator

LOGIN

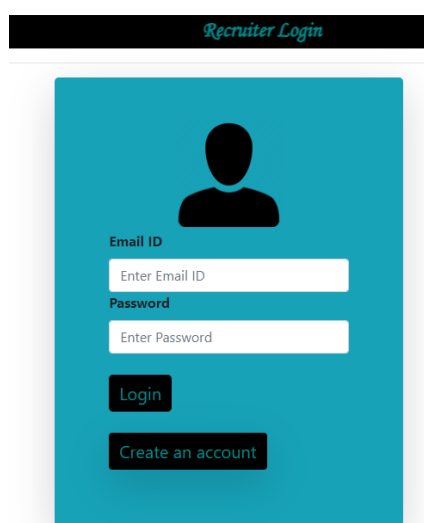
The login module gets the username and password of the user. If the user is already a registered user, then it leads to the user's dashboard. In the case of a new user, he/she needs to sign up by giving his/her details



User Login

Form with a teal background and a white user icon. Fields include Email ID (with placeholder 'Enter Email ID') and Password (with placeholder 'Enter Password'). Buttons for 'Login' and 'Create an account' are at the bottom.

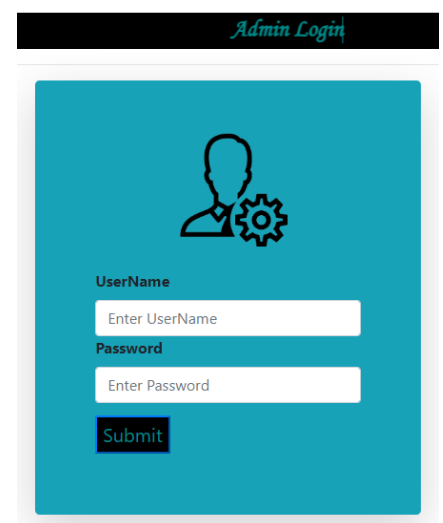
Figure 5: User Login



Recruiter Login

Form with a teal background and a white recruiter icon. Fields include Email ID (with placeholder 'Enter Email ID') and Password (with placeholder 'Enter Password'). Buttons for 'Login' and 'Create an account' are at the bottom.

Figure 4: Recruiter Login



Admin Login

Form with a teal background and a white admin icon. Fields include UserName (with placeholder 'Enter UserName') and Password (with placeholder 'Enter Password'). A 'Submit' button is at the bottom.

Figure 3: Admin Login

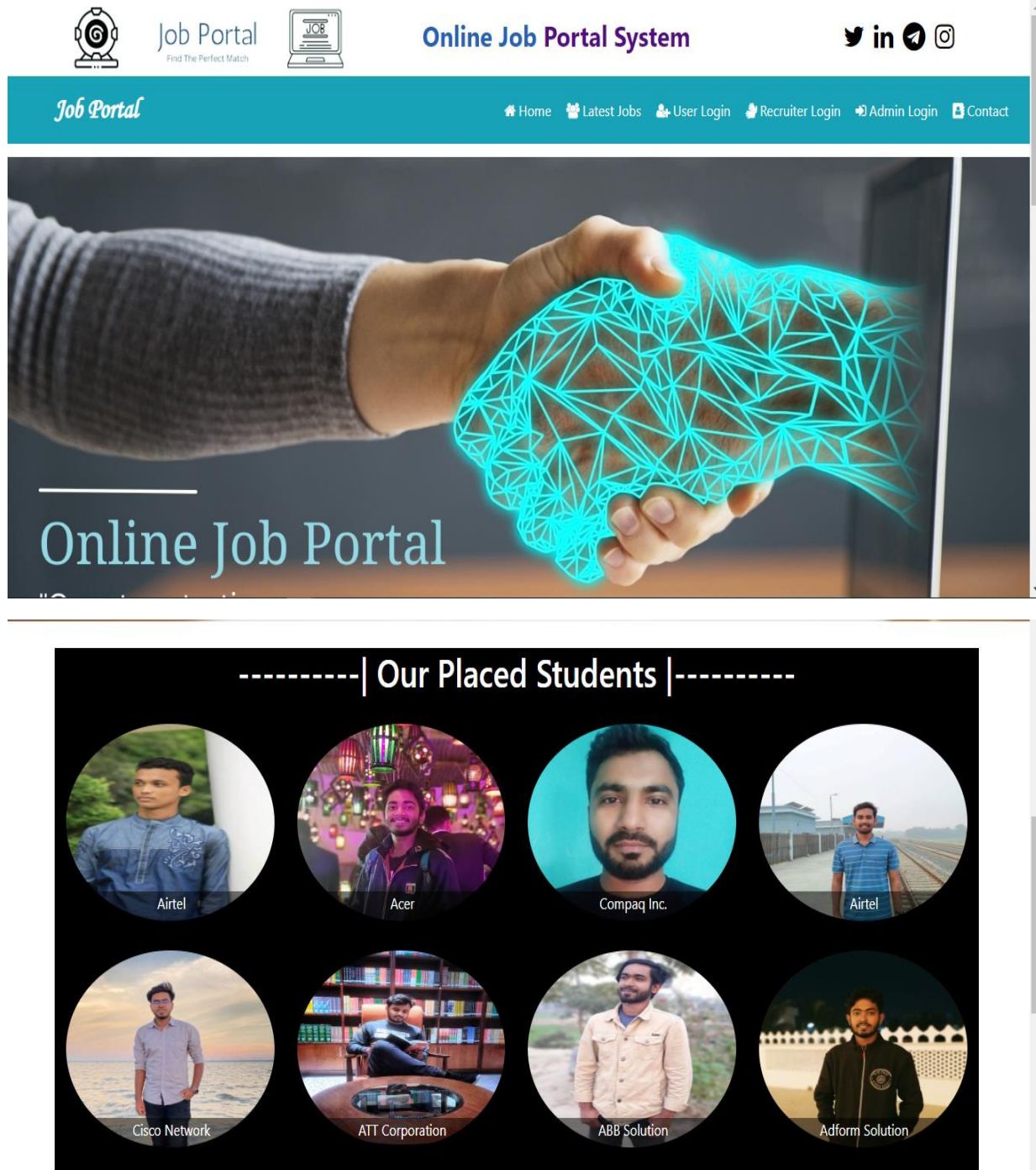
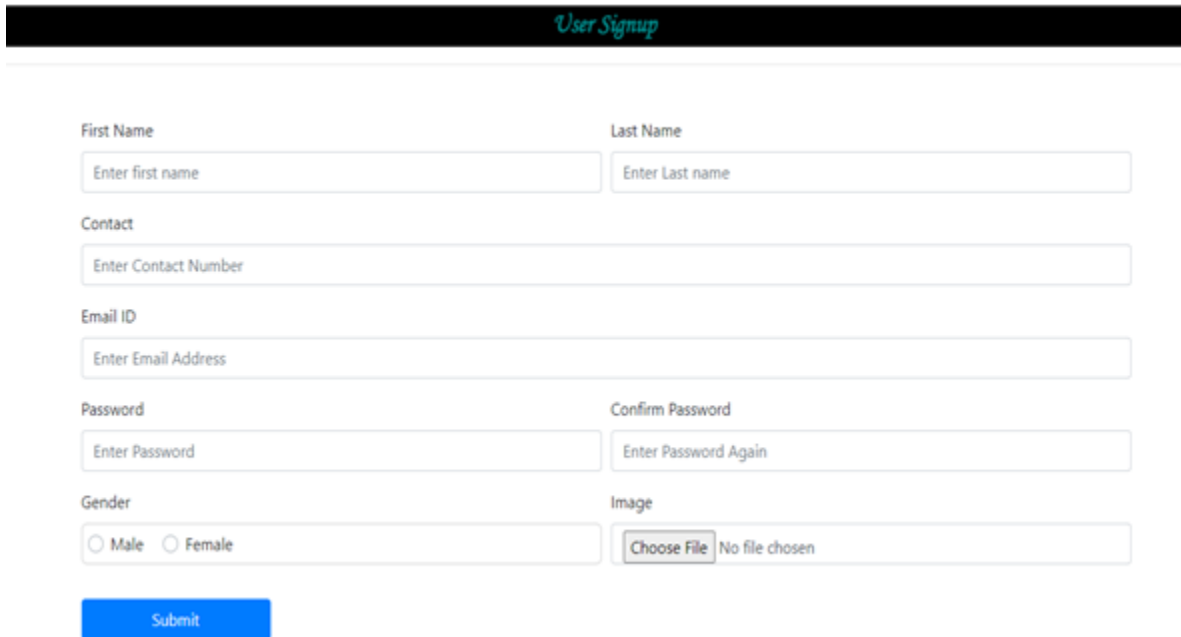


Figure 6: Home page

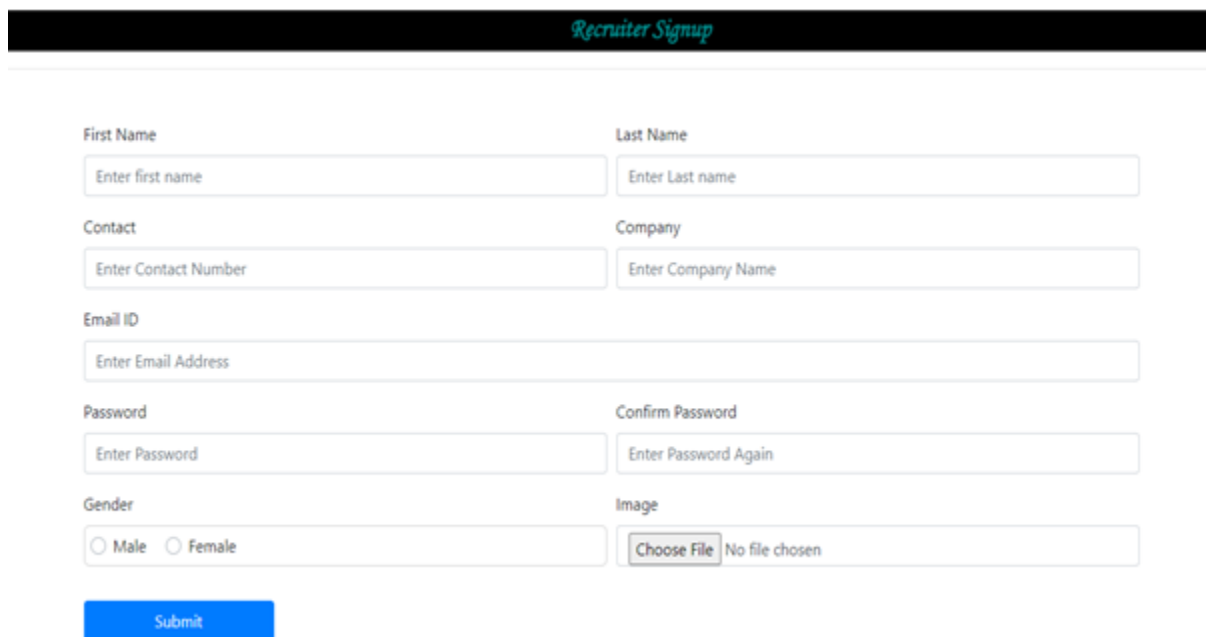
REGISTRATION

This module gets the required details of the user (name, mail, password, etc.,) to register the account to make the user an authenticated one to access the web application.

Figure 7: Registration page for User



The 'User Signup' form is presented on a black header with the title 'User Signup' in green. It contains several input fields: 'First Name' and 'Last Name' (both with placeholder text 'Enter first name' and 'Enter Last name' respectively), 'Contact' (placeholder 'Enter Contact Number'), 'Email ID' (placeholder 'Enter Email Address'), 'Password' (placeholder 'Enter Password'), and 'Confirm Password' (placeholder 'Enter Password Again'). There is a 'Gender' section with radio buttons for 'Male' and 'Female'. An 'Image' section features a 'Choose File' button and the text 'No file chosen'. A blue 'Submit' button is located at the bottom of the form.

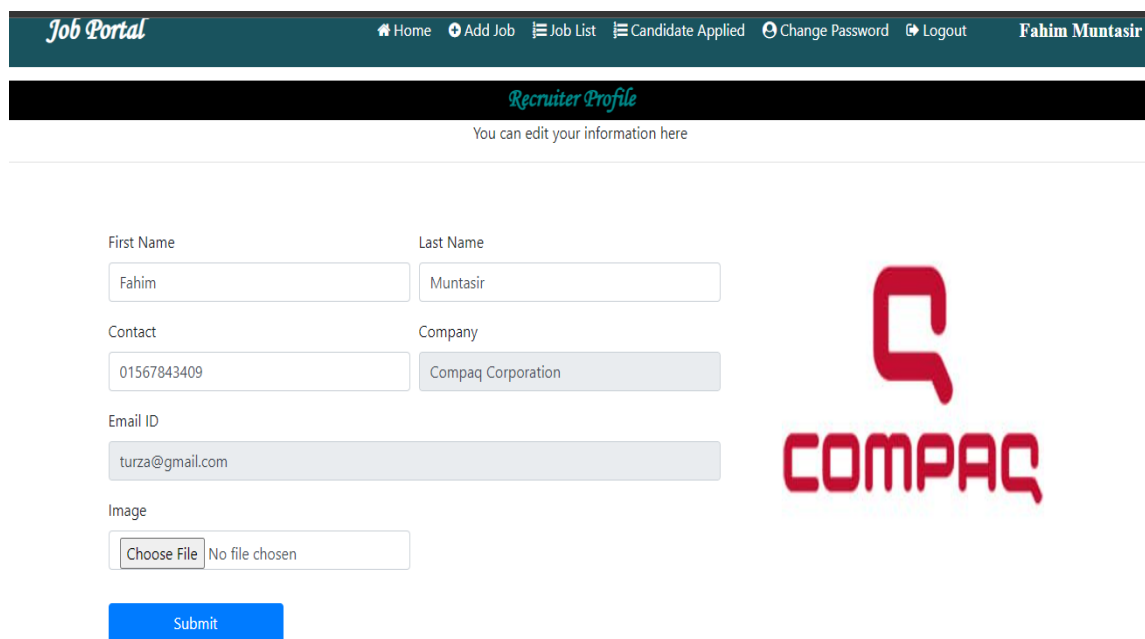


The 'Recruiter Signup' form is presented on a black header with the title 'Recruiter Signup' in green. It contains several input fields: 'First Name' and 'Last Name' (both with placeholder text 'Enter first name' and 'Enter Last name' respectively), 'Contact' (placeholder 'Enter Contact Number'), and 'Company' (placeholder 'Enter Company Name'). There is an 'Email ID' field (placeholder 'Enter Email Address'), a 'Password' field (placeholder 'Enter Password'), and a 'Confirm Password' field (placeholder 'Enter Password Again'). There is a 'Gender' section with radio buttons for 'Male' and 'Female'. An 'Image' section features a 'Choose File' button and the text 'No file chosen'. A blue 'Submit' button is located at the bottom of the form.

Figure 8: Registration page for Recruiter

Recruiter

1. The recruiter first logs into his/her account.
2. He/she can post the details of the job such as skill requirements, specifications, working hours, salary details, and mode of job (online or offline).
3. They choose the suitable applicants till the vacancies are full and remove the posted job details.



The screenshot displays the 'Recruiter Profile' page of a 'Job Portal'. The top navigation bar includes links for Home, Add Job, Job List, Candidate Applied, Change Password, and Logout, along with the user's name 'Fahim Muntasir'. Below the navigation bar, the page title 'Recruiter Profile' is shown, followed by the instruction 'You can edit your information here'. The main content area contains a form with the following fields: First Name (Fahim), Last Name (Muntasir), Contact (01567843409), Company (Compaq Corporation), Email ID (turza@gmail.com), and Image (Choose File, No file chosen). A blue 'Submit' button is located at the bottom of the form. To the right of the form, the 'COMPAQ' logo is displayed in red.

Field	Value
First Name	Fahim
Last Name	Muntasir
Contact	01567843409
Company	Compaq Corporation
Email ID	turza@gmail.com
Image	Choose File (No file chosen)

Figure 9: Recruiter Dashboard

Job Portal
Home
Add Job
Job List
Candidate Applied
Change Password
Logout
Fahim Muntasir

Add Job Details

Job Title

Enter Job Title

Start Date

mm/dd/yyyy

End Date

mm/dd/yyyy

Salary(Per Month)

Company Logo

Choose File No file chosen

Experience(In Years)

Enter Experience

Company Location

Enter Location

Skills

Skills Required

Figure 10: Add Job post

Job Portal
Home
Add Job
Job List
Candidate Applied
Change Password
Logout
Fahim Muntasir

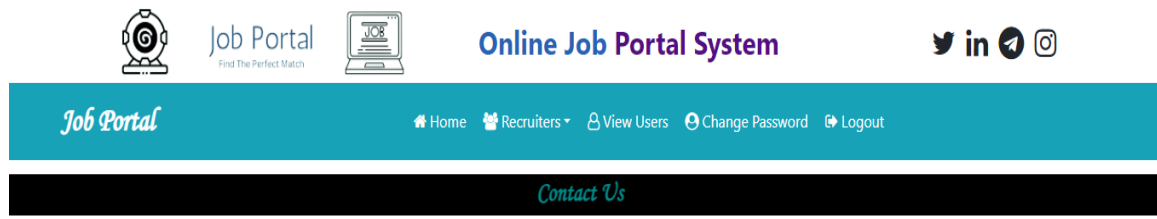
Applied Candidate List

S.No.	Full Name	EmailID	Contact No.	Job Title	Company	Apply Date	Resume
2	Sojib Roy	sojib@gmail.com	01567843412	HR Internship	Compaq Corporation	Dec. 11, 2023	Download Resume

Figure 11: View applied candidates

ADMINISTRATOR

1. The administrator collects the information and maintains the databases containing the details of the employer and the job seeker.
2. The administrator can view the data, manage them, and alter the data in correspondence with the varying demands of the employer and job seeker.



Total Recruiters

9

Total Users

8

Figure 12: Admin Dashboard

The 'View All Recruiter' page shows a table of registered recruiters. The table has columns for S.No., Full Name, Email ID, Contact, Gender, Company, Image, Status, and Action. There are four rows of data, each with a company logo (ABB, acer, adform, and Airtel). The 'Action' column contains 'Change Status' and 'Delete' buttons for each recruiter.

S.No.	Full Name	Email ID	Contact	Gender	Company	Image	Status	Action
1	Sumon Roy	sumon@gmail.com	01567843401	Male	ABB Group		Accept	Change Status Delete
2	Shihab Abir	sihab@gmail.com	01567843402	Male	Acer Inc.		Accept	Change Status Delete
3	Anup Ghosh	ag@gmail.com	01567843411	Male	Adform		Accept	Change Status Delete
4	Asfak Chisti	asfak@gmail.com	01567843403	Male	Airtel		Accept	Change Status Delete

Figure 13: Admin manages recruiters

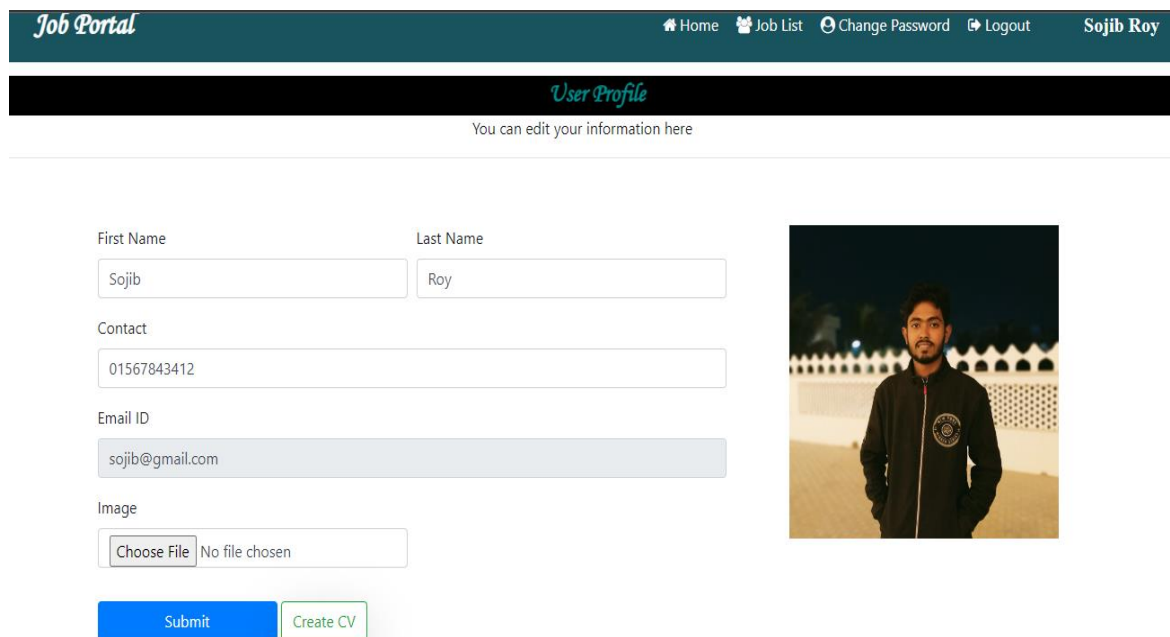
The 'View All Users' page shows a table of registered users. The table has columns for S.No., Full Name, Email ID, Contact, Gender, Image, and Action. There are three rows of data, each with a user profile picture. The 'Action' column contains a 'Delete' button for each user.

S.No.	Full Name	Email ID	Contact	Gender	Image	Action
1	Sojib Roy	sojib@gmail.com	01567843412	Male		Delete
2	Sougata Ghosh	sougata@gmail.com	01567843413	Male		Delete
3	Rehab Hossain	rehab@gmail.com	01567843414	Male		Delete

Figure 14: Admin manages users

JOB SEEKER

1. The job seeker enters the home page using the login credentials.
2. He/she searches through the list of available job openings.
3. They can apply for a job that fulfills the requirements and also check the status of the applied job.
4. They can make CV from this portal.



The screenshot displays the 'Job Portal' user interface. At the top, a dark teal navigation bar contains the 'Job Portal' logo on the left and links for 'Home', 'Job List', 'Change Password', 'Logout', and the user's name 'Sojib Roy' on the right. Below this is a black header with the text 'User Profile' in green and 'You can edit your information here' in white. The main content area is white and contains a form for user details. The form includes input fields for 'First Name' (containing 'Sojib') and 'Last Name' (containing 'Roy'), a 'Contact' field (containing '01567843412'), and an 'Email ID' field (containing 'sojib@gmail.com'). There is also an 'Image' section with a 'Choose File' button and the text 'No file chosen'. At the bottom of the form are two buttons: a blue 'Submit' button and a green 'Create CV' button. To the right of the form is a profile picture of a man with a beard wearing a black jacket, standing in front of a white wall at night.

Figure 15: Job seekers dashboard



Job Portal
Find The Perfect Match



Online Job portal system






Job Portal

[Home](#)
[Job List](#)
[Change Password](#)
[Logout](#)

Sojib Roy

Latest Job List

S.No.	Company Name	Job Title	Location	Start Date	Last Date	Action
1	Compaq Corporation	HR Internship	Dhaka	Dec. 10, 2023	Dec. 20, 2023	<input type="button" value="Apply"/>
2	ABB Group	Software Engineer	Gopalganj	Dec. 8, 2023	Dec. 31, 2023	Appllied
3	Airtel	Network Architect	Rajshahi	Dec. 1, 2023	Dec. 15, 2023	<input type="button" value="Apply"/>
4	Airtel	Network Administrator	Dhaka	Nov. 29, 2023	Dec. 16, 2023	<input type="button" value="Apply"/>
5	Airtel	Network Engineer	Faridpur	Nov. 28, 2023	Dec. 14, 2023	<input type="button" value="Apply"/>

Figure 16: Job list shown by the job seeker

CV generator

Job seekers can make CV by filling up this form.

Personal Information

Full name:
Email:
Phone number:

Address:

Profile image: No file chosen

Education

Degree:
Institution:
Graduation year:

Experience

Job title:
Company:
Start date:
End date:

Description:

[Go back home](#)

Figure 17: CV generator form

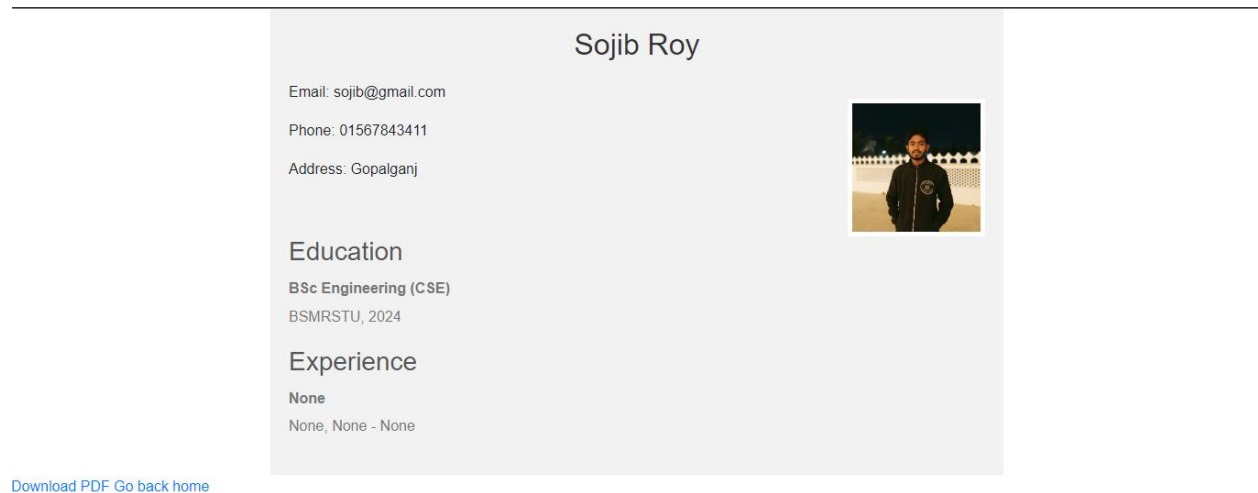


Figure 18: Output of the CV

Future Enhancement

The future implementation will be online help for the users and chatting with website administrator. Add job preparation section.

CONCLUSION

To sum it up, the online job portal we talked about makes finding jobs and hiring people much easier. It's like a super user-friendly website where job seekers and employers can easily connect. With lots of jobs and smart technology, it's set to change the way people find work and companies find employees. It's not just a website; it's a cool way to make the job market work better for everyone.

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