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AN-NAJAH NATIONAL UNIVERSITY



Computer Engineering Department

Software Graduation Project

JobsHub App and Website

students

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Abstract

Many companies suffer from problems when offering a job, as hundreds of people apply for one job even if they do not match the required requirements, and this takes a long time when filtering the CVs by human resources. Jobshub is a application that deals companies and people who are looking for job . The application allows the user to create an account and It allows the user to make a CV and print the CV and they can add posts about their achievements(self marketing) and can see other people's posts. As for companies, they have an account on the site and also they can advertise jobs and its appear on their personal page and they can see people whose applying for jobs, filter the CV, and people can communicate with companies through messages.

1 Introduction

Nowadays, the job market is experiencing a shortage of opportunities due to the increasing number of graduates. Consequently, companies face the challenge of sifting through a large pool of applicants when they advertise job vacancies. This situation poses difficulties in selecting the most suitable candidate, and the process of reviewing CVs within our software often becomes time-consuming. To address this issue, we have implemented advanced search filters that enable companies to efficiently search for and identify qualified candidates.

Moreover, our platform caters to the needs of graduates by providing a comprehensive database of available companies. This allows them to explore various job opportunities, submit their applications, and receive timely notifications when new positions are posted. Additionally, our system empowers users to create their own professional CVs, which can be prominently displayed on their personal pages or easily downloaded.

Furthermore, our website offers a unique feature that allows individuals to showcase their accomplishments and share them with others. These achievements are prominently displayed on their personal pages, offering potential employers valuable insights into their skills and capabilities. Additionally, all users can access and view these posts, fostering a sense of community and networking within the platform.

In conclusion, our website serves as a hub for individuals to showcase their achievements, create professional CVs, explore job opportunities with a wide range of companies, and facilitate seamless communication between job seekers and employers.

1.1 Overview of Report

In this report, we will show our work. We will start with chapter 2 Constraints and Earlier course work. In this chapter, we talked about the issues and hurdles we ran into at the start of the project and throughout the process. We also talked about projects and courses that helped us enhance our skills and expertise, which showed up in the project's progress. The next chapter is Literature Review. In chapter 3 we looked at several similar works as well as what makes ours unique. Then we narrow our focus to specific project components and discuss the extra functionality in our project. The fourth chapter is the Methodology chapter. Here, we discuss the strategy of this project, from collecting the features, selecting the design, and starting to build the screens for the application and the website and connecting them with the database. The chapter before last is Results and Analysis where we present and discuss our final findings. The last chapter is the Conclusions and Recommendation where we argued and discussed our findings.

2 Constraints, Standards/ Codes and Earlier course work

2.1 Constraints

2.1.1 Learn new frameworks

We used flutter and angler to build the front end for our project, this is our first time dealing with frameworks. It took a lot of time to learn. Also, we had to learn Asp .net For back end. We learned the basics but through the work, we needed to deal with many libraries to complete our work. The difficulty was the semester was short which made it hard to learn these frameworks and complete the entire project.

2.1.2 Routing between pages

The integration between Flutter, Angular, and .NET proved to be extremely challenging and time-consuming for us. There was a lack of helpful educational resources available, which made the process even more difficult.

2.2 Earlier Courses

2.2.1 Database course

This course helped us a lot when we collected the data and selected the relation between tables. It made it easier when we built tables and selected the database type.

2.2.2 Web development course

This course was the base of our work. We used HTML, CSS, and JavaScript to program the front end and PHP for the back end. And knowing enough about JavaScript made it easier to learn angler JS and work with it.

2.2.3 ASP.NET

We previously completed a course on ASP.NET and utilized it extensively throughout the semester. This course provided us with a solid understanding of ASP.NET frameworks, including MVC and Web API. We applied this

knowledge to develop our project and benefited from tutorials and videos to enhance our skills.

3 Literature Reviewn

Online job portals have revolutionized the job market by providing a convenient and centralized platform for job seekers and employers. These portals allow users to create profiles, browse job listings, and submit applications electronically. For companies, they offer a streamlined recruitment process by providing access to a pool of applicants' resumes that can be filtered based on specific criteria. The proposed website stands out by offering advanced CV filtering, matching job requirements, and improving the efficiency of candidate selection. Previous research has shown the benefits of online job portals in expanding candidate reach and reducing recruitment costs. By enhancing communication between job seekers and employers and facilitating targeted candidate selection, the proposed website can significantly improve the overall recruitment process.

4 Design and Implementation

In our project, we focused on making an application and a website joining every feature needed by the Job seeker and the company's. And to make it easier we split the users. The application will collect two users who are the Job seeker and the company's. And the website will be for two other users who are the admin, Then we built our database and selected the relation between tables. Since there are many relations on our database project we use MySQL database. After that, we chose to build the frontend using Angler for the website and Flutter for the application. but the backend we use ASP Net for both. We decided to work with Angler and ASP .NET because they are really common and don't have many problems.

4.1 The website design

We built the website and searched for the design of the pages. Depending on the functionalities we made pages that Job seeker and company's can sign up and sign in. then we implement home pages for both. Other pages are also designed for what Job seeker and company's need. For example, if the Job seeker needs to find a job , he will go search for the suitable one, so we made a pages that shows the job's with all information . We focused on companies when they advertise a job and receive applications. Then, we created a filter to help refine the CVs, which assists in the process of selecting candidates. Additionally, the website showcases advertised jobs and appears to individuals based on the field of interest entered in the database. Notifications are sent to individuals when a new job becomes available., we implemented a pages.to write the code we start with the frontend for the Job seeker's pages, the backend for the Job seeker's pages, the Company's pages frontend, and the backend for the Company's pages , "We have also created admin pages where administrators can view the companies and individuals registered on the website. They have the ability to add or delete them. Additionally, they can view a chart that displays the percentage of job advertisements for each company. Furthermore, there is a personal profile page where administrators can see the posts published by individuals." .

4.2 The Application design

We have developed an application specifically designed for job seekers. The application allows users to register and create an account. On the homepage, users can view all the job listings that have been posted. Additionally, there is a dedicated page where users can filter and view jobs based on their specific fields of interest.

The application enables users to search for job details, such as job titles or company emails. They can also directly apply for a job through the application. Moreover, users have the option to send emails directly to companies using the email button.

Within their personal profile page, users can edit and update their personal information. They can add new skills they have acquired or showcase projects they have completed. The website also provides users with notifications for all the newly posted jobs.

Overall, our application aims to streamline the job search process by providing users with easy access to job listings, personalized search options, direct communication with companies, and the ability to showcase their skills and projects.

4.3 Implementation

4.3.1 Key Library

Server Side:

- **MySQL**

MySQL is a relational database management system (RDBMS) created by Oracle. It is based on structured query language (SQL) and it is the most popular open-source database. It is used in a variety of applications such as data cleaning, data warehousing, e-commerce, and logging applications. It can be associated with any scripting language such as .net. We used it for our application and website because our data has many relations and its elements have specific properties.

- **ASP.NET**

ASP.NET is a powerful server-side web development framework by Microsoft. It enables the creation of dynamic and interactive websites and applications, offering scalability, security, and integration with other Microsoft technologies. It supports multiple programming languages like C and VB.NET, making it a popular choice for web development.

Client Side:

- **Angular JS**

Angular JS is a popular JavaScript framework developed by Google for building dynamic web applications. It follows the MVC pattern and provides powerful features for data binding, dependency injection, and testing.

- **Angular Bootstrap**

Angular-Bootstrap is a component-based library that provides Bootstrap components as Angular components. We used some of these components on our website. like tables, and cards.

● **Angular Chart**

Chart.js is the most popular library used for creating charts. We used this library to show finances on our website.

● **Flutter**

Flutter is a popular open-source framework developed by Google for building cross-platform mobile applications. It enables developers to write code once and deploy it on both iOS and Android platforms, saving time and effort. With its rich set of pre-designed UI widgets, Flutter allows for the creation of visually appealing and highly interactive mobile apps. It also provides a hot reload feature, enabling real-time code changes and instant updates, which greatly speeds up the development process. Flutter has gained significant traction in the mobile app development community for its fast performance, smooth animations, and extensive community support..

4.4 Tools

● **Visual Studio Code**

VS Code is a free code editor. It helps the programmer write code. It is developed by Microsoft and supports the macOS, Linux, and Windows operating systems. VS Code's tools can be used to enhance the functionality of any written code. We use this editor to implement our code.

● **Android IDE**

Android Studio is the IntelliJ IDEA-based official Integrated Programming Environment (IDE) for Android app development. Android Studio provides many features to increase productivity when developing Android applications. it provides a fast and feature-rich simulator. We used its virtual device manager to simulate the application.

- **SQL Server Managements**

SQL Server Management Studio (SSMS) is a powerful tool for managing and administering Microsoft SQL Server. It provides a user-friendly interface for tasks like querying databases, designing tables, and executing advanced operations, enhancing productivity for SQL Server professionals.

- **VS Code**

VS Code is a lightweight code editor by Microsoft, widely used for writing, debugging, and managing code. It offers a customizable interface, supports multiple programming languages, and has a rich ecosystem of extensions..

5 Results and Analysis

We compiled the source code starting from the frontend and then the backend for both the website and the application. We worked step by step to implement each page and make it flexible and easy to deal with the users. And we made sure that everything is working well. before we move to the next step. That helps us a lot to determine where the errors come from. In the final stage, our project fulfilled the requirements related to it. so the user is able to use the application to search for a job and apply for it, they can also post updates and create a CV to showcase on their personal profile. As for the company, it advertises job openings, and the application filters CVs for individuals applying for the job. The company can also view the published posts and user profiles.

5.1 JobsHub

5.1.1 Shared Pages

- **sign in screen**

Before the user can use the app's services, he needs to log in. He will enter his Username and password. if they are correct, this screen will route him to his home page. Sign in screen is for the user and company and Admin. It routes them to their account using their Username's.

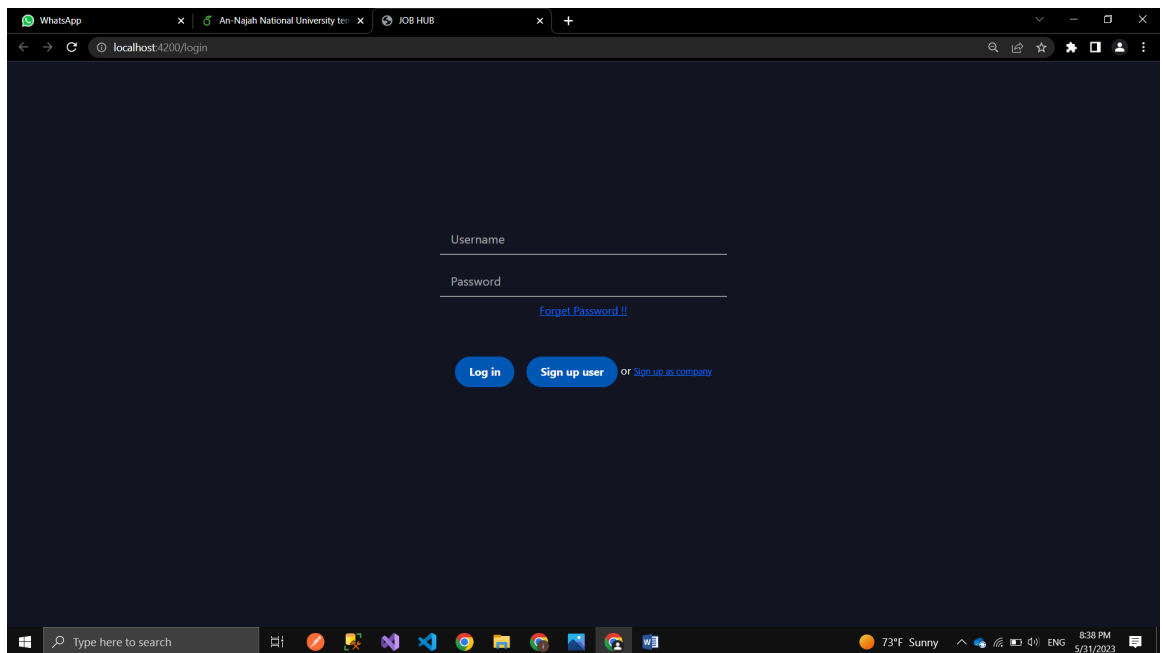
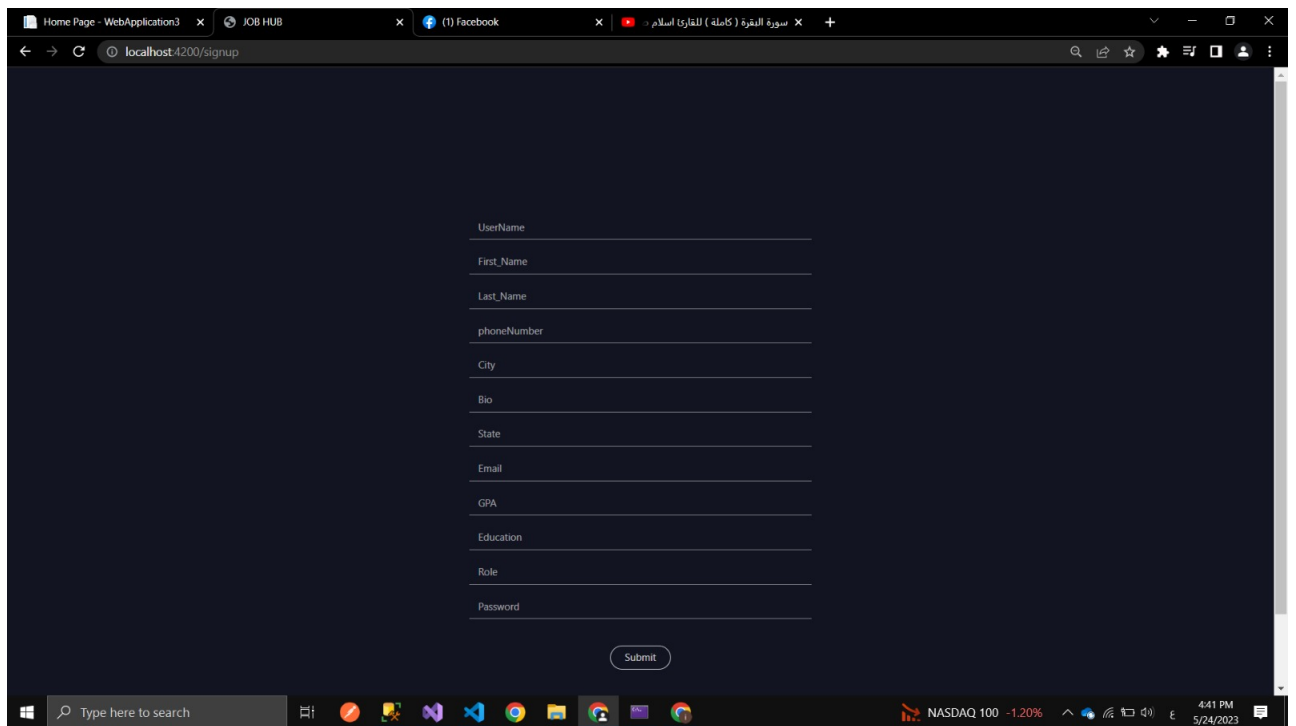


Figure 2: sign in screen

5.1.2 Sign Up Pages

- Job seeker Sign up page

If the user doesn't have an account to log in he needs to register from this page. He should enter his info and click sign up. then he will have an account to sign in.

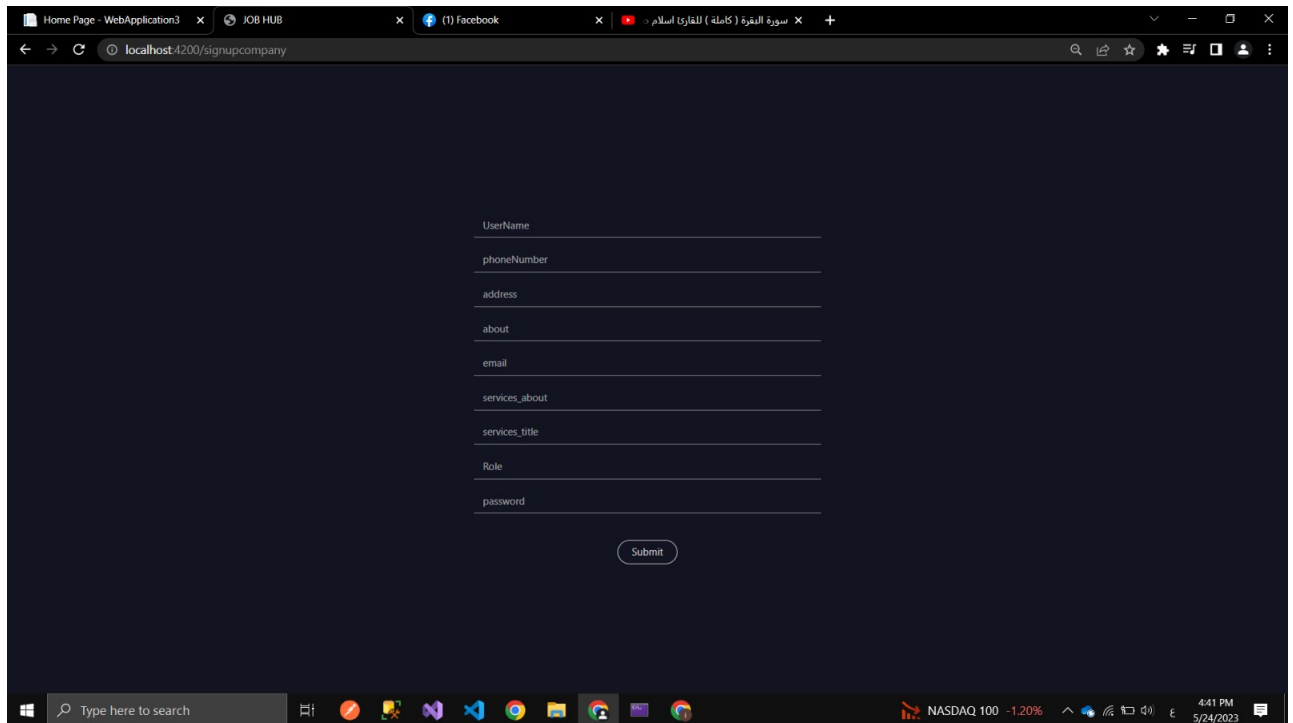


The image shows a web browser window with a dark theme. The address bar displays 'localhost:4200/signup'. The main content area features a sign-up form with the following fields: 'UserName', 'First_Name', 'Last_Name', 'phoneNumber', 'City', 'Bio', 'State', 'Email', 'GPA', 'Education', 'Role', and 'Password'. Each field is represented by a horizontal line. Below the fields is a rounded 'Submit' button. The browser's taskbar at the bottom shows various application icons, a search bar, and system information including 'NASDAQ 100 -1.20%' and the date '5/24/2023'.

Figure 3: Job seeker Sign up page

• Company Sign up page

If the Company doesn't have an account to log in he needs to register from this page. He should enter his info and click sign up. then he will have an account to sign in.



The image shows a screenshot of a web browser window displaying a company sign-up page. The browser's address bar shows the URL "localhost:4200/signupcompany". The page has a dark background and contains a form with the following fields: "UserName", "phoneNumber", "address", "about", "email", "services_about", "services_title", "Role", and "password". A "Submit" button is located at the bottom of the form. The browser's taskbar at the bottom shows the Windows search bar, several application icons, and system tray information including "NASDAQ 100 -1.20%", "4:41 PM", and "5/24/2023".

Figure 4: Company Sign up page

● Home page

In this page, an overview of the website is displayed. Users can also view posts added by individuals and can add their own posts. This page is shown to job seekers, companies, and administrators.

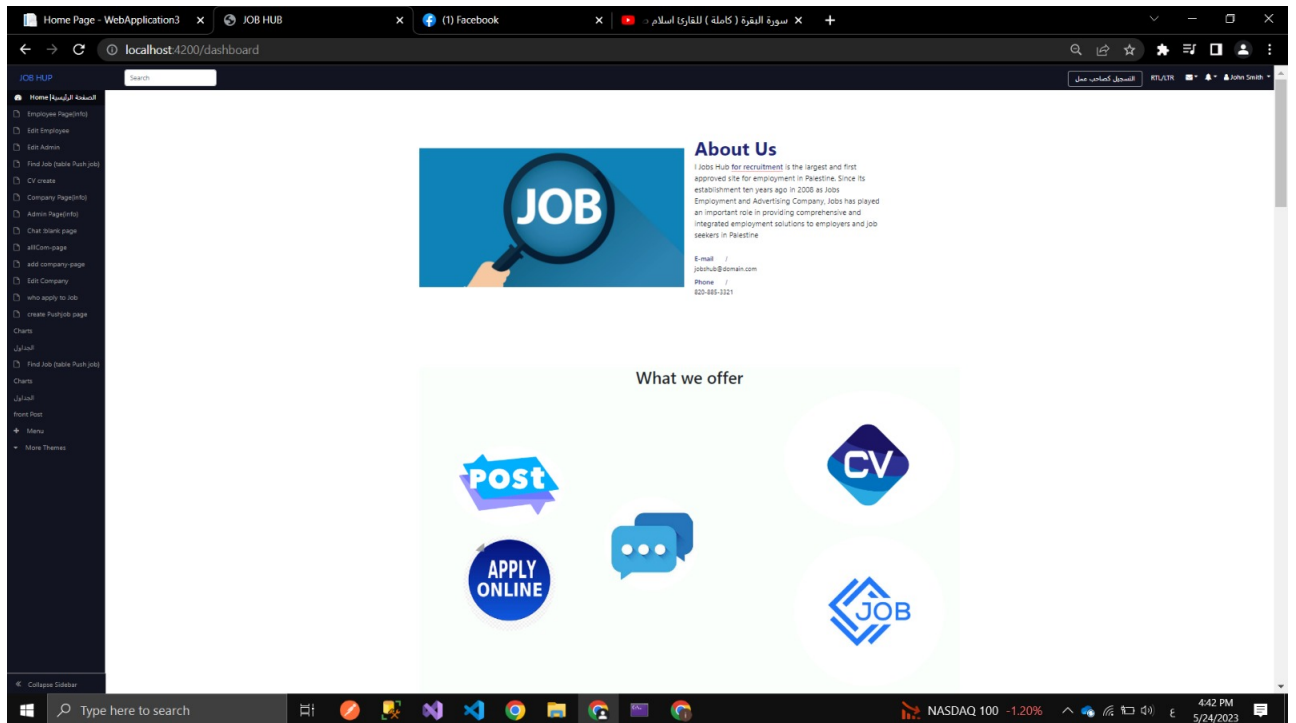


Figure 5: Home screen

On this page, it is evident that users can share posts about their achievements, which will be displayed on the homepage for everyone to see. These posts are also added to the user's personal page.

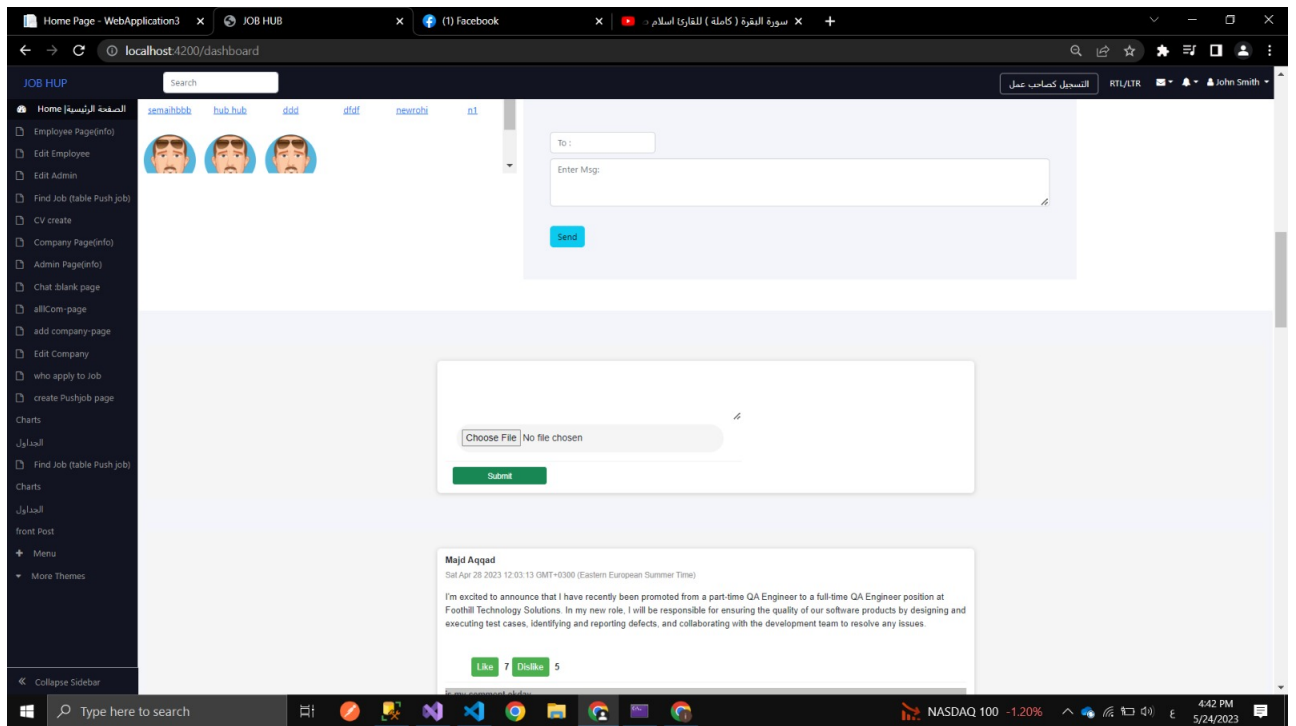


Figure 6: Home screen

On this page, users have the option to add either an image or text, each with its unique format and appearance.

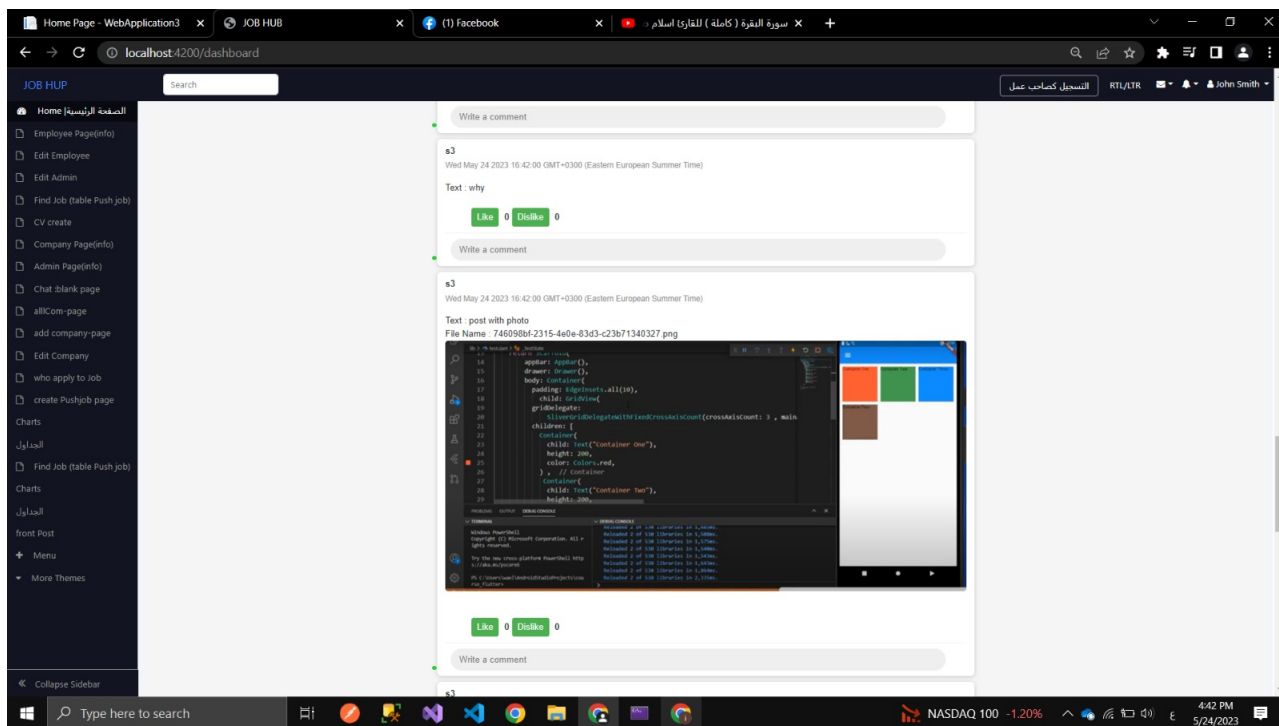


Figure 7: Home screen

5.1.3 Company Account

- Company profile

On this page, company information is displayed, including key details and contact methods. Additionally, the page showcases the services provided by the company. Users have the option to add ratings or comments for the company.

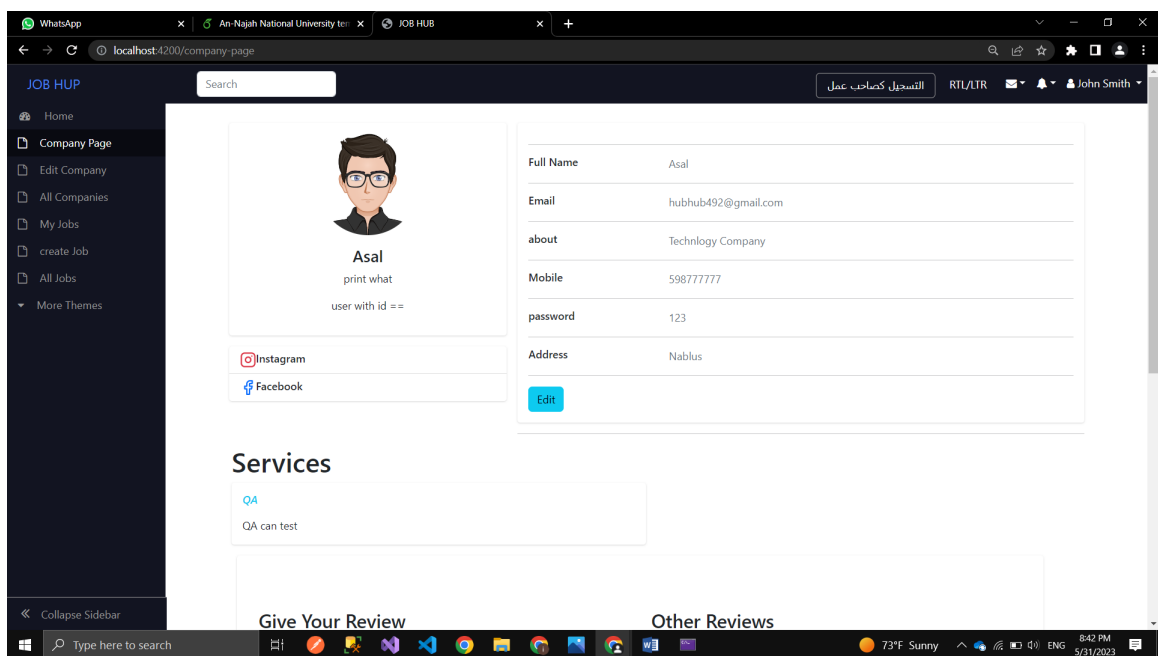


Figure 8: Company profile

● Company Edit profile

On this page, the company has the ability to edit its personal information and change the password.

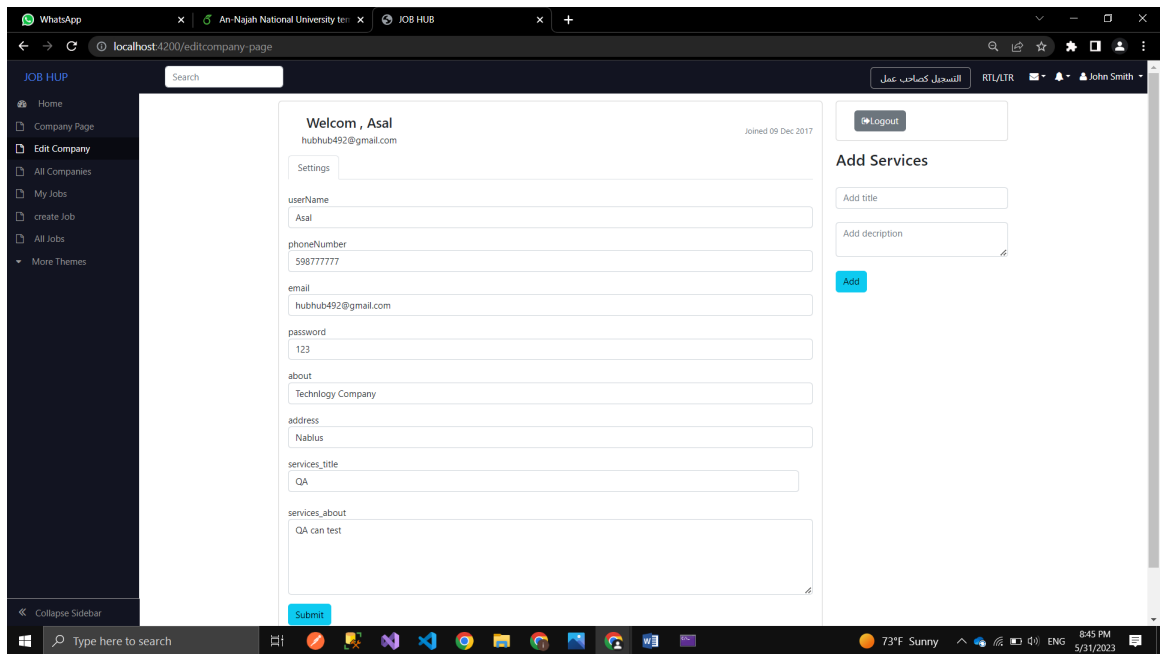


Figure 9: Company Edit profile

● Creat New Job

To advertise a job, the company needs to provide job details and select the field of interest. This field helps the company's advertisement to be visible to individuals interested in that particular job field. The company can also set a deadline for applications, ensuring that no one can apply after the specified time.

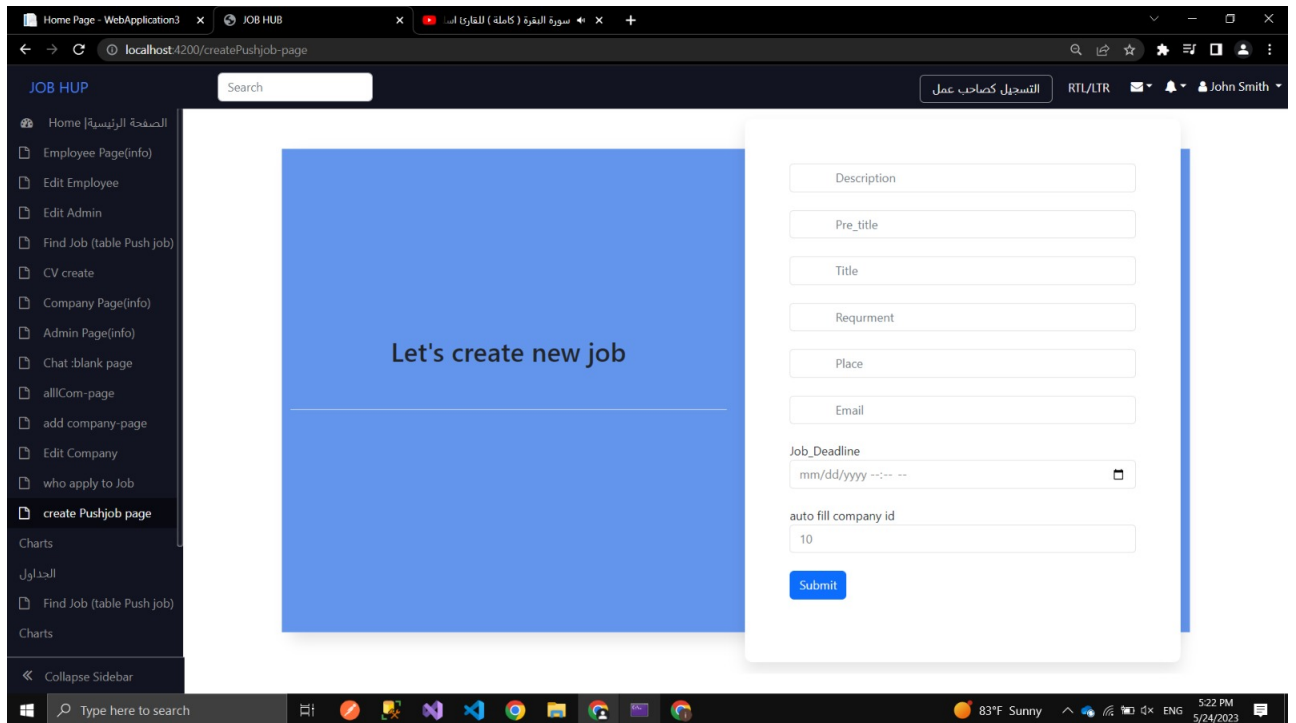


Figure 10: Creat New Job

5.1.4 User's Account

● Job seeker profile

This page displays the CVs of individuals along with their personal information. It contains various details including general information, skills, experiences, and projects they have worked on. It also shows the posts published by the user..

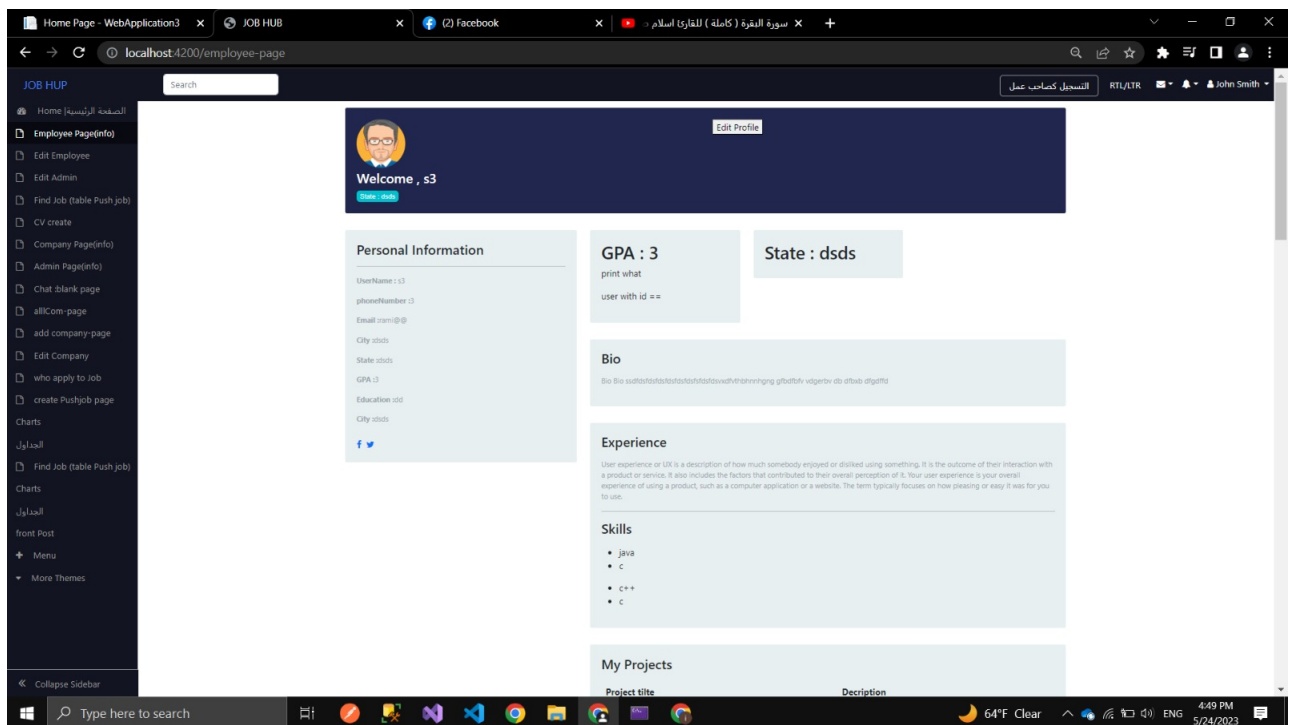


Figure 13: User Account's

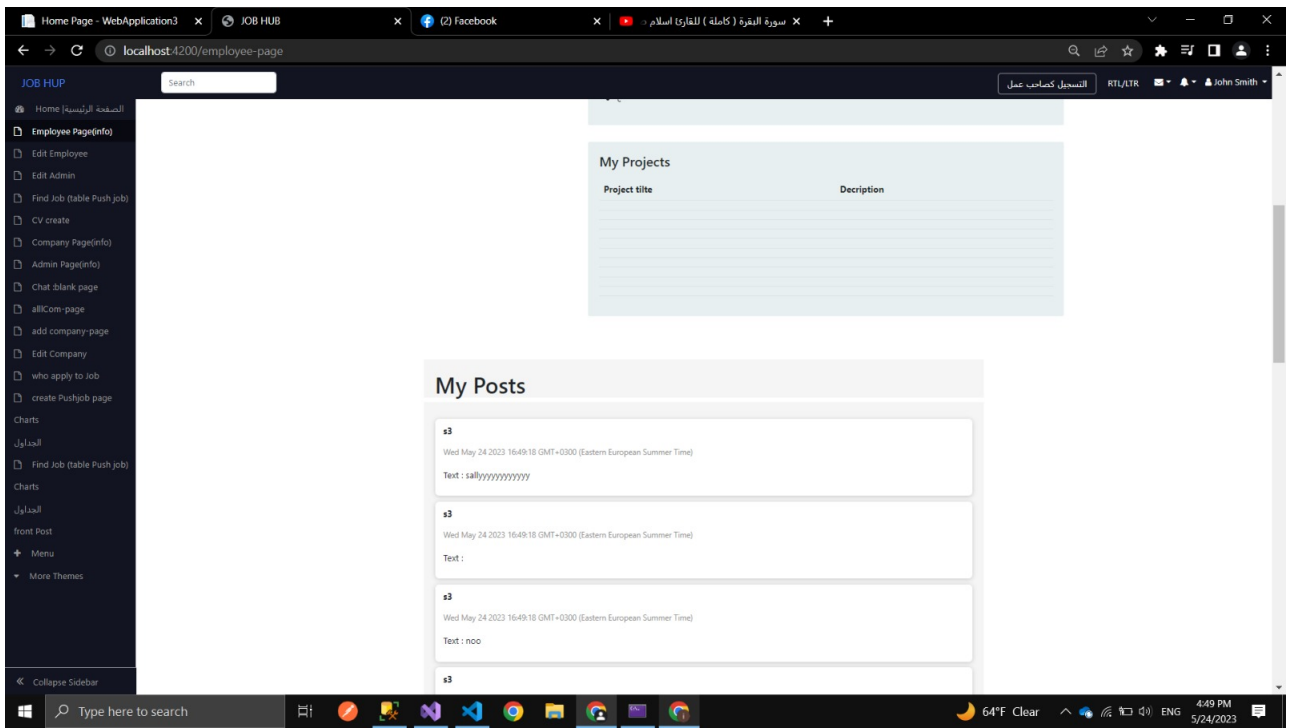


Figure 14: User Account's

● Edit User Account

In this page, the user can edit their personal profile and add the required information. They can also add multiple skills they have learned, projects they have worked on along with descriptions for each project, and their acquired experiences.

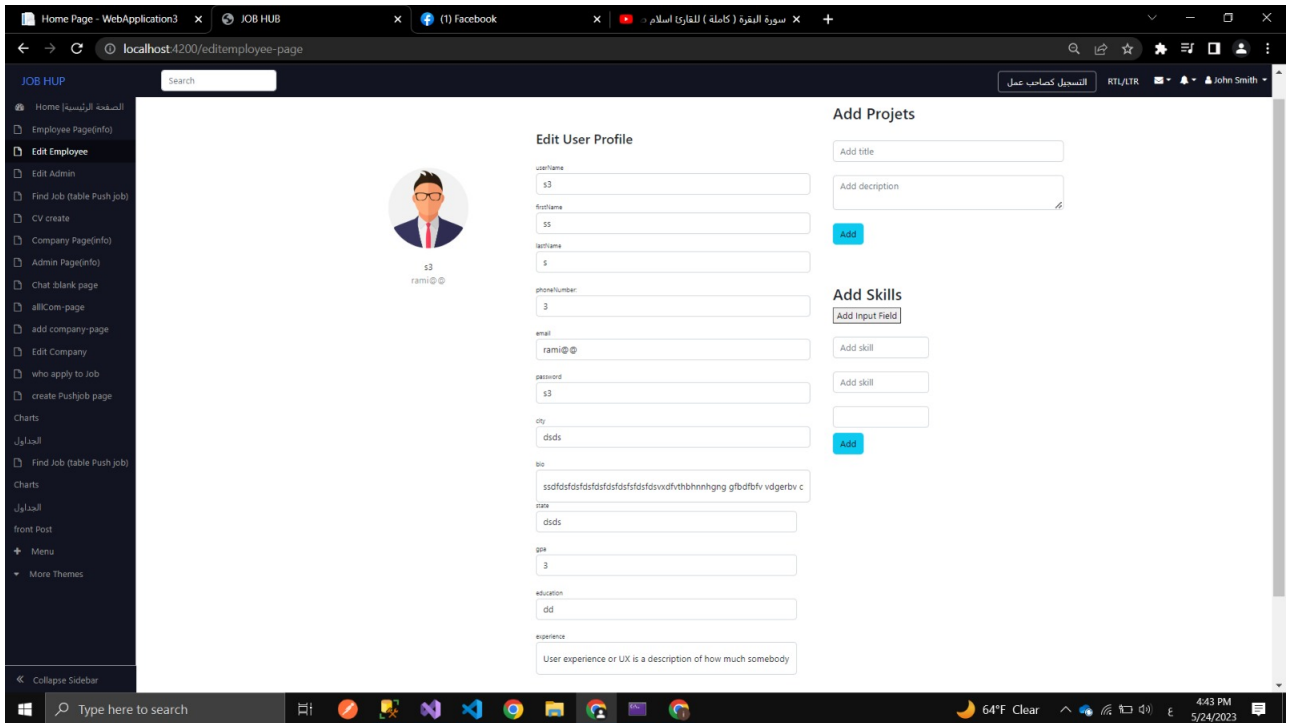


Figure 15: Edit User Account

In this page, it is evident that the user can add multiple skills or projects.

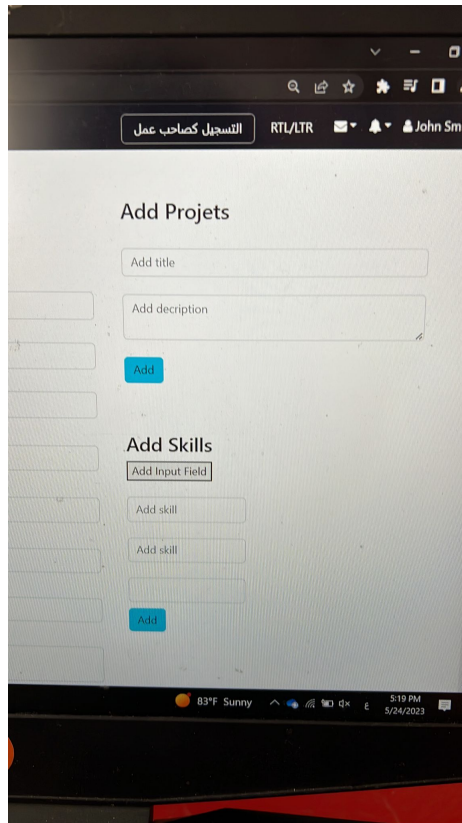
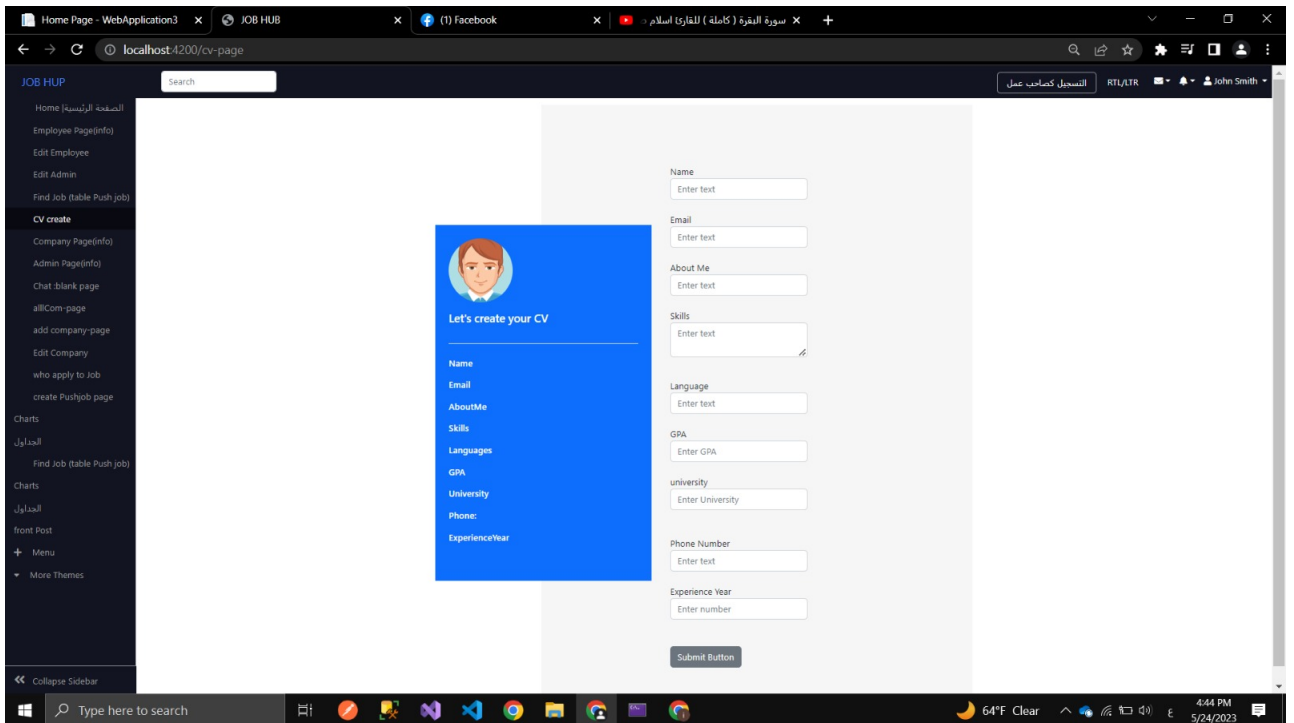


Figure 16: Edit User Account

● Craet CV

One of the features provided by the website is that it allows users to create their own CV (Curriculum Vitae) and download it. To complete this process, the user needs to enter the required information and then download the CV file.



The screenshot displays a web browser window with the URL `localhost:4200/cv-page`. The page features a dark sidebar on the left with a search bar and a list of navigation items. The main content area is titled "JOB HUB" and contains a form for creating a CV. The form is titled "Let's create your CV" and includes a profile picture placeholder. The form fields are as follows:

- Name: Enter text
- Email: Enter text
- About Me: Enter text
- Skills: Enter text
- Language: Enter text
- GPA: Enter GPA
- University: Enter University
- Phone Number: Enter text
- Experience Year: Enter number

A "Submit Button" is located at the bottom of the form. The browser's address bar shows the URL `localhost:4200/cv-page` and the page title is "JOB HUB". The browser's developer tools are open, showing the "CV create" section in the sidebar.

Figure 17: Craet CV

● Find Job Page

One of the key features of the program is the display of advertised job vacancies. Users can view all the jobs that have been posted, which appear in the form of cards containing all the job information. There is also a button that allows users to apply for the job, as well as a button to contact the company via email. Additionally, there is a button that enables users to visit the company's profile page.

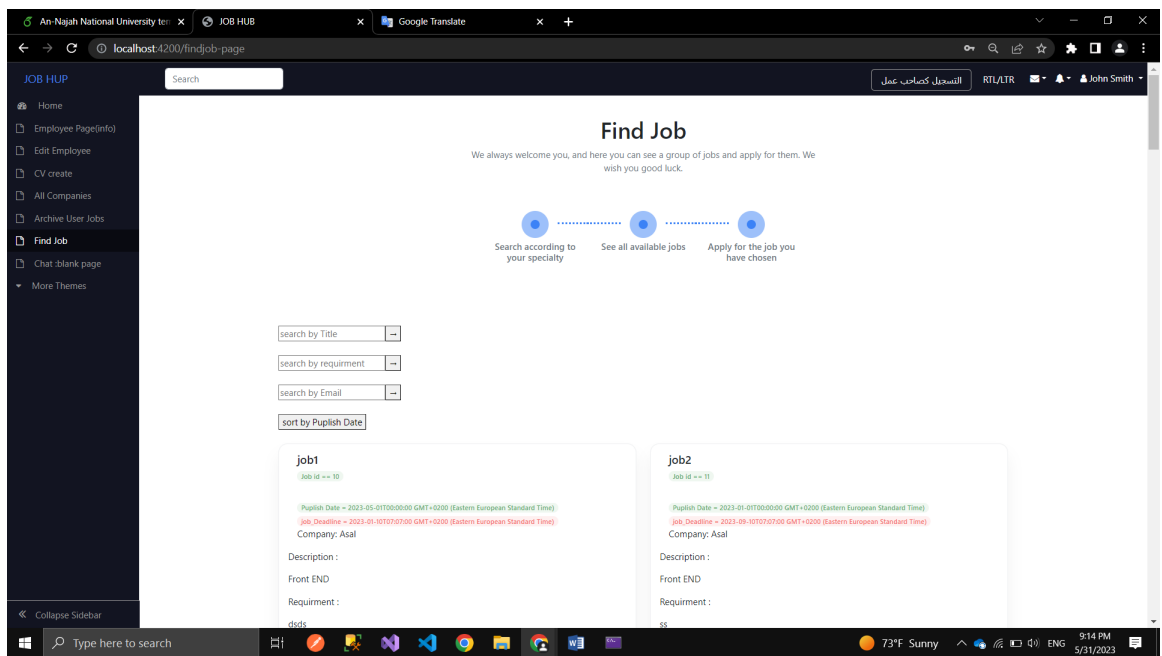


Figure 18: Find Job Page

To enable users to find suitable jobs, there are multiple search engines available for them to search for any information related to the advertised jobs. These search engines allow users to search for specific criteria or keywords that match their preferences or qualifications. This helps users streamline their job search and find relevant job opportunities more efficiently.

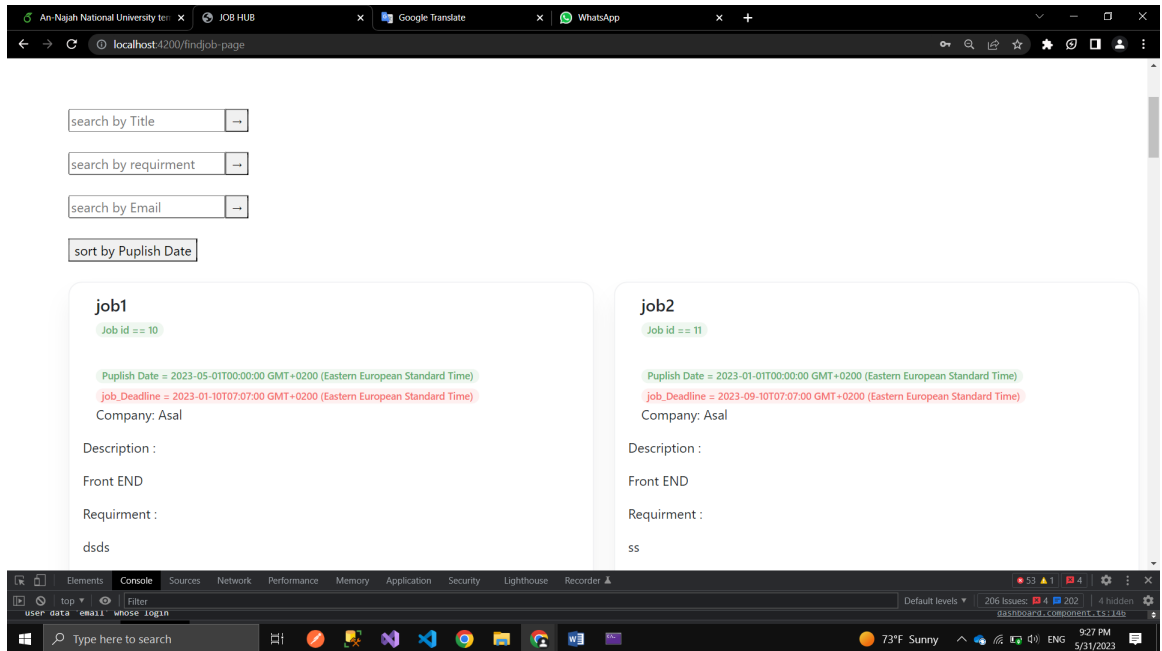


Figure 19: Find Job Page

In this image, the job information is displayed, including the company's email, job title, and job requirements.

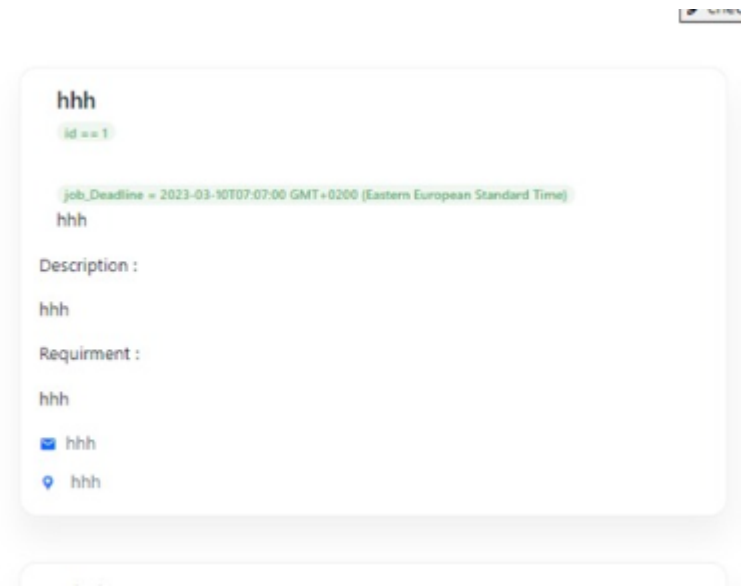


Figure 20: Find Job Page

When you click on the "Apply" button, you will be directed to the bottom of the page where a form is available for you to fill out with your personal information for the job application.

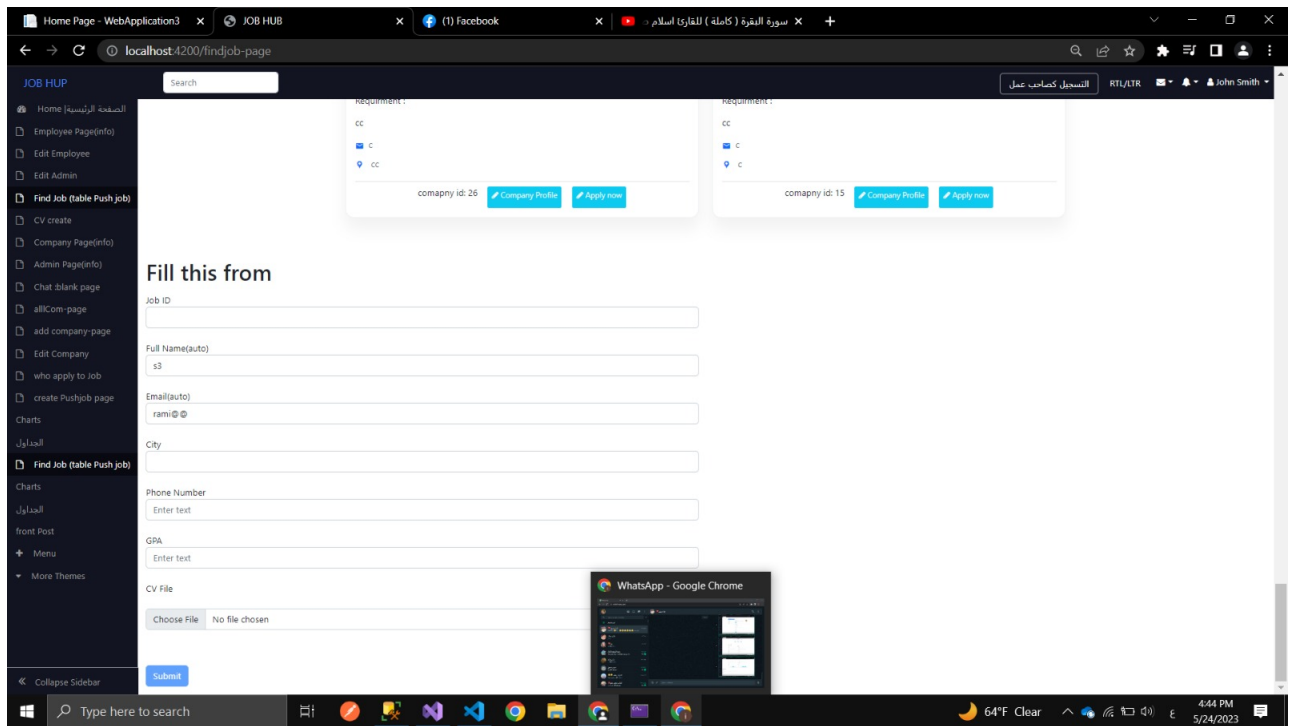


Figure 22: Find Job Page

● User archive

On this page, the user can see all the jobs he has applied for.

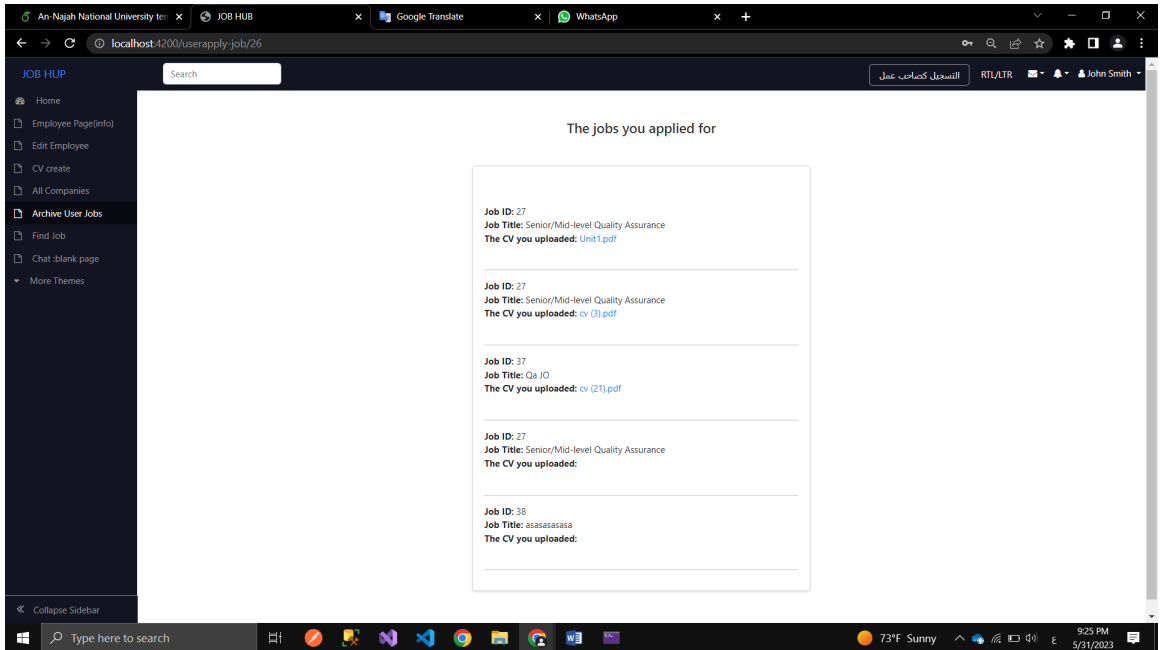


Figure 23: See All Company

- See All Company

In this page, users can view all the companies listed on the website and navigate to their respective personal pages.

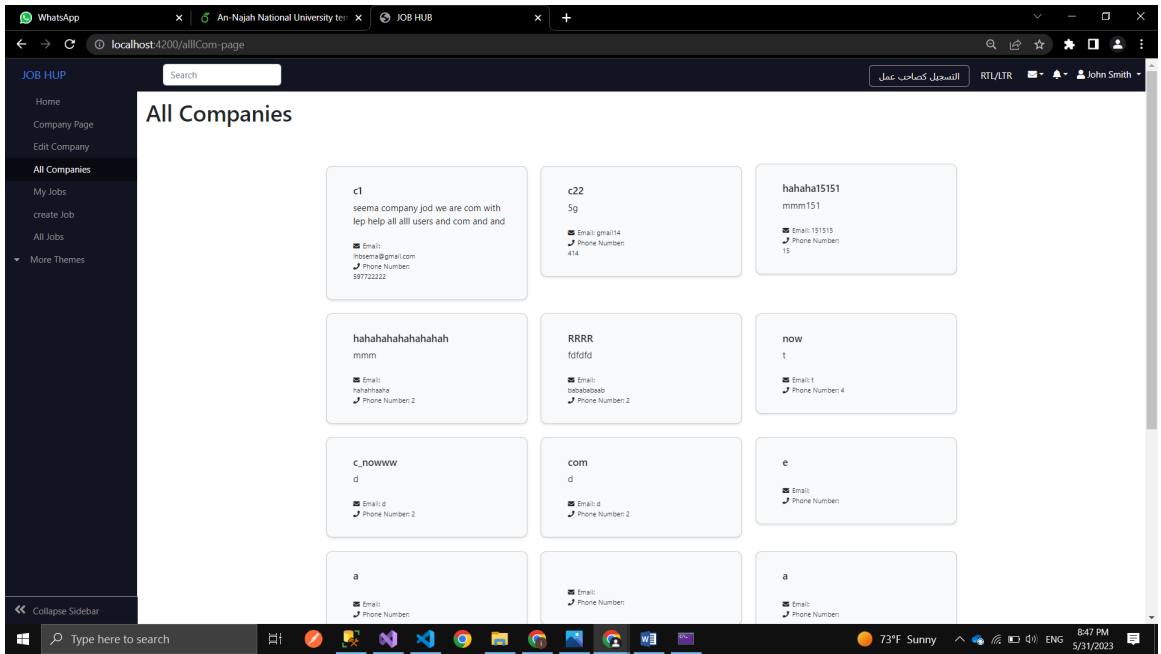


Figure 23: See All Company

● Jobs archive of the company

In this page, the company can see all the jobs it has advertised

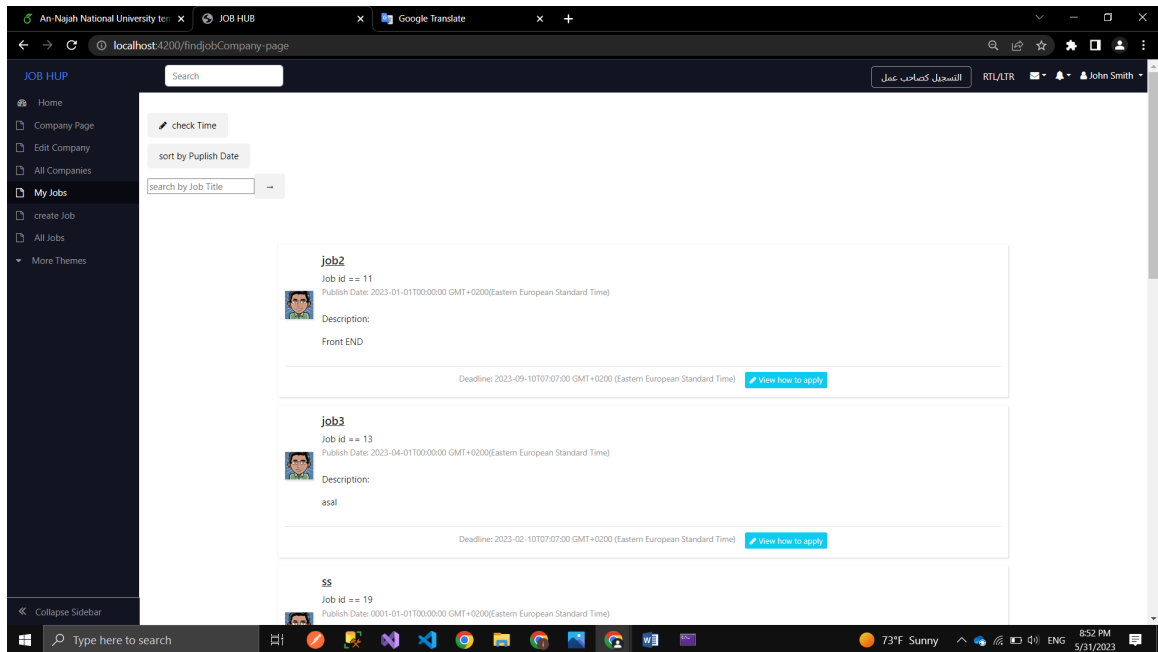


Figure 23: See All Company

In this page, there is a button called "Check Time" that allows company to check the jobs whose application deadline has passed. Once you click the button, the color of those jobs will change to red, indicating that the deadline has expired.

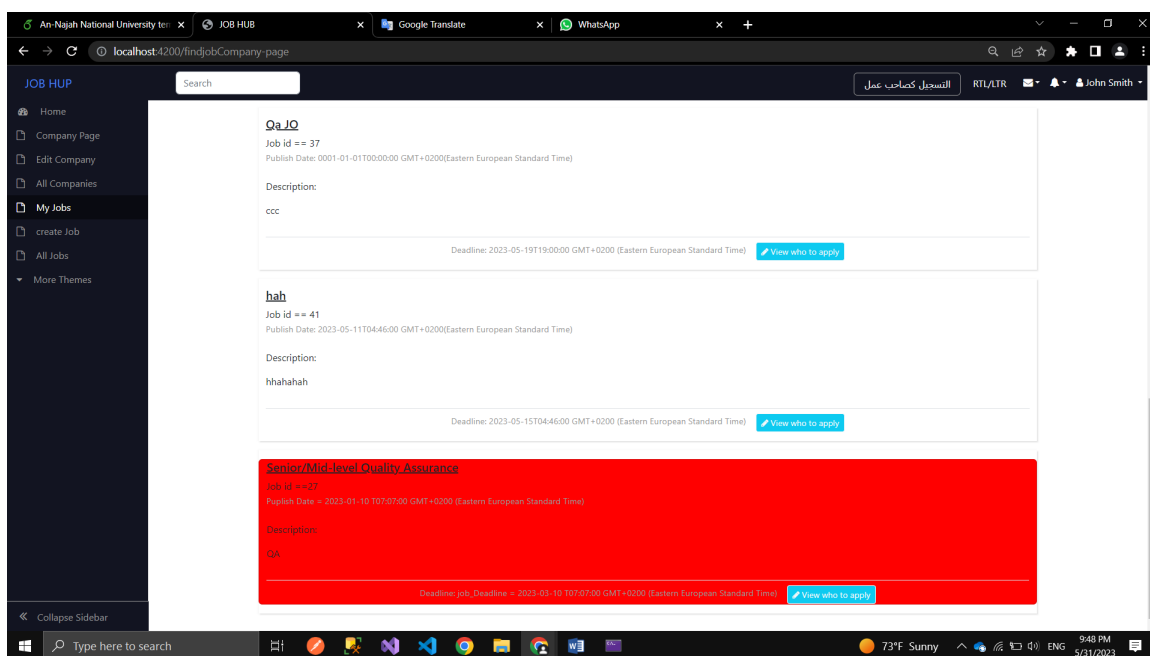


Figure 21: Find Job Page

Also in this page, there is a button called "Sort by publish Date" that allows company to rearranged the jobs from the old to the new job.

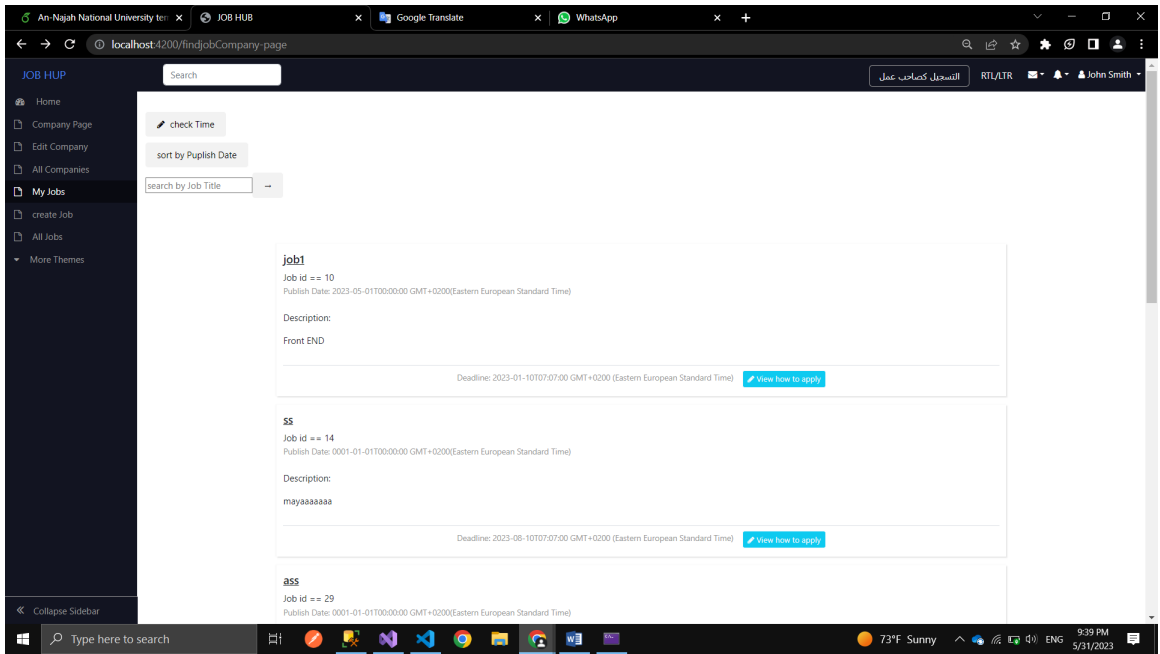


Figure 21: Find Job Page

- **view Who apply to the job**

If company click on "who apply to job " in spcefic job card then it will go to another page. which show all the individuals who have applied to this e job vacancies announced by the company are displayed. There are multiple search engines available to assist the company in filtering the resumes and thereby helping them find suitable candidates.

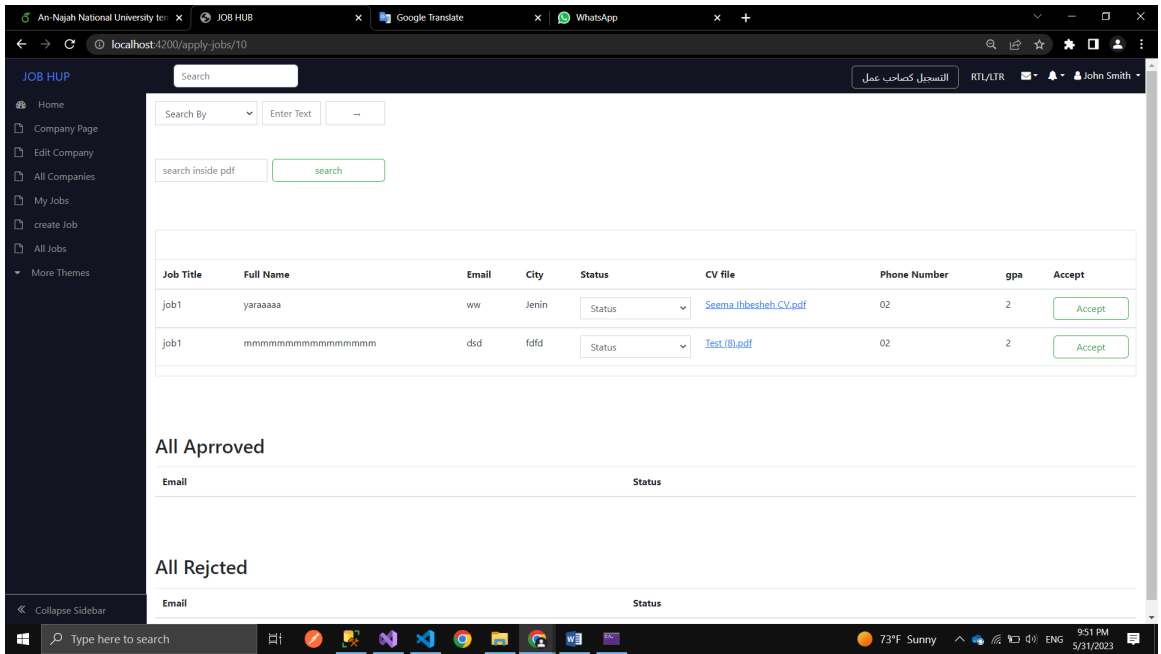


Figure 11: view Who apply to the job

● Company Profile

When clicking on the card, the user will be directed to the company's page where they can view the company's personal information such as email, website, and the services they offer. Additionally, on this page, users can leave comments or reviews about the company.

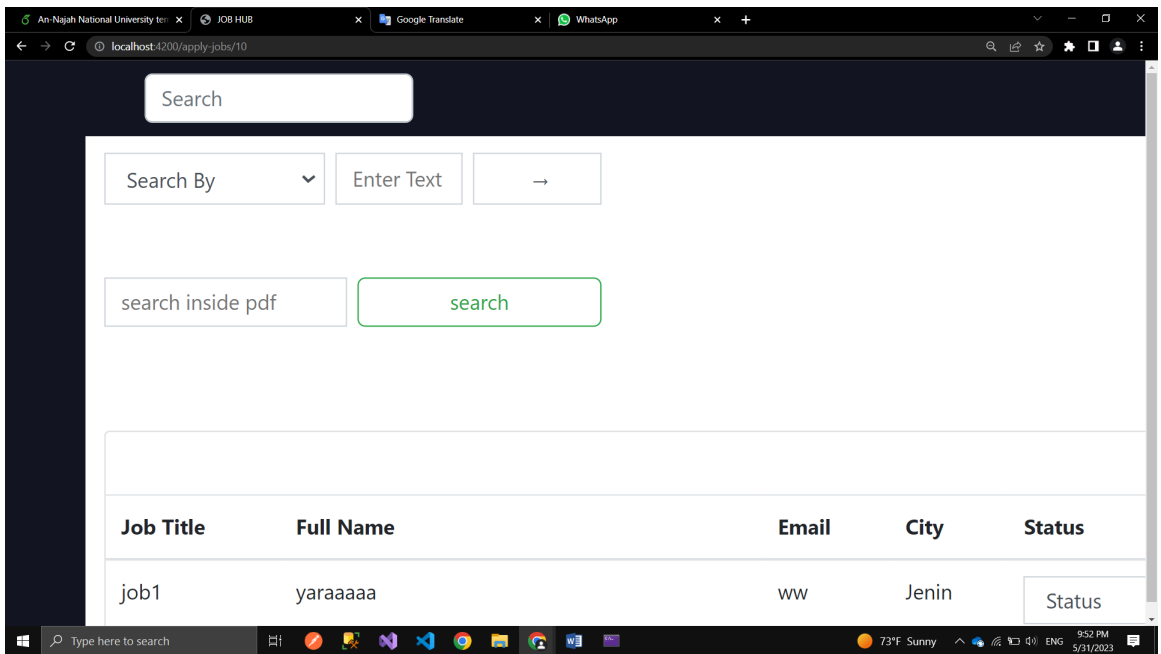


Figure 12: view Who apply to the job

In this image, it shows that users can view all the comments made by other individuals and also have the ability to add their own comments.

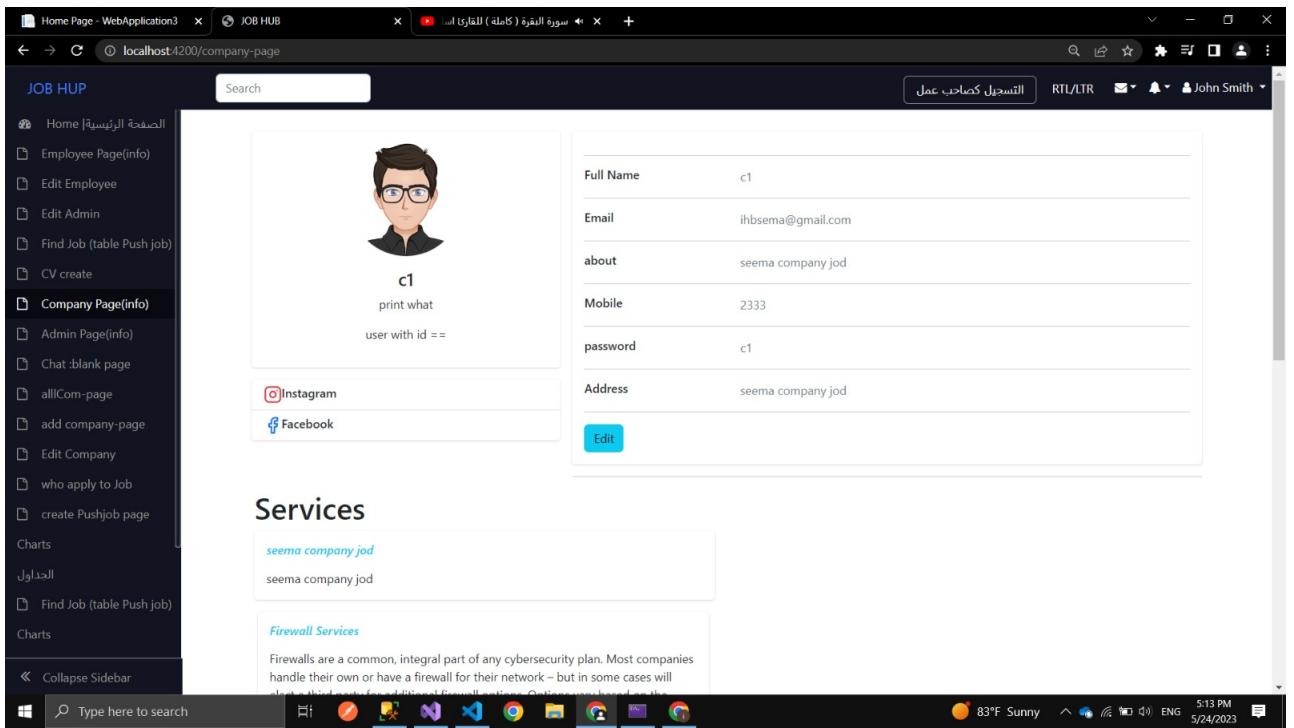


Figure 24: Company Profile

5.1.5 Admin Account

● Admin profile

In this page, general information about the admin is displayed.

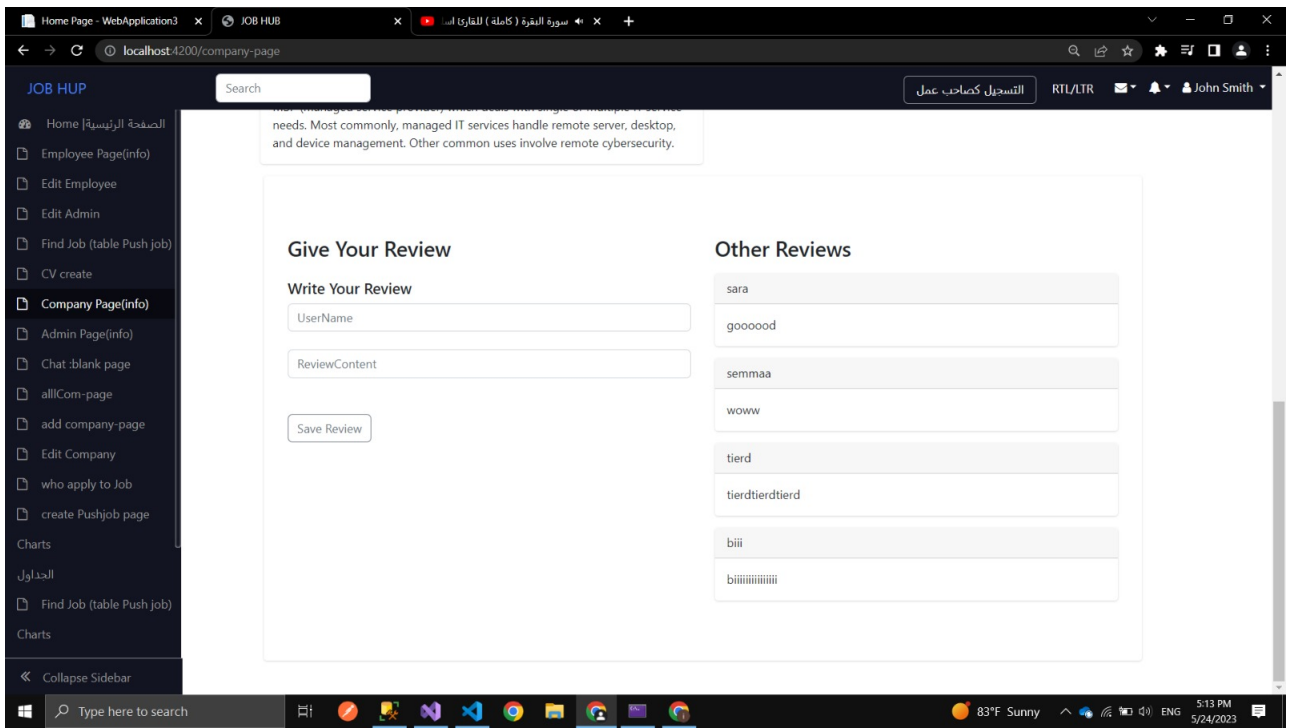


Figure 25: Add review

● Admin Edit profile

In this page, the admin can modify the information they have entered or change their password.

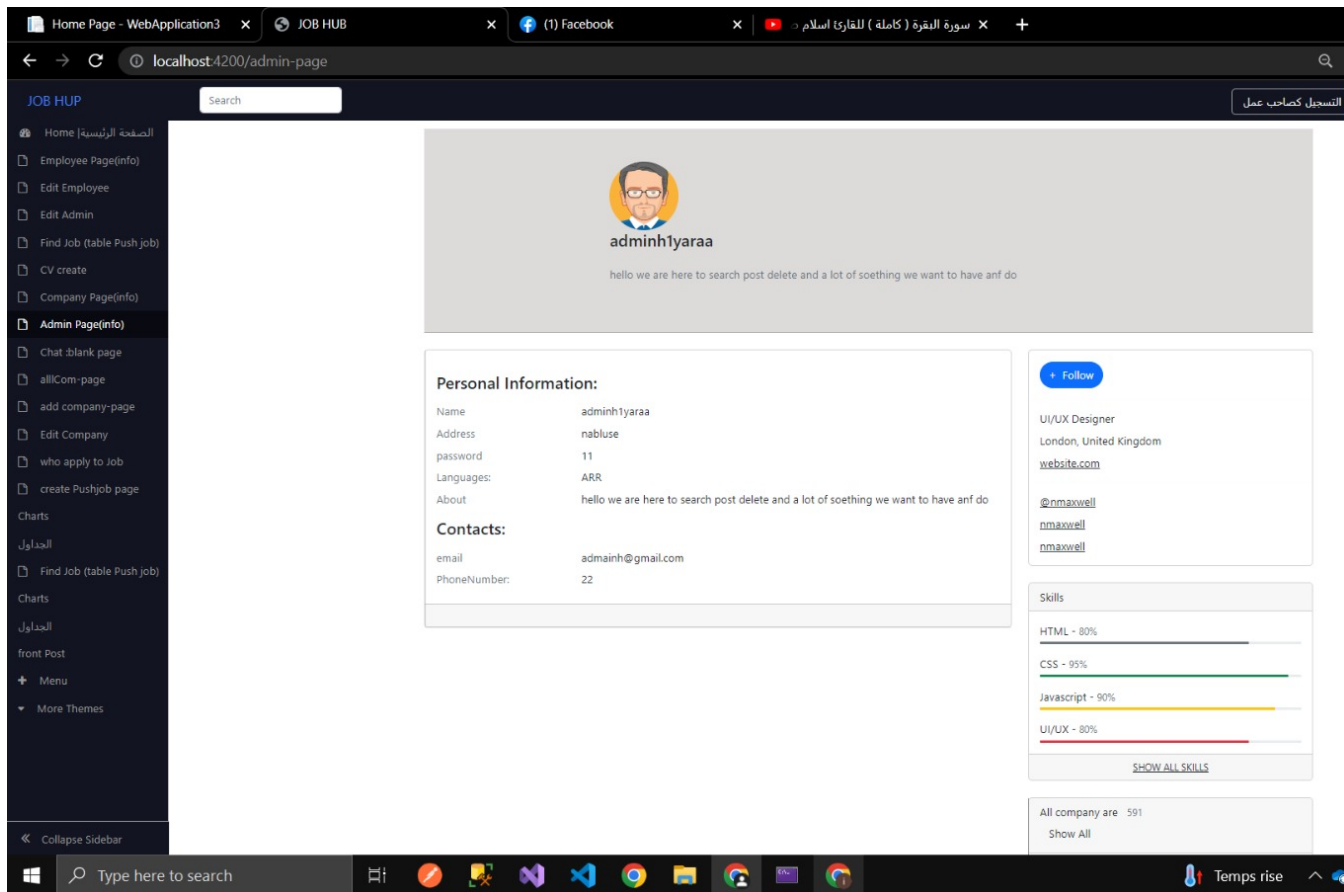


Figure 26: Admin profile

- **view all company**

As an admin, you have the authority to view all companies and can add a new company by using the "Add New Company" button. Additionally, you can delete or modify existing companies as needed.

The image shows a web interface for editing a profile. On the left, a 'Settings' sidebar lists 'Profile Settings' with sub-items: 'Account' (highlighted), 'Password', 'Privacy and safety', 'Email notifications', 'Web notifications', 'Widgets', 'Your data', and 'Delete account'. The main content area is divided into two sections: 'Public info' and 'Private info'. The 'Public info' section includes a 'name' field with 'Username' entered, an 'about' field with 'Tell something about yourself' entered, a profile picture of a man with glasses, and a 'Submit' button. The 'Private info' section includes an 'email' field with 'Email' entered, an 'Address' field with '1234 Main St' entered, a 'phoneNumber' field with 'Apartment, studio, or floor' entered, a 'languages' field, and a 'password' field, all with a 'Submit' button at the bottom.

Figure 27: Admin Edit profile

- **Add new company**

In this page, the admin can add a new company and enter all the necessary information for it.

See all Companys

Search by

اضافة شركة جديدة

company id	Company Name	Email	Phone Number	address	services_title	Accept	reject
5	بروجنير	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
11	فنارسوفت	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
12	نيوسوفت	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
13	هاري	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
14	فونتهيل	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
15	عسل	ق				Edit	Delete
16	java .net	SS@gmail.com	5900000	Ramallah	s	Edit	Delete

Figure 28: view all company

● view All user

As an admin, you have the authority to view all companies and can add a new company by using the "Add New Company" button. Additionally, you can delete or modify existing companies as needed.

The image shows a web form titled "Add new Comany" (sic) set against a dark blue header. The form is contained within a white box with a light blue gradient background. It features ten text input fields stacked vertically, each with a small label on the left: "UserName", "phoneNumber", "address", "about", "email", "services_about", "services_title", "Role", and "password". Below the last field is a blue "Submit" button.

Figure 29: Add new company

● Chart's

In this page, the admin is presented with a chart that displays the percentage of job postings by each company. This allows for tracking the percentage of each job posted for future reference.

See all Companys

Search by

[اضافة شركة جديدة](#)

company id	Company Name	Email	Phone Number	address	services_title	Accept	reject
5	بروجنير	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
11	فئارسوقت	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
12	نيوسوقت	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
13	هاري	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
14	فونتهيل	SS@gmail.com	5900000	Ramallah	s	Edit	Delete
15	عسل	ق				Edit	Delete
16	java .net	SS@gmail.com	5900000	Ramallah	s	Edit	Delete

Figure 30: view All user

5.1.6 Job's Hub application

● login screen

In our application, only job seekers are allowed to use the app. If a user has an account, they can log in through this page. There are security measures in place, such as entering a username and password. Additionally, users have the ability to view their password.

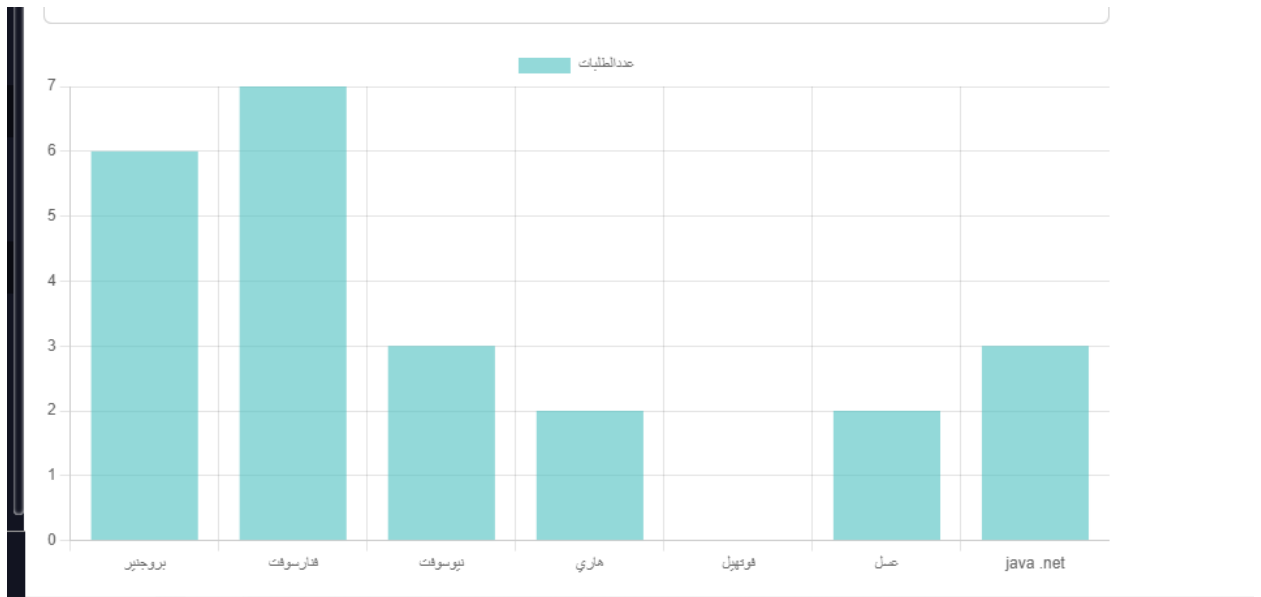


Figure 31: Chart's

● Sign Up Screen

In our application, only job seekers are allowed to use the app. If a user has an account, they can log in through this page. There are security measures in place, such as entering a username and password. Additionally, users have the ability to view their password.

Furthermore, there are restrictions on all fields, ensuring that registration is only possible by entering all the required information. Moreover, access is granted only after successfully passing the password field examination, which involves verifying the correctness of the entered password and its confirmation.

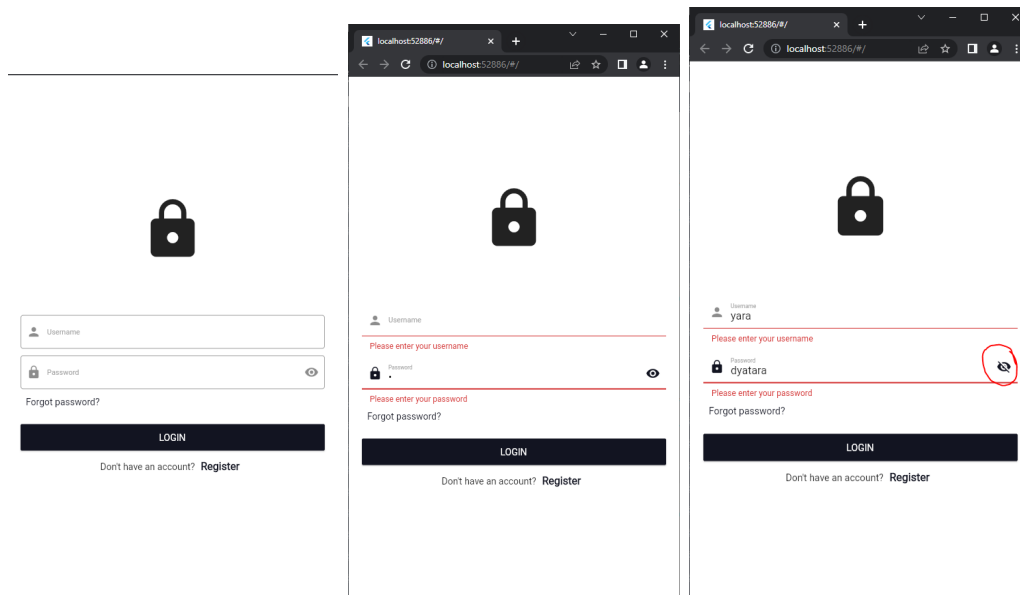


Figure 32:login screen

● Home Screen

On the homepage, users can view all the job vacancies that have been advertised by companies.

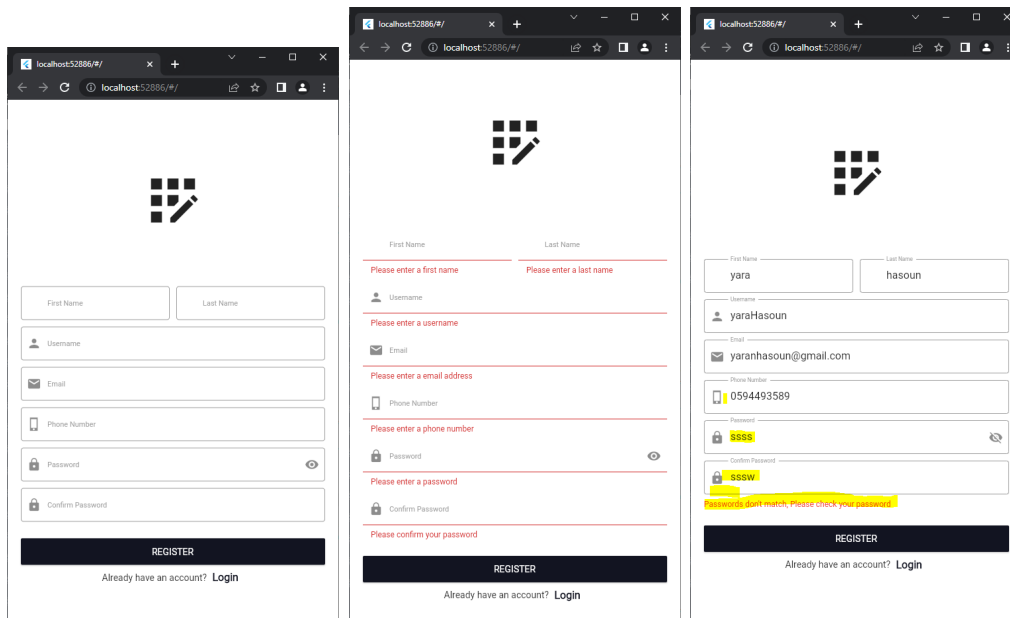


Figure 33: Sign Up Screen

● Apply to Job

After clicking on the "Apply" button for a company, the user will be directed to this page and will be required to enter all the necessary information.

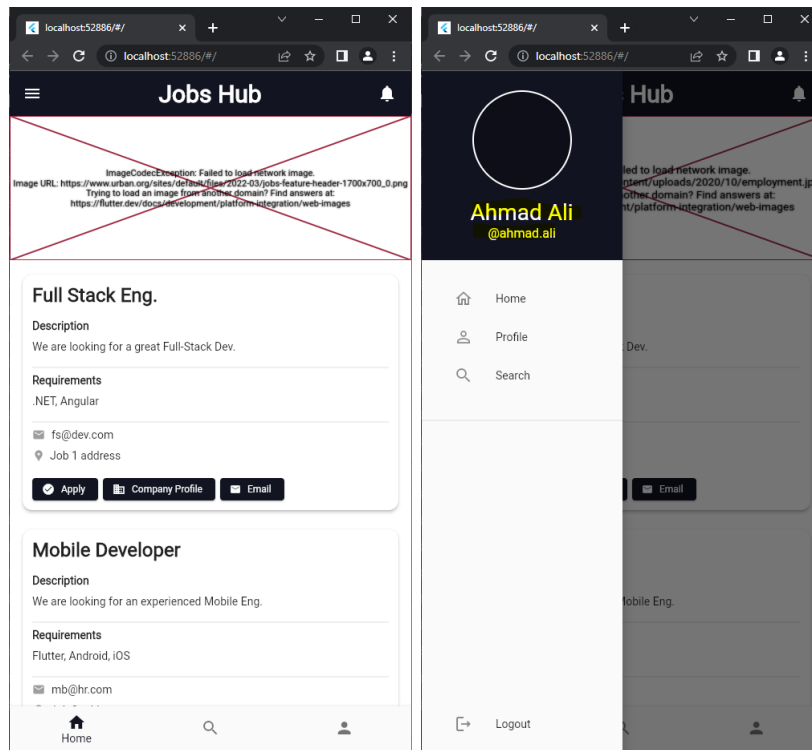


Figure 34: Home Screen

● Search Screen

On this page, users can search for any information within the added job listings.

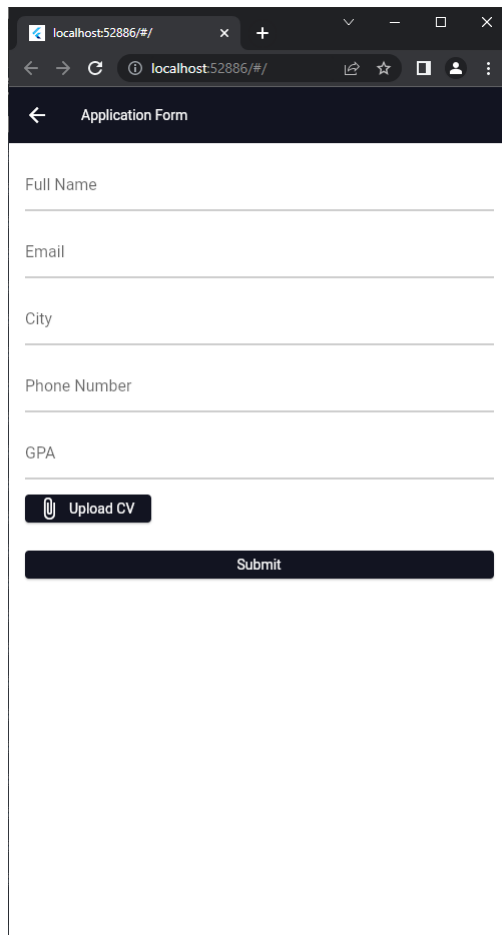


Figure 35: Apply to Job

● Profile screen

On this page, the person can view the primary information of the user, and they have the option to edit this information by clicking on the "Edit Personal Information" button. They can add all the required details and also change their password if needed.

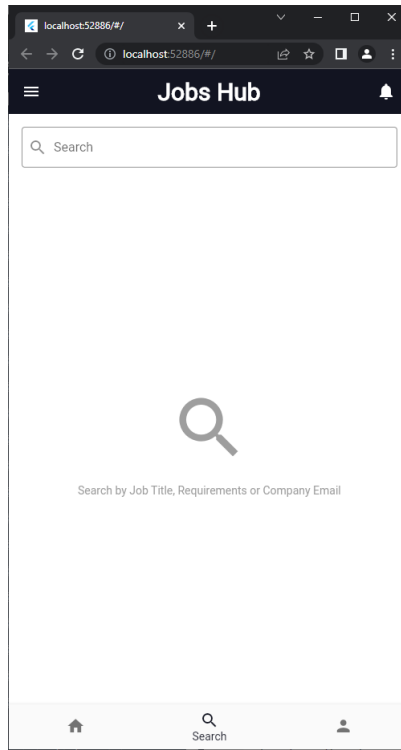


Figure 36: Search Screen

On this page, individuals can showcase their skills and experiences. They have the ability to add and modify their experiences, as well as add multiple skills to their profile.

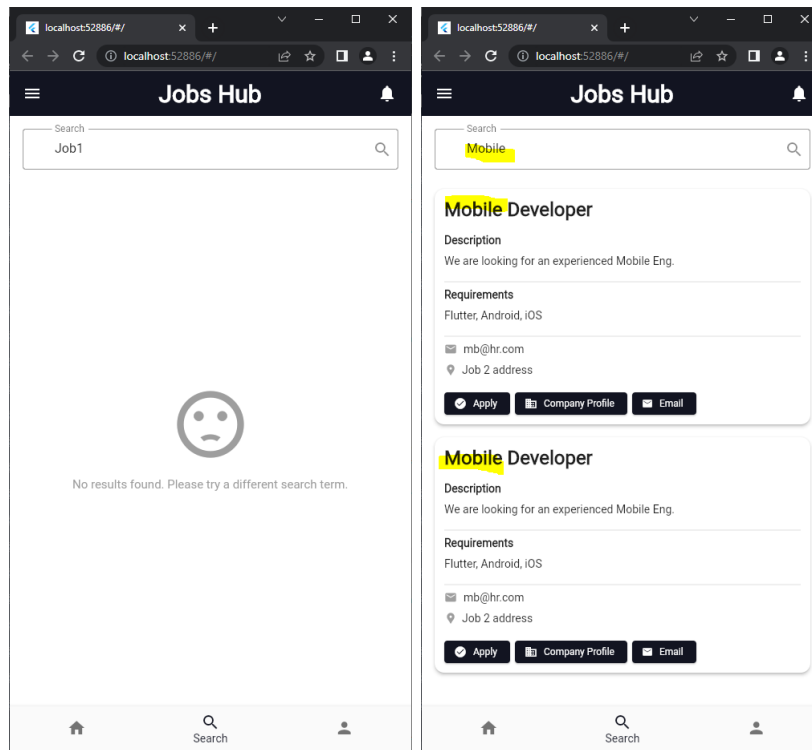


Figure 37: Search Screen

On this page, the person's projects are displayed, and when clicked, the project is shown in full detail to others, including all relevant information. Additionally, the individual has the ability to edit and add details to existing projects or add new projects.

6 Conclusions and Recommendation

With the improvement and increase in smartphone sales over the past several years, people utilize mobile applications to accomplish their tasks and make their lives simpler. Applications for smartphones may be found in a variety of categories, including entertainment, education, health, etc. In our project, we have created an application that benefits both job seekers and companies in the following ways:

1. For job seekers: - It allows job seekers to find multiple job opportunities and submit job applications. - It enables them to create a resume and showcase their achievements on their personal page. - They can view all available companies and browse their personal pages. - They can add evaluations for the companies they have interacted with. - They receive notifications about newly added jobs. - They can view job listings based on their areas of interest.

2. For companies: - It enables companies to advertise their available job positions. - The application filters job listings based on specified criteria. - Companies can send acceptance messages to applicants via email. - They can view posts published by individuals. - They can view personal pages of users.

These features are provided in the application to serve the users and facilitate the job search and recruitment process.

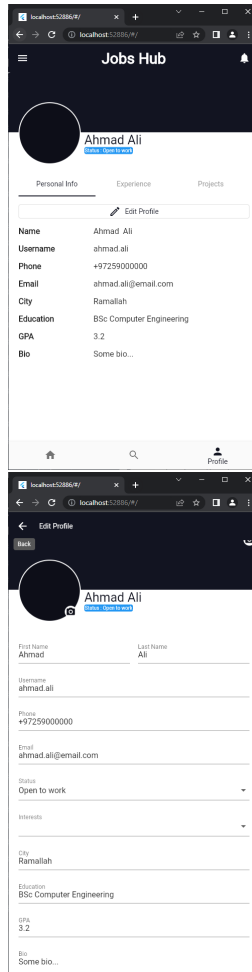


Figure 38: Search Screen

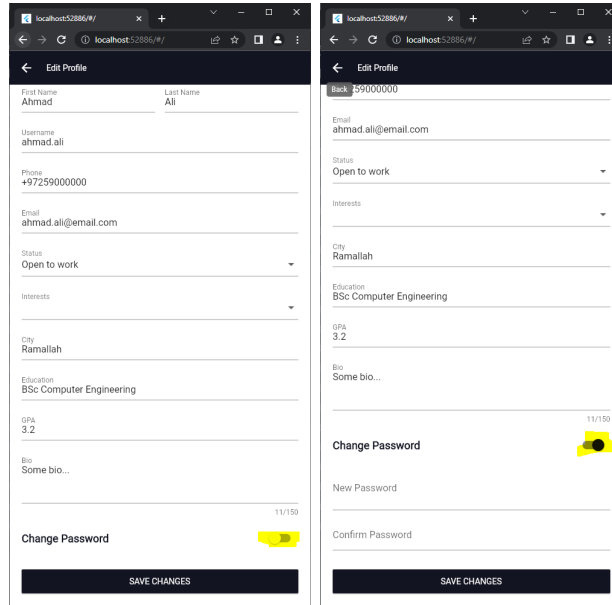


Figure 41: Figure 39: Search Screen

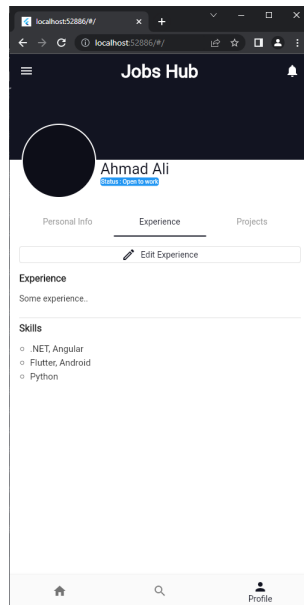


Figure 40: Search Screen

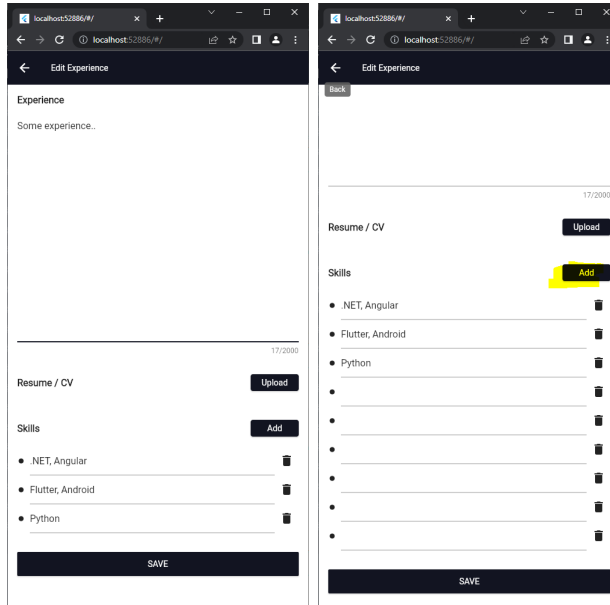


Figure 41: Search Screen

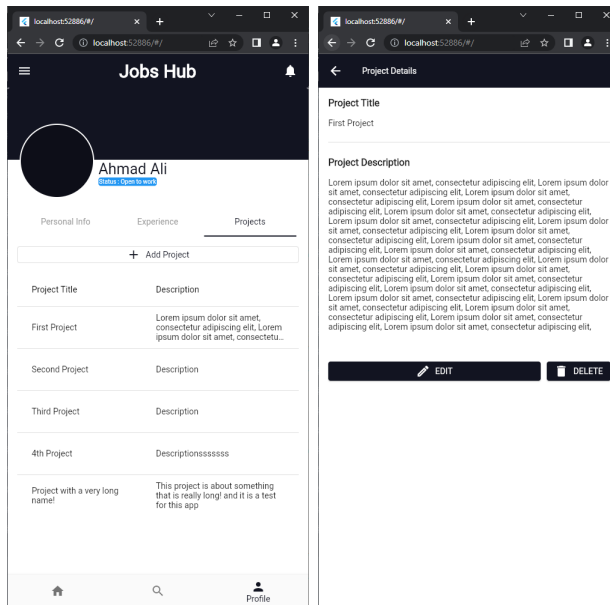


Figure 42: Search Screen

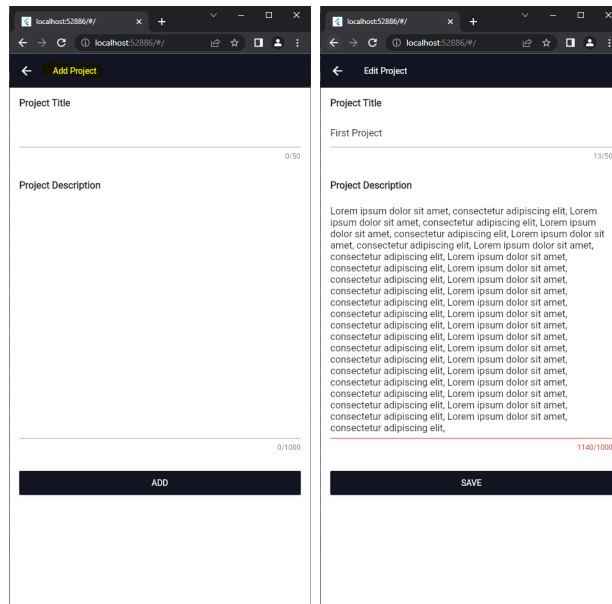


Figure 43: Search Screen