



**An-Najah National University**

Faculty of Engineering & Information Technology

Presented in partial fulfillment of the requirements for Bachelor  
degree in Computer Engineering

**Graduation Project 1**

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**HIRE ME WEBSITE AND MOBILE  
APPLICATION**

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## **Acknowledgment:**

Praise be to God, Lord of the Worlds, who enabled us to complete this research. In it, we mention in particular thanks and gratitude to our families who have supported us at this stage. We would like to express our sincere thanks to An-Najah National University and the administrators and general supervisors. In particular, we owe a lot of gratitude to the Department of Computer Engineering, which has nurtured us over the past years. We would like to thank the virtuous Dr. Sufyan Samara, who supervised this project and provided us with every effort through his guidance based on encouragement, advice, and guidance.

We cannot fail to extend our sincere thanks to everyone who contributed to completing the Graduate Project, whether by refining it or revising it. We also extend our sincere thanks to all of our friends and colleagues who provided assistance and assistance during the preparation of this Graduate project.

**Disclaimer:**

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## **Abstract:**

Recruitment is considered a key factor influencing the development of a competitive advantage. These days, there is a high demand for workers. The challenge of selecting qualified people from the applicant pool is getting more challenging as the market gets more competitive. Furthermore, it has become imperative to understand how to draw in the top candidates.

Employers and job searchers can connect through third-party recruitment websites that offer Internet-based recruitment services (referred to as "job search websites"). Job-search websites give employers direct access to an extensive resume database, which shortens the recruiting cycle. Job searchers can upload their resumes online and hunt for jobs by evaluating a constantly growing database of openings by using job-search websites.

Here, these websites can help companies and job seekers find efficient solutions while overcoming obstacles related to time and location. They can also be convenient and cost-effective. While hiring through a company or job search website is like hiring through more traditional methods in many ways, there are also some differences.

Websites, for example, enable the sharing of nearly infinite company information in various formats. Another issue is that job advertising websites make it simple for potential employees to compare multiple employment offers. Then, they can select the one that most closely fits their requirements and qualifications.

This project aspires to provide a website and mobile application to make it easy to find a job with little effort. For the project to be able to compete with other sites, which are growing rapidly, especially with the tremendous development of artificial intelligence, it will be provided with: the presence of paid accounts for the company's, sending a notification through the email for all registered users, filtered CV and evaluation of it.

The job search website includes features:

- Advanced search functionality with filters and sorting options to refine job searches.
- Detailed job listing pages; displaying job descriptions, requirements, and application instructions.
- Seamless integration with XAMPP database for efficient data management and retrieval.
- Responsive design to ensure optimal user experience across various devices.
- This project aims to provide a robust and user-friendly job search platform that effectively connects job seekers with relevant job opportunities and empowers employers to streamline their recruitment processes.

# Chapter 1:

## Introduction:

### **1.1 General Background**

Finding jobs continues to be a laborious task. Every time we look for a job, we come across certain results that are not particularly pertinent. In order to discover a position that suits us, we must manually go through those results and apply. We frequently overlook certain job posts since they do not show up in the searches. This is also a challenge for recruiters. Because the search terms used by recruiters differ from the keywords included in their resumes, they are not seeing the same results when they look for a certain specialist. Therefore, in order to address this issue, we use technology to post jobs, search for employment, fill out resumes, and publish jobs.

### **1.2 Objectives**

This project aspires to provide a website and mobile application to make it easy to find a job with little effort, Advanced search functionality with filters and sorting options to refine job searches, the primary goal of this project is to simplify and enhance a way to find the best job for user and to make it easy to filtering CVs for companies.

### **1.3 Organization of the Report**

The report's organization aims to give readers a thorough grasp of the Hire me website and Mobile app. Chapter 2 explores the theoretical Background and previous studies after this introduction, laying the foundation for this project.

The platform's development process is described in Chapter 3. In Chapter 4, discussion and results are presented, providing an understanding of the project's results.

In Chapter 5, recommendations and conclusions are combined to give a comprehensive summary of the project's journey.



# Chapter 2

## Theoretical Background and Previous Work

### **2.1 Theoretical Background**

#### **2.1.1 Job Search Website**

Job search website management involves implementing strategies and practices to deliver an exceptional user experience while efficiently connecting job seekers with suitable employment opportunities.

#### **2.1.2 Digital Platforms**

The spread of digital platforms has completely changed how services are delivered and made accessible. By offering services like employment, meeting scheduling, and customized user experiences, these systems allow easy communication between customers and service providers. Understanding the dynamics of digital platforms is crucial to developing creative solutions that meet the evolving needs of users.

#### **2.1.3 User Experience Design**

User experience (UX) design's main goal is to create engaging and easy-to-use interfaces that maximize user interactions with digital products and services. There are three UX design principles: usability, accessibility, and visual hierarchy have a big impact on how people generally use the Customizable Service Provider Platform. User-centric design aims to achieve its fundamental goal by designing interfaces, services, and products with the end user in mind. Providing a satisfying and happy user experience is the primary goal. The platform aims to enhance user experience and engagement by implementing user-centric design concepts.

## 2.2 Previous Work and Literature Review

We investigated and covered a wide range of themes, including user experience, how well candidates are matched to jobs, how technology affects job search behavior, and more, to create the finest job search website architecture. This is an overview of our findings:

Research on job search websites is extensive, covering various aspects such as user experience, effectiveness in matching candidates with jobs, the impact of technology on job search behaviors, and more. Here's a brief overview of some previous work on job search websites:

The primary objective of information-driven websites is to give users access to current and pertinent content in line with organizational objectives. The assessment of a website's user experience is different from that of transactional online applications, such e-banking, e-commerce, or travel, because project success depends on factors like aesthetics, content, trust, and persuasion in addition to usability and accessibility. But because user experience is a new profession with a variety of frameworks and approaches, it's important to assess which have been employed in the past[1], user experience on job search websites often involve elements such as search functionality, usability, design. In order to identify areas that require development and to gain a better understanding of how users engage with these platforms, and this techniques that including user testing, surveys, and interviews, and you may improve the user experience by include tools like salary comparison, interview prep tips, and resume generators.

Website Design :Aesthetic Appeal Visually appealing designs can attract users and make the job search process more pleasant ,Consistency Consistent design elements across the website help users understand and navigate the site more intuitively, Usability :Ease of Use Websites should be straightforward and easy to navigate, allowing users to find job postings without unnecessary complexity, Advanced Search Options: Features such as filters, keyword searches, and location-based searches can help users narrow down job listings ,and Relevance of Results The search algorithm should return relevant job listings based on user queries .through a sequential mediation of usability and enjoyment, we find a consistent beneficial influence of website visual design on website[2].

Match Accuracy: More advanced algorithms that take user preferences, experience, and skill levels into account produce more accurate job applicant matches.

Mobile apps are a necessary part of our everyday lives, yet most developers are not aware of accessibility design principles and tools, and the companies where they work ignore accessibility[3] ,mobile accessibility is necessary to optimize for mobile users as a considerable portion of people access job search sites using mobile devices. This covers elements unique to mobile devices as well as responsive design .

The most important things in today's digital world are smartphones, laptops, PCs, and other digital devices. The world has significantly changed as a result of the Covid-19 pandemic, and most businesses are now focusing on internet marketing, customer service, and other online activities. As a consequence, the use of web browsers has increased dramatically. Thus, there is a possibility that we could be tracked, hacked, the target of cyberbullying, etc. when we use the internet extensively. Thus, web browser privacy protection becomes necessary when browsing the internet[4], data security procedures to protect user information, strong data encryption, safe login procedures, and frequent security audits should be put in place.

By focusing on these important areas, we hope to create a job search website architecture that not only satisfies user needs but also establishes industry standards for effectiveness, security, and user experience.

# Chapter 3

## Methodology

In this chapter, we dive into more details about the implementation of the solution for the previously described problem, discussing the work we've done to deliver the final value to various stakeholders that will benefit from this platform namely: companies, company employees, self-employed individuals, customers, and system admin. In addition, a comprehensive overview of different technologies and tools utilized throughout the development process, and the user interface for both mobile and web platforms will be provided.

### 3.1 Standards and Specifications

In the development of hire me platform, a selection of powerful tools and frameworks ensured robustness, efficiency, and scalability, align-ing with established standards and speciation's. Here is a highlight of the key tools and their roles in adhering to industry standards:

1. **Programming Languages and Frameworks:** Front-end Development: React facilitated the creation of dynamic user interfaces.
2. **Mobile App Development:** React Native enabled cross-platform mobile app development for a unified user experience.
3. **Back-end Infrastructure:** Node.js.

### 3.2 Security used in the project

In Hire Me, we used some security methods, the most famous of which, according to the NPM website, include:

- **JWT Token:** We used this library to secure login to the website or application and verify the identity of users.
- **BCRYPT:** A library that encrypts users' passwords to store them in the data base.
- **React Protected Routs:** A feature in the React-Router-Dom library to verify user permissions before entering specific pages on the site.  
(Such as ensuring that the account is an Admin account before entering the Admin Control page)

### 3.3 Diagrams

#### 3.3.1 ER Diagram

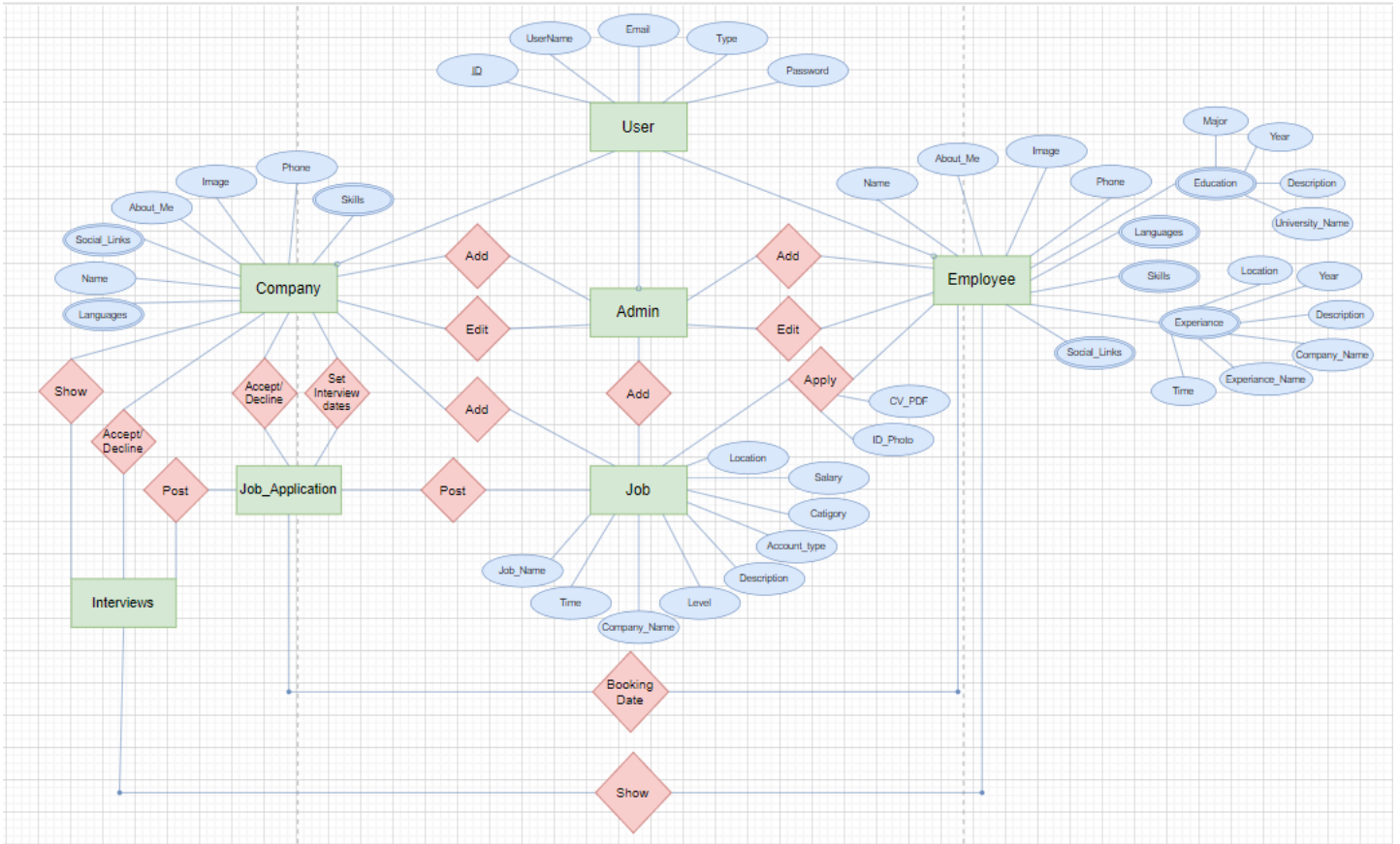


Figure 3.1: ER Diagram

### 3.3.2 Use case diagrams

- Admin account:

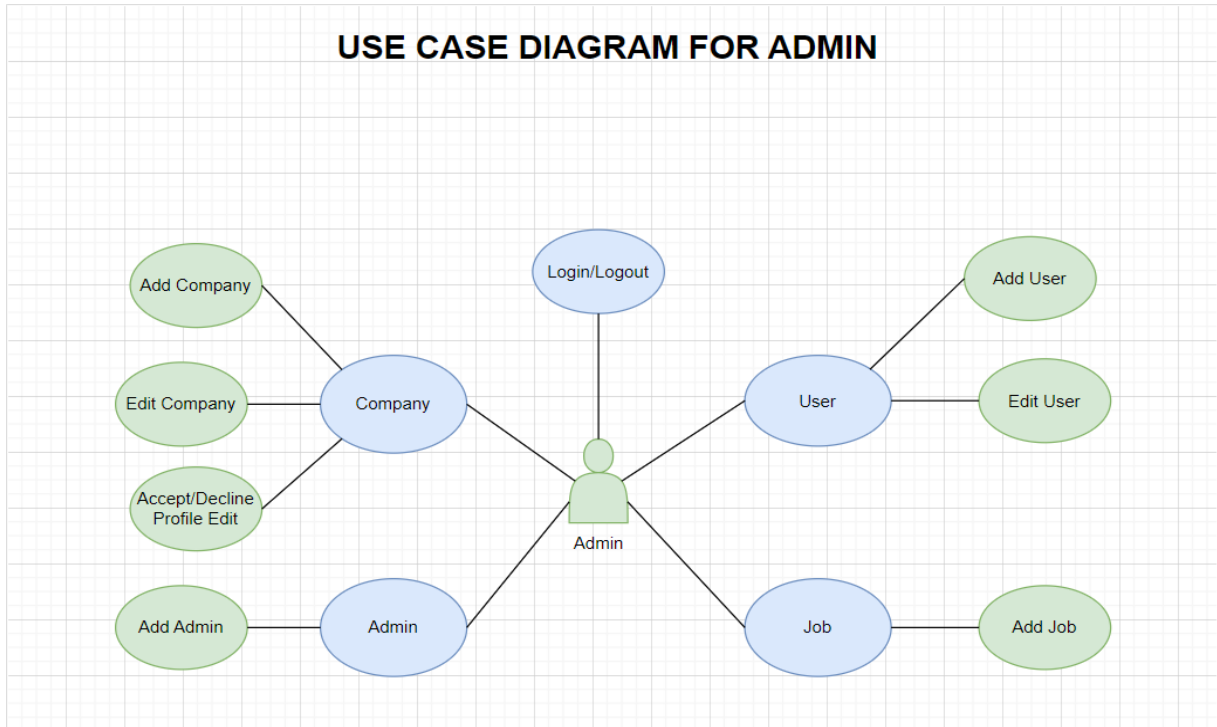


Figure 3.2: Admin use case diagram

- Company account:

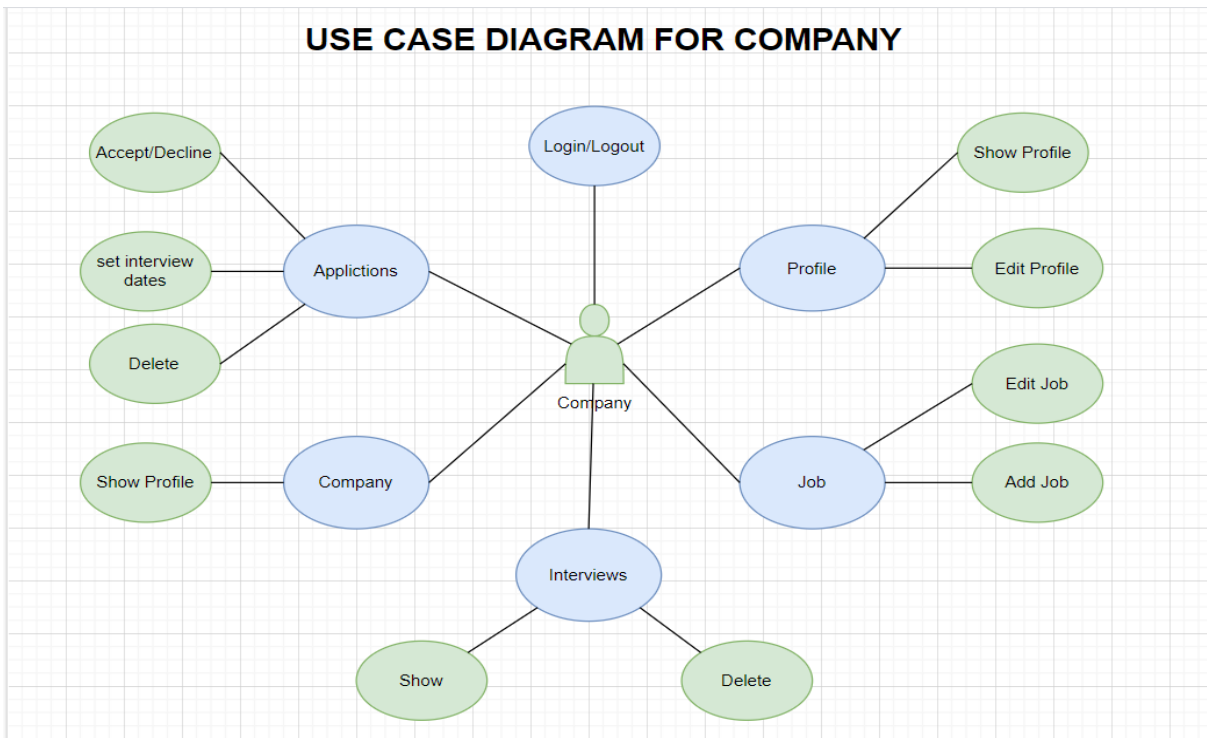


Figure 3.3: Company use case diagram

- Employee account:

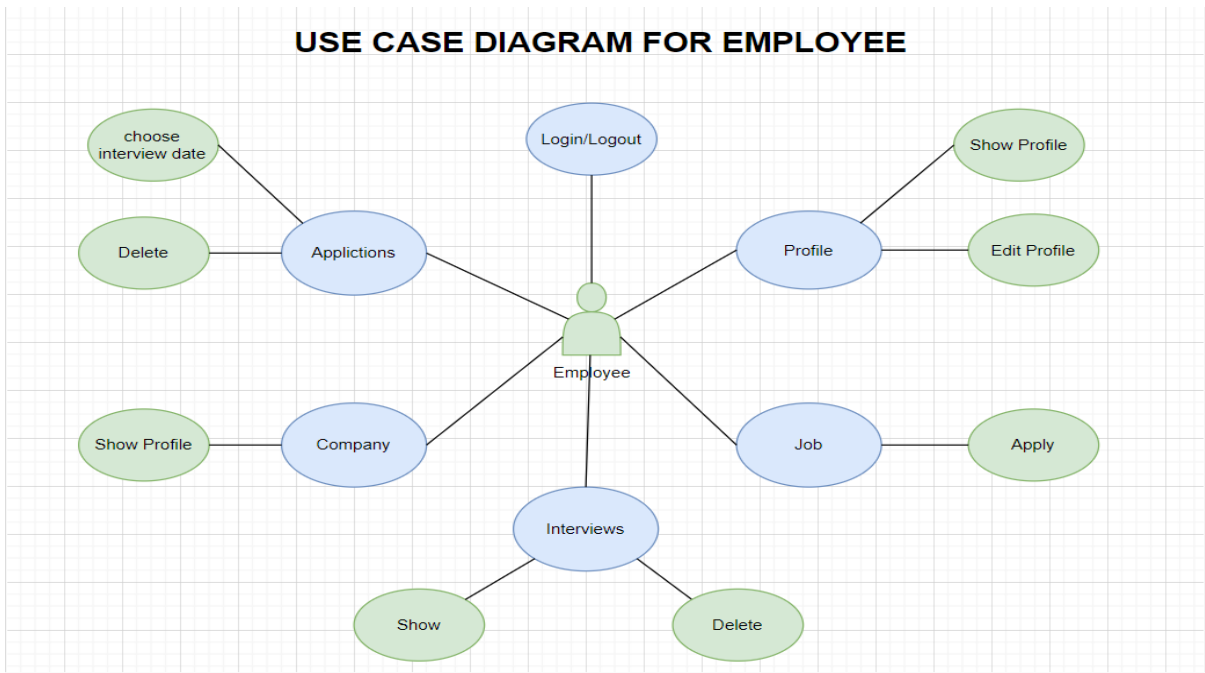


Figure 3.4: Company use case diagram



## 3.4 User Interface Overview

### 3.4.1 WEB

Main page

- Home page to see Category for Jobs

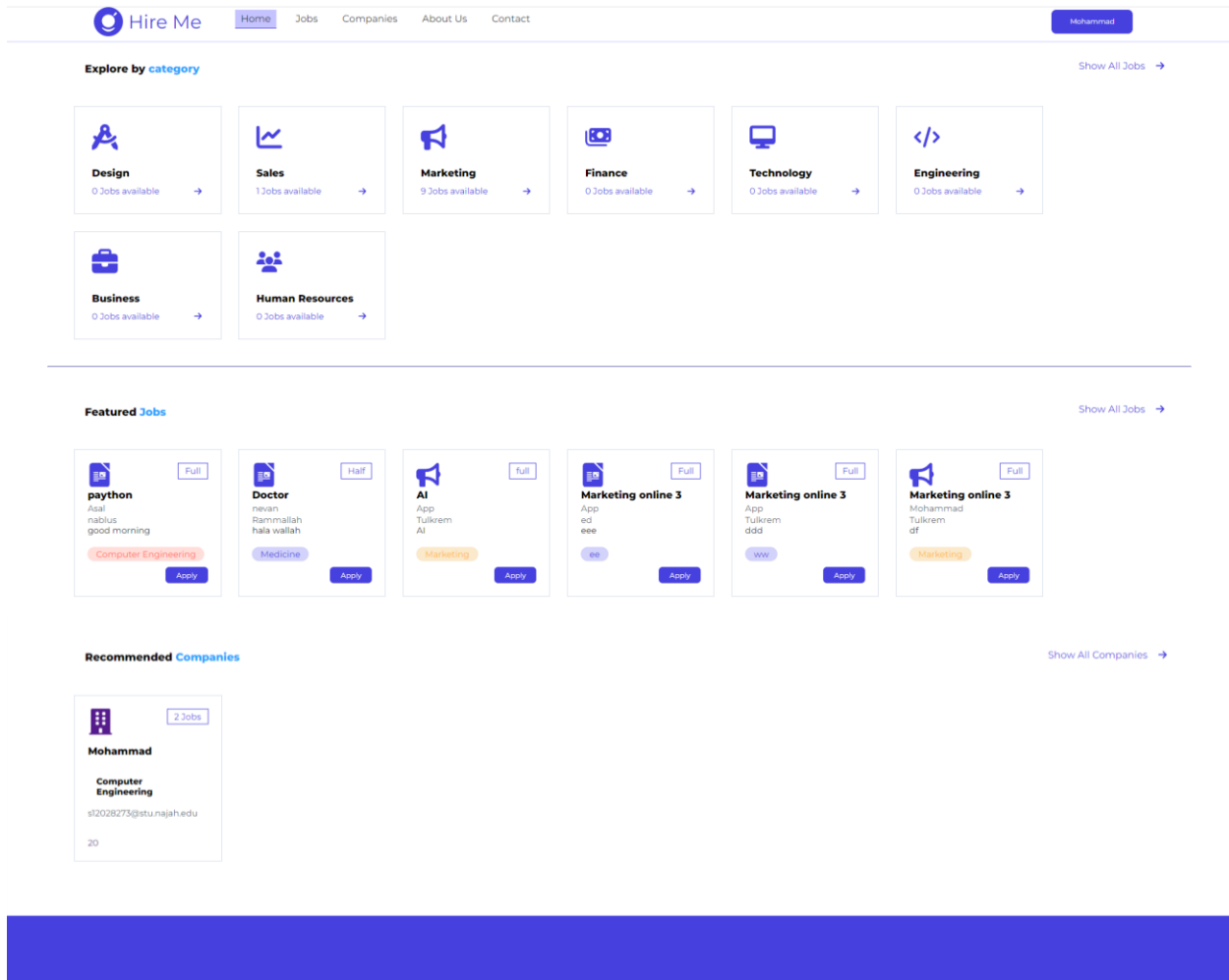


Figure 3.5: Home Page

- Jobs Page To see Pages And Apply To Jobs and fillters depends on location, experiences and skills

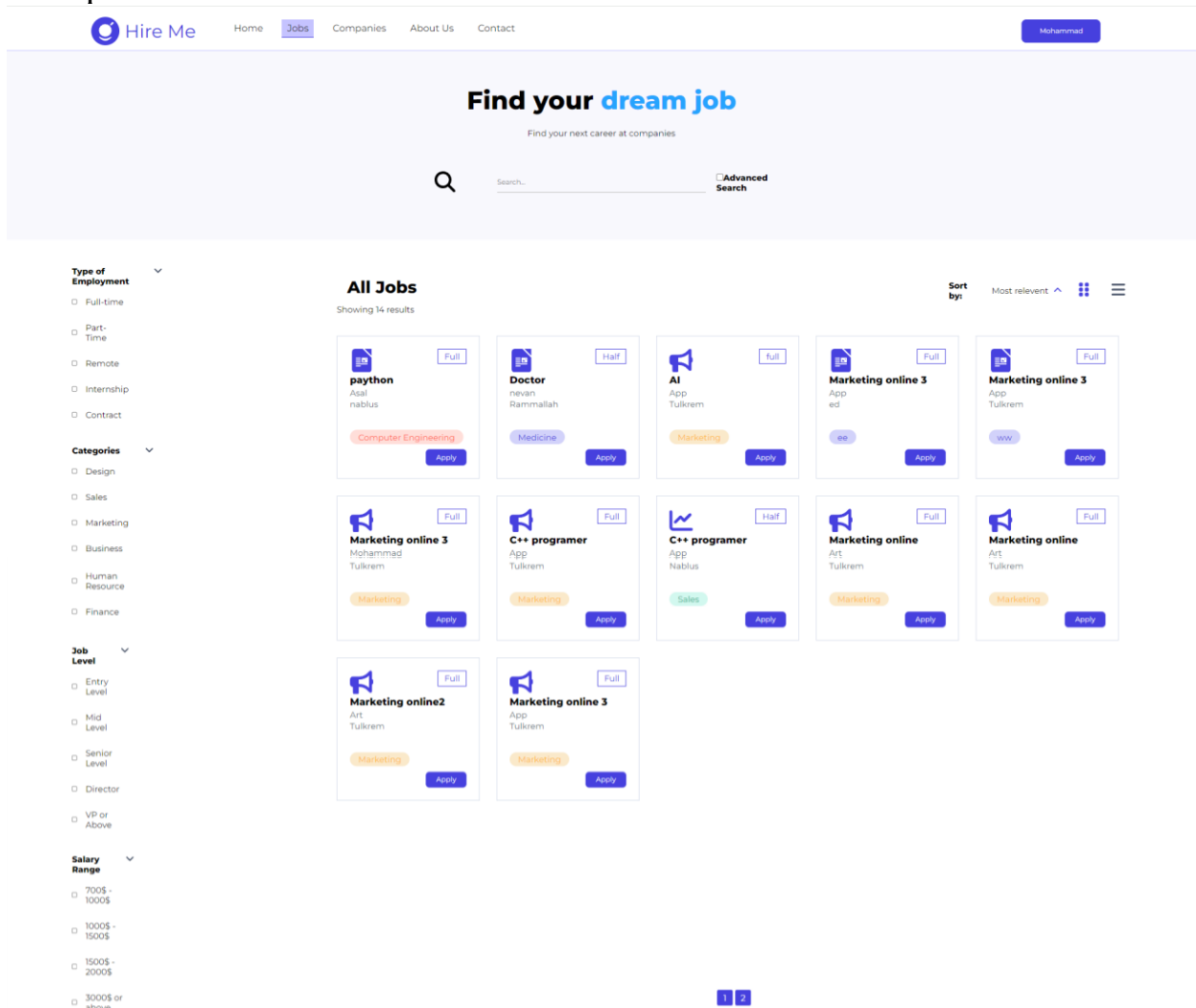


Figure 3.6: Jobs Page

- Apply to job by upload ID Photo And CV

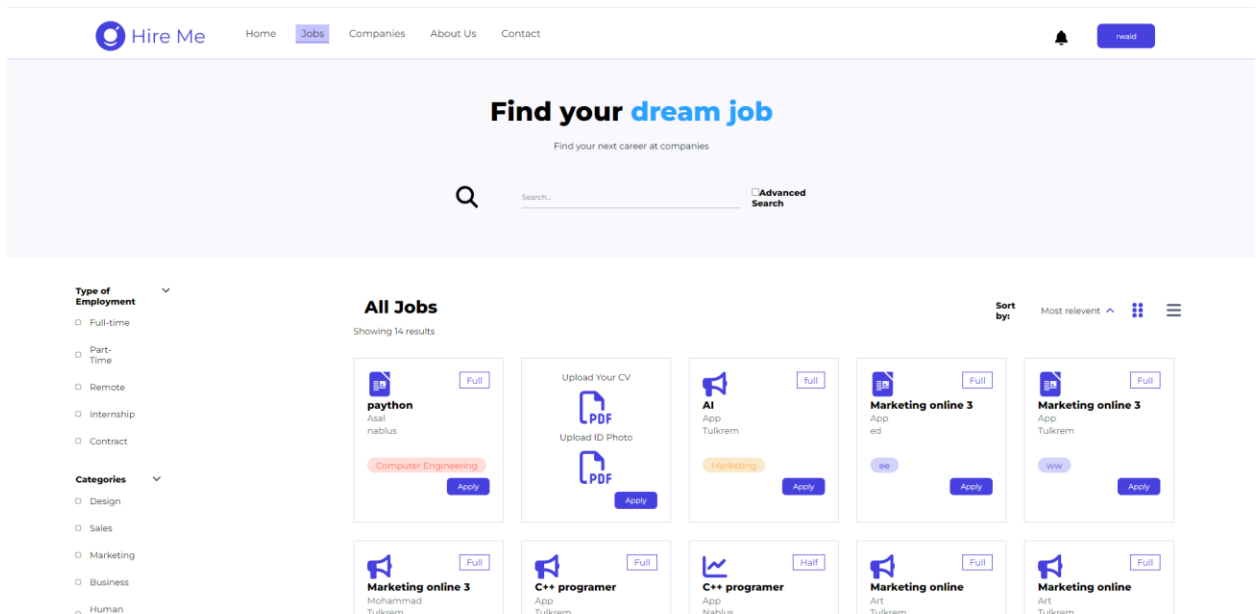


Figure 3.7: Apply to Job

- Company's page to see all companies

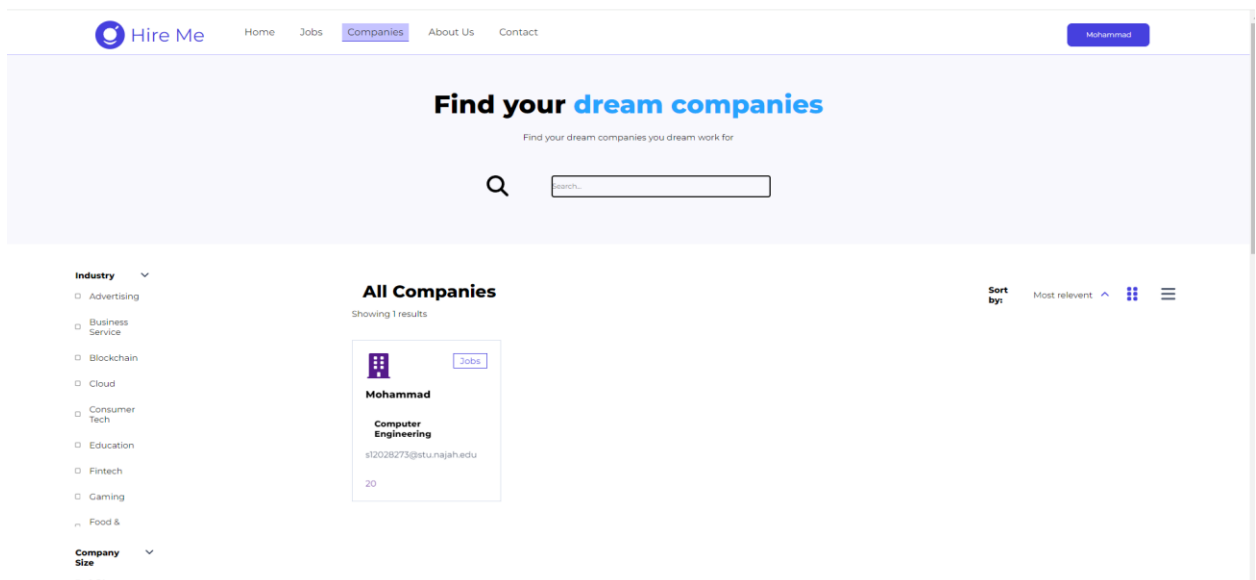


Figure 3.8: Company's Page

- Sign up by unique username and password and hashing password

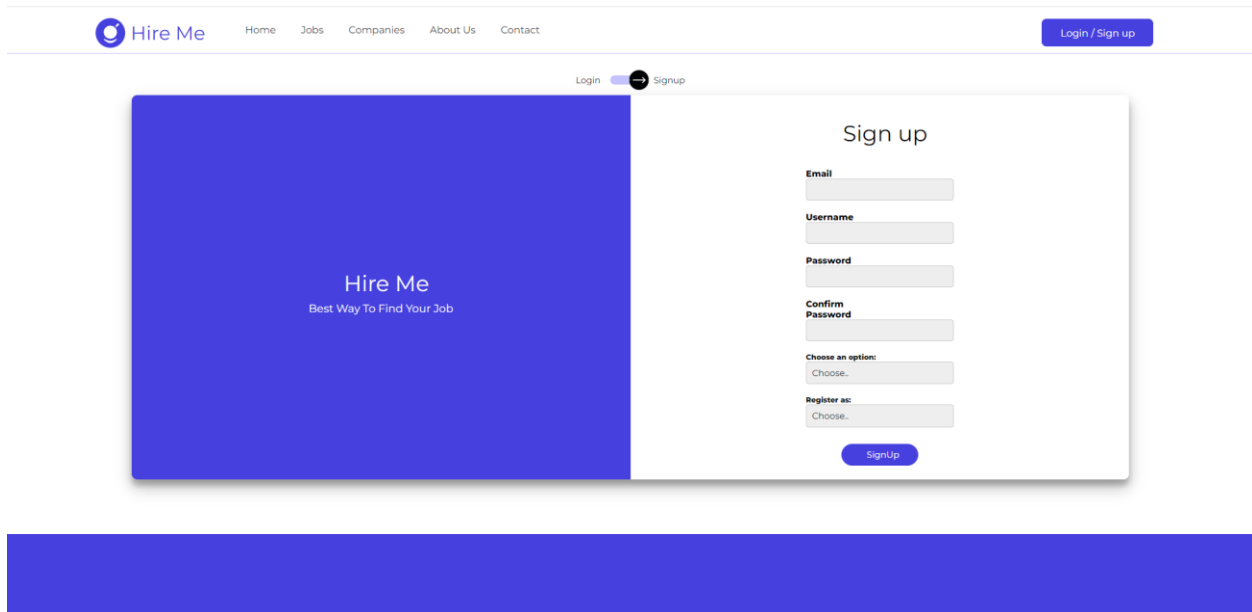


Figure 3.9: sign up

- Login decrypt password and compare it with input

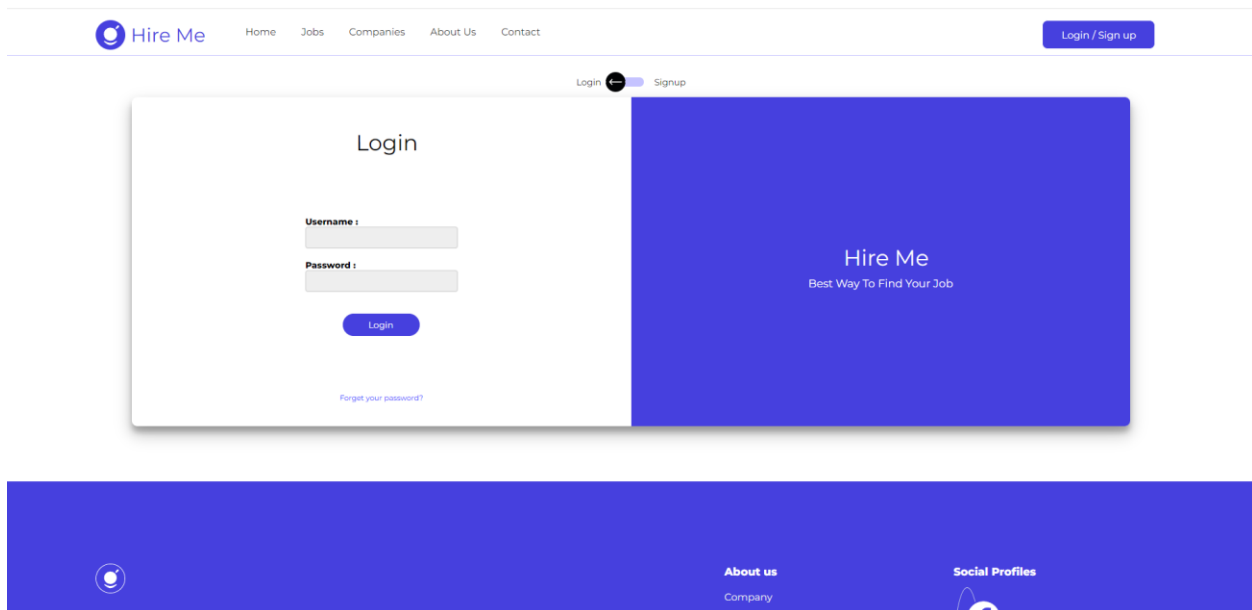


Figure 3.10: login

- Profile Page have information about user and can generated cv using this information

The screenshot displays a user profile page on the 'Hire Me' website. The page is divided into several sections:

- Header:** 'Hire Me' logo, navigation links (Home, Jobs, Companies, About Us, Contact), a notification bell, and a user name 'rwaid'.
- Left Sidebar:** Navigation menu with 'Dashboard', 'Profile', 'My Applications', and 'Interview'.
- My Profile Section:**
  - Profile Card:** Features a circular profile picture, the name 'Rwaid Adwan', and the text 'work at Asala' and 'Tulkrem, Palestine'.
  - Additional Details:** Lists 'Email: advan111@mail.ru' and 'Phone: 0123456789'.
  - Social Links:** Includes a 'Facebook' link with the URL 'www.facebook.com'.
  - Generate PDF CV:** A prominent blue button labeled 'Generate CV'.
- Experiences Section:**
  - Paython:** Full-time position at 'Asal' from 2005 to 2010 in Nablus.
  - AI Expert:** Part-time position at 'Nasa' from 2024 to 2028 in America, described as an 'Artificial intelligence expert for galaxy detection'.
- Educations Section:**
  - Bachelor's:** Computer engineer, 2024. Note: 'I am finished Bachelor's at 2020 in An-Najah National University'.
  - Master in AI:** AI, 2024.
- Skills Section:** Currently shows 'Paython' as a skill.

Figure 3.11: User Profile

- All application of user and can see stats of it (in review, or booking meeting or results of interview's)

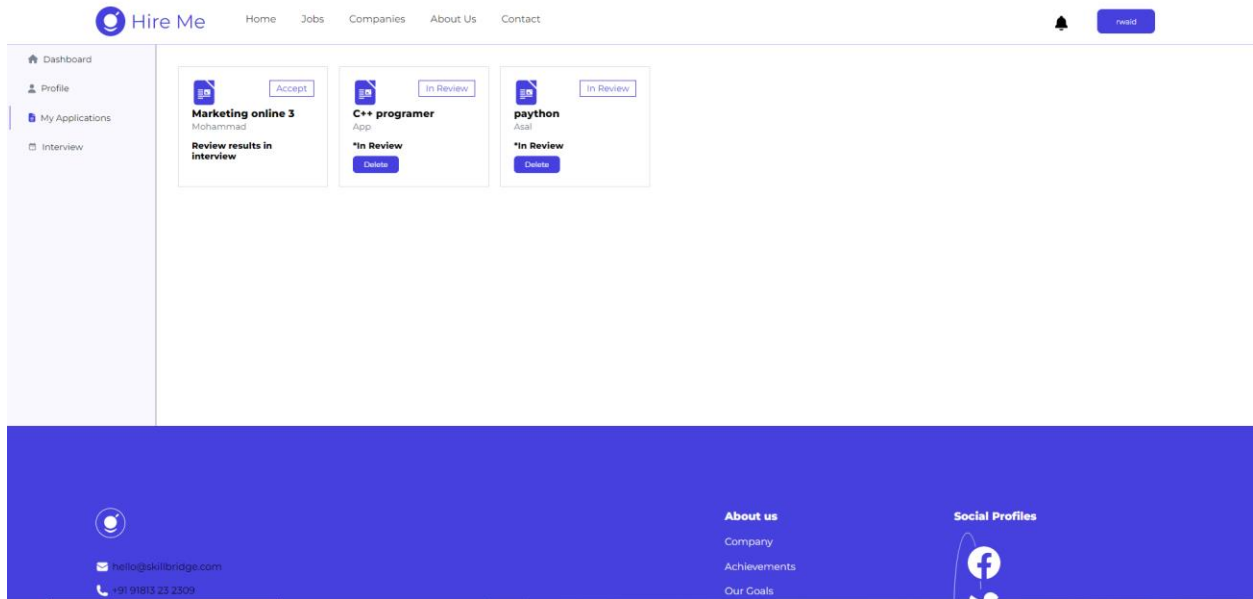


Figure 3.12: User Applications

- Interview booking date after accept CVs

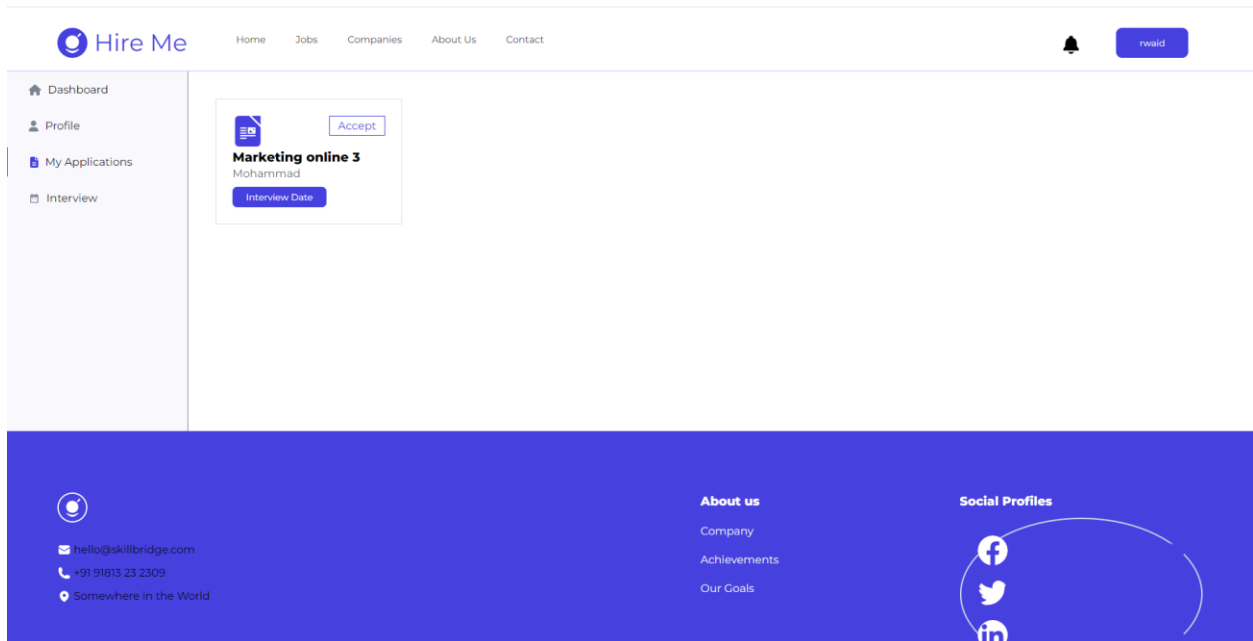


Figure 3.13: User Applications after Approval to interview

- All date by Company to do interview and add zoom link for online interviews

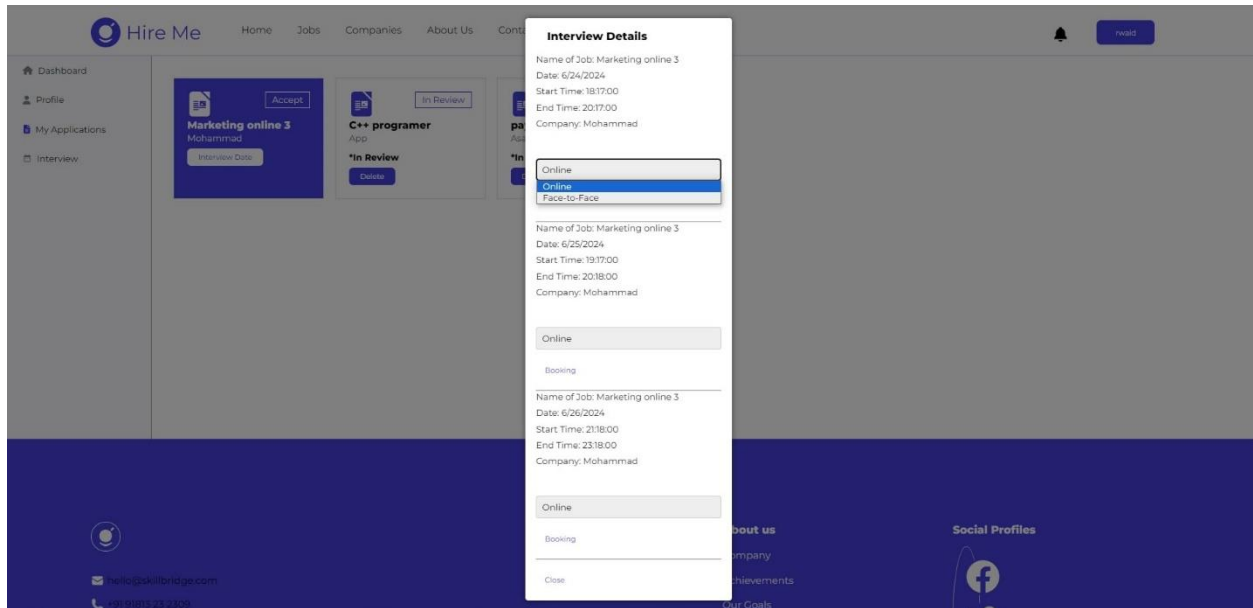


Figure 3.14: Meeting time for interview

- Stats after interview's (accepted or reject or in interviews)  
If face to face or online (show zoom link if online)

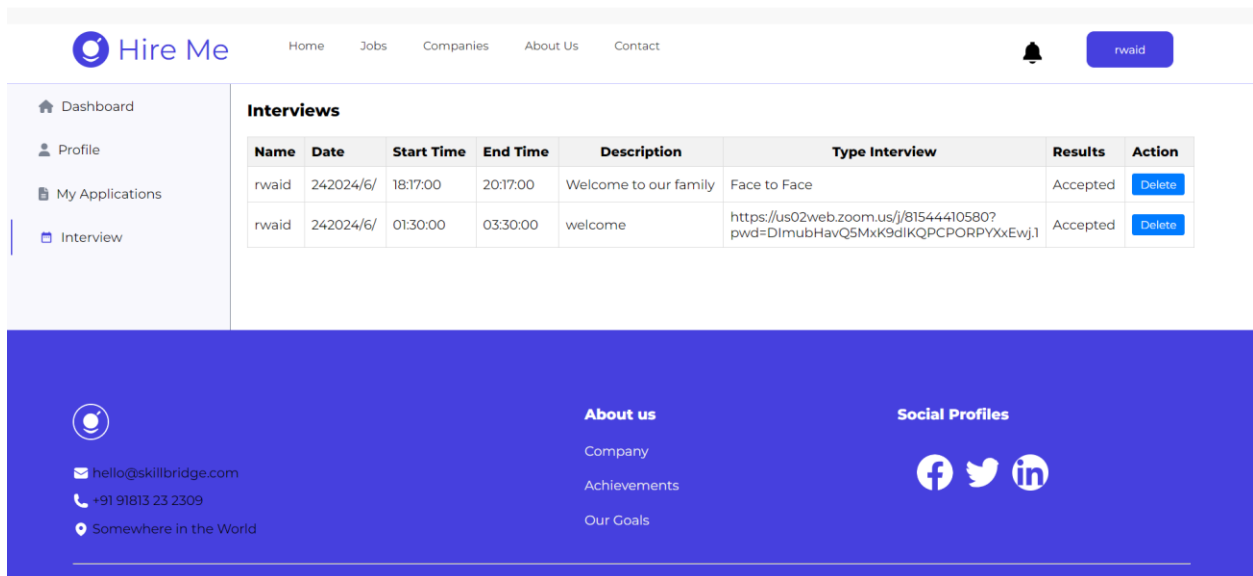


Figure 3.15: Interview's Time and State of interview

- The notification from the company reaches the user applying for a job when he is accepted or rejected for the job and the date of the interview if he is accepted or when there is an error in the files attached to the employment application.

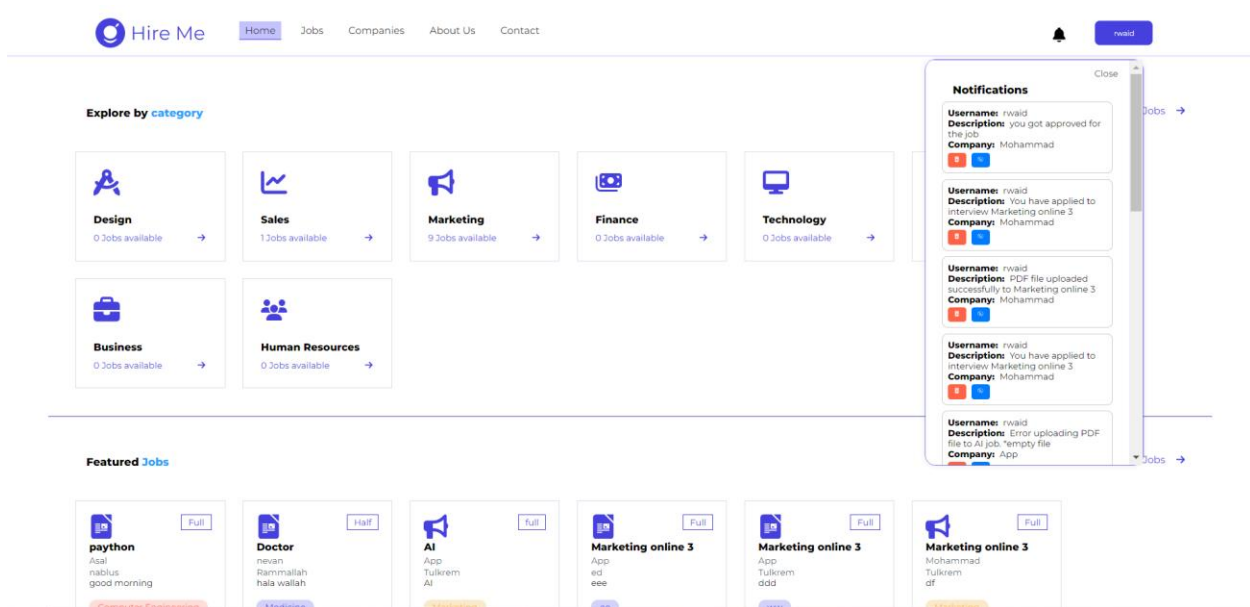


Figure 3.16: Notifications for users

- Add new Company by Admin

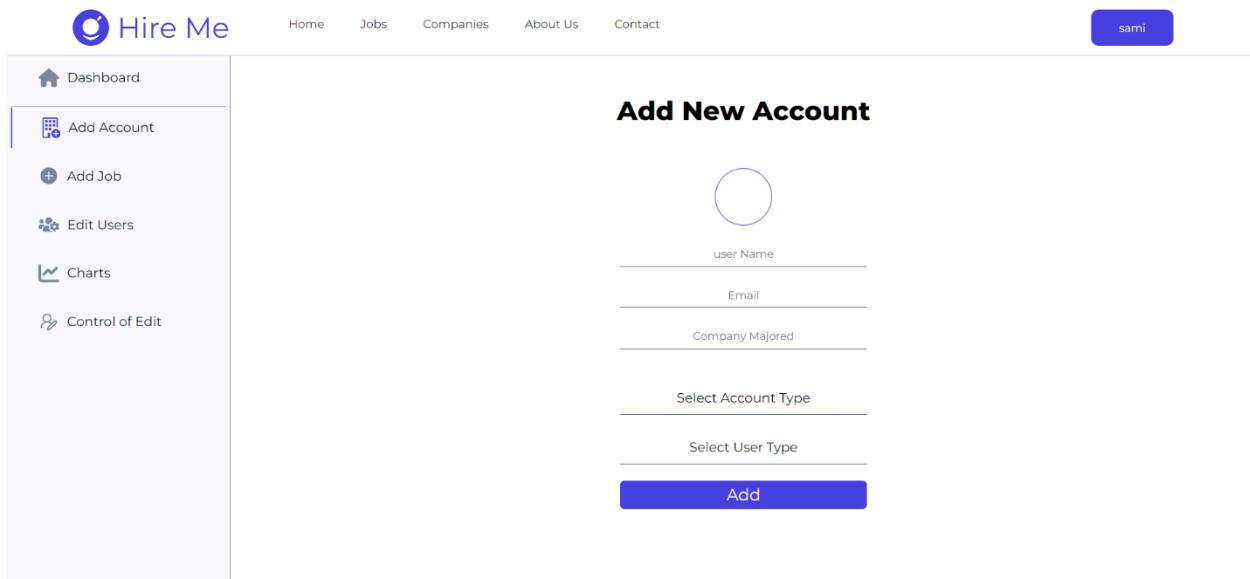


Figure 3.17: Admin Add Company's



- Add new job by admin and if paid or not

The screenshot shows the 'Add New Job' form in the Hire Me application. The form is located in the main content area, with a sidebar on the left containing navigation options: Dashboard, Add Company, Add Job (highlighted), Edit Users, Charts, and Control of Edit. The top navigation bar includes Home, Jobs, Companies, About Us, and Contact, along with a 'resid' button. The form fields are: Job Name, Job Time, Company Name, Job Level, Job Location, Salary, Job Category, Select Account Type, and Job Description. An 'Add' button is at the bottom of the form.

Figure 3.18: Admin Add Jobs

- See user and join their profile

The screenshot shows the 'Users' page in the Hire Me application. The page title is 'Users'. There is a search bar with the placeholder text 'Search'. Below the search bar, there is a table of users. The table has four rows, each representing a user with their name, email address, and account type (Free or Paid).

Name	Email	Account Type
admwwwaa	samiww@mail	Free
hamza	hamzafattouh5@gmail.com	Free
hamzal	s11820005@stu.najah.edu	Free
Mohammad	s12028273@stu.najah.edu	Paid

Figure 3.19: Admin Edit user And see Profile

- Some chart about number of login and job add and number of apply to job



Figure 3.20: Admin Charts

- Accepts editing some sensitive information as name of Company and location as City and Country

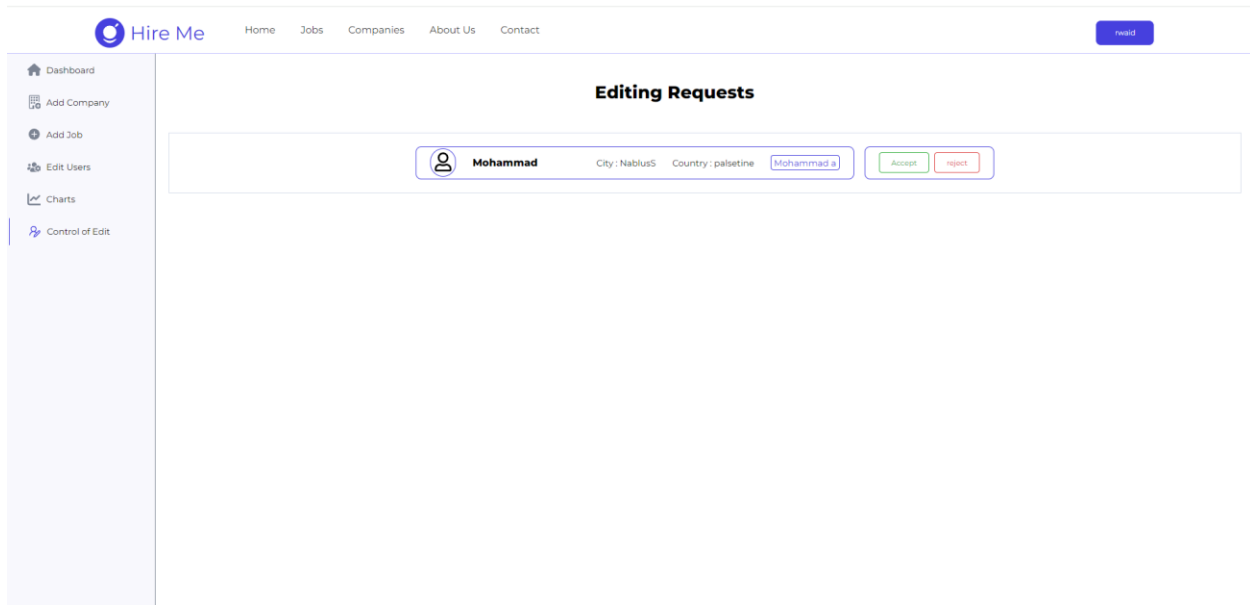


Figure 3.21: Admin Panel for Requests to modify profile information

- Company Profile see some information And her Jobs

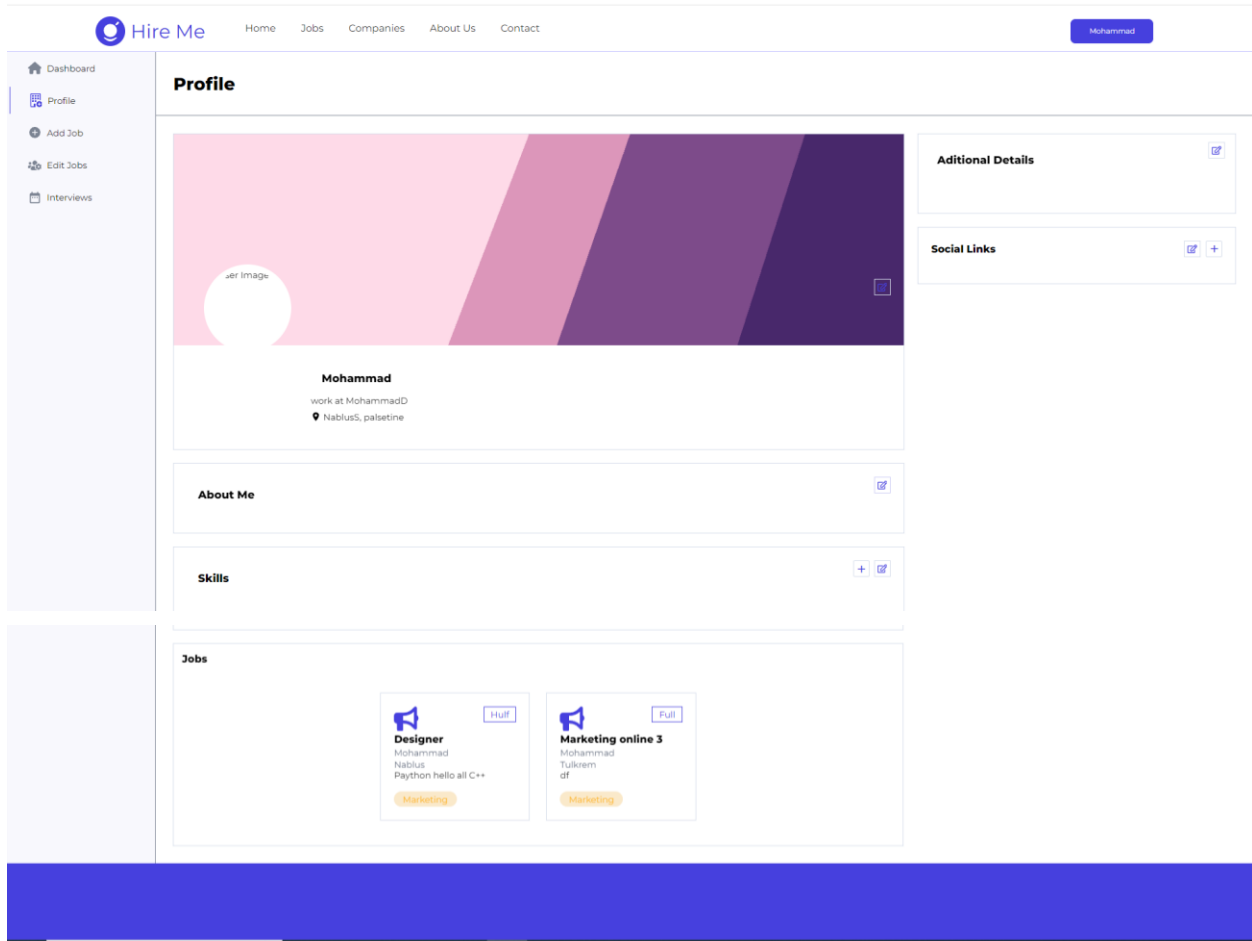


Figure 3.22: Company Profile

- Company adds Job

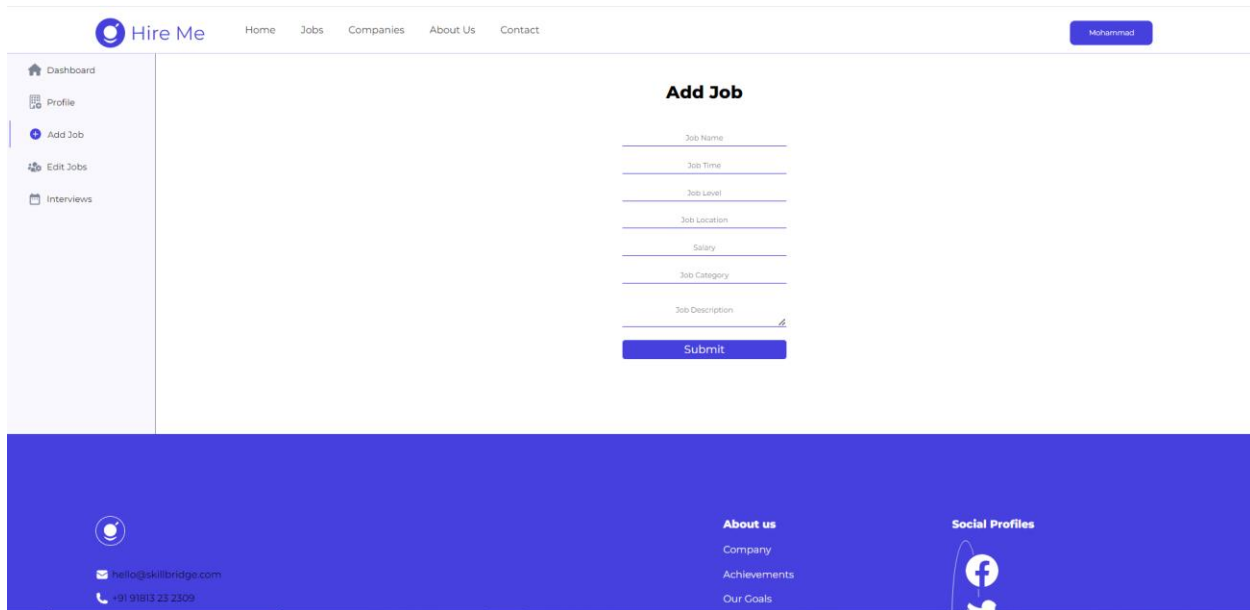


Figure 3.23: Company Add Job

- See all company jobs and edit them

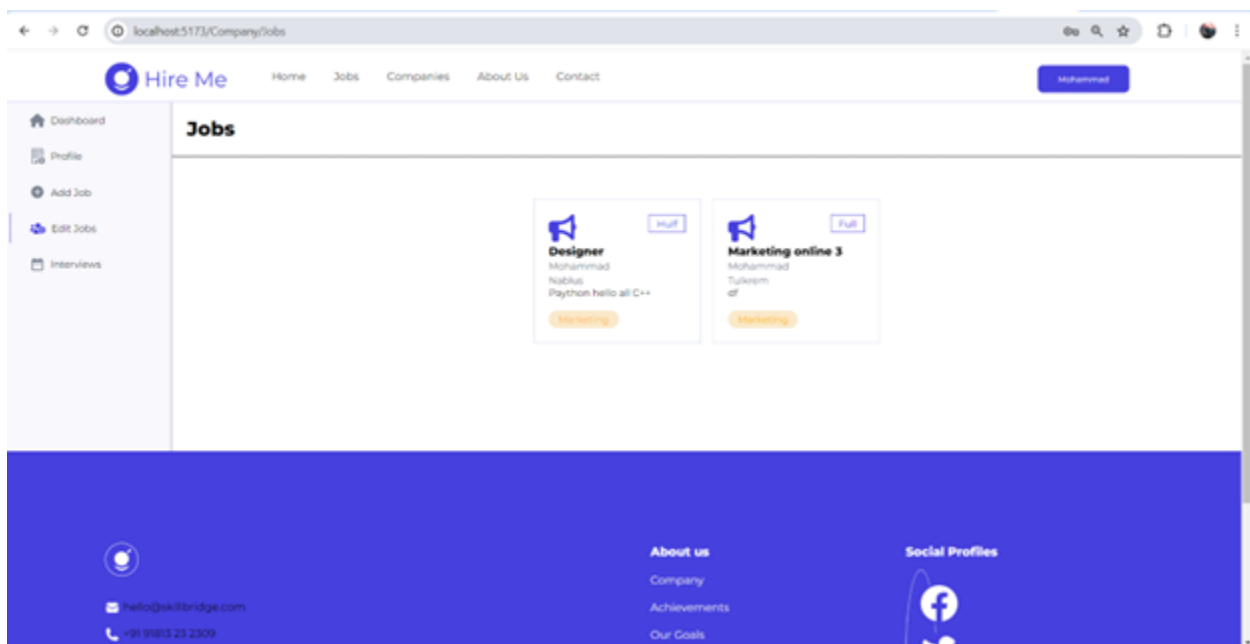


Figure 3.24: Company Jobs And edit it

- Edit jobs and see all apply of users that filters depends on location, experiences and skills

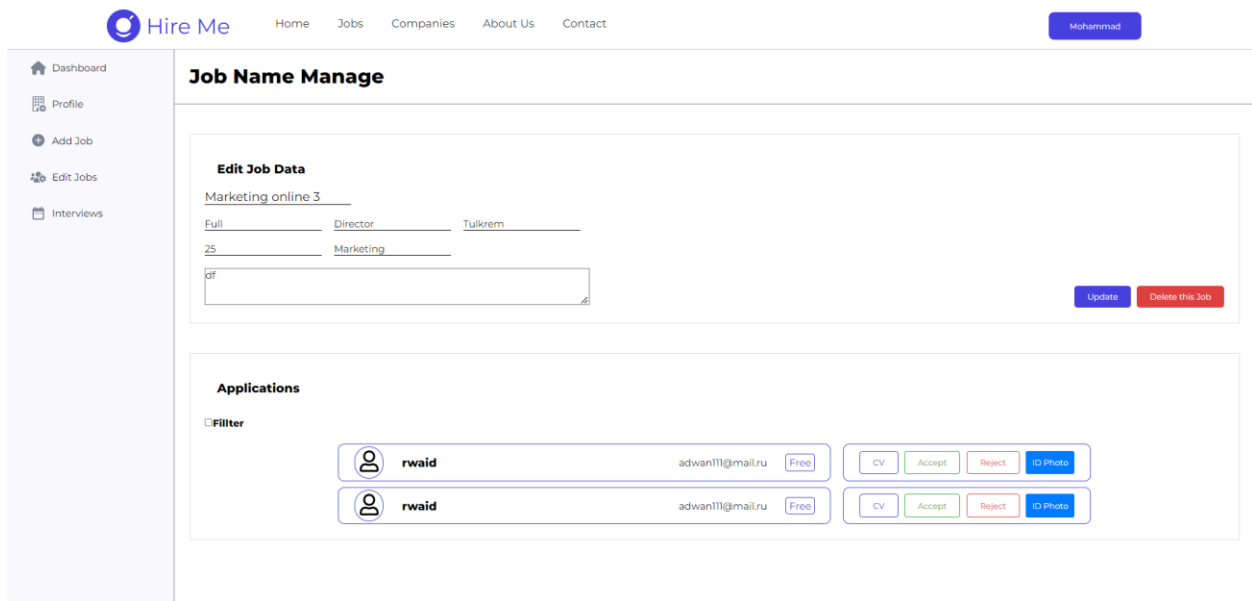


Figure 3.25: Company edits job and see applications and profile

- Chosen times and date for interviewing users and add zoom link for online interviews

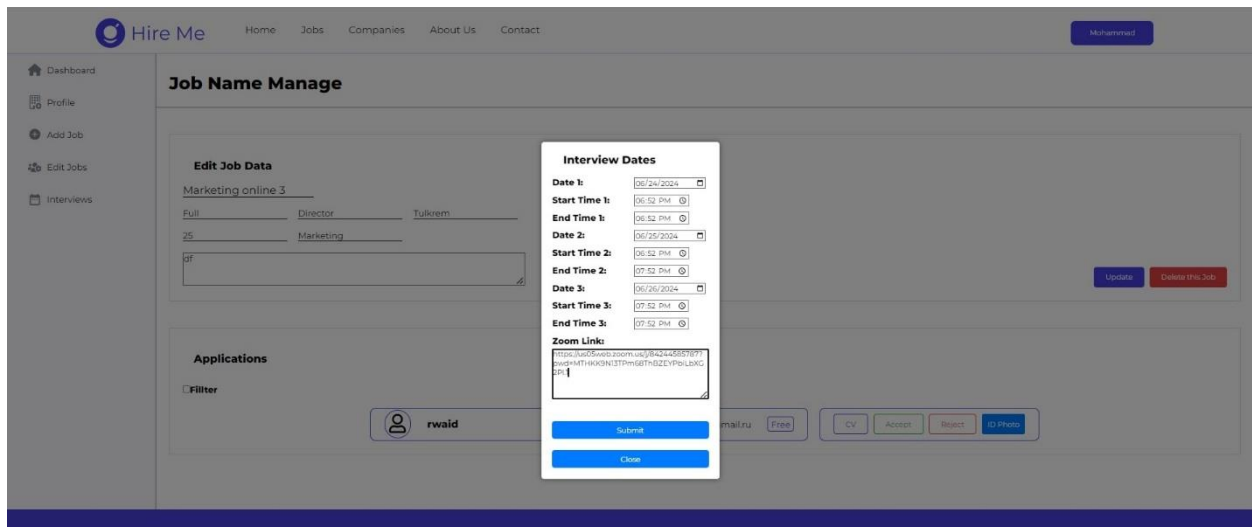


Figure 3.26: Set Times for interviews

- Accepts or reject users after interviews and add reason in description

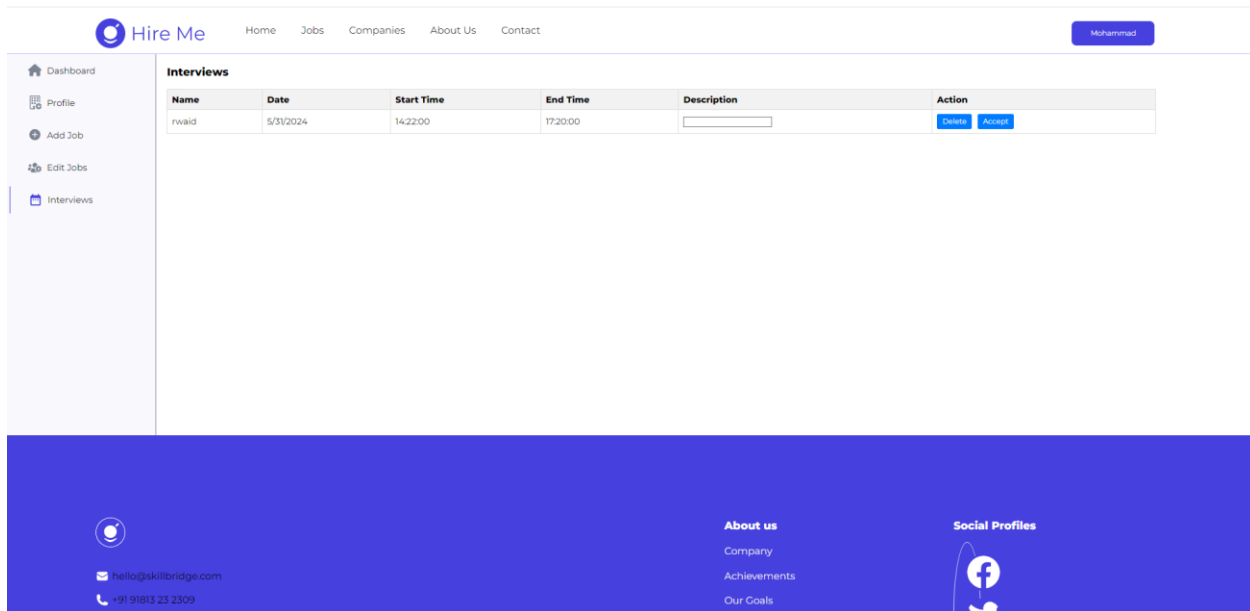


Figure 3.27: Response after Interview's and Descriptions

- All interviews and his stats and is face to face or online (show zoom link)

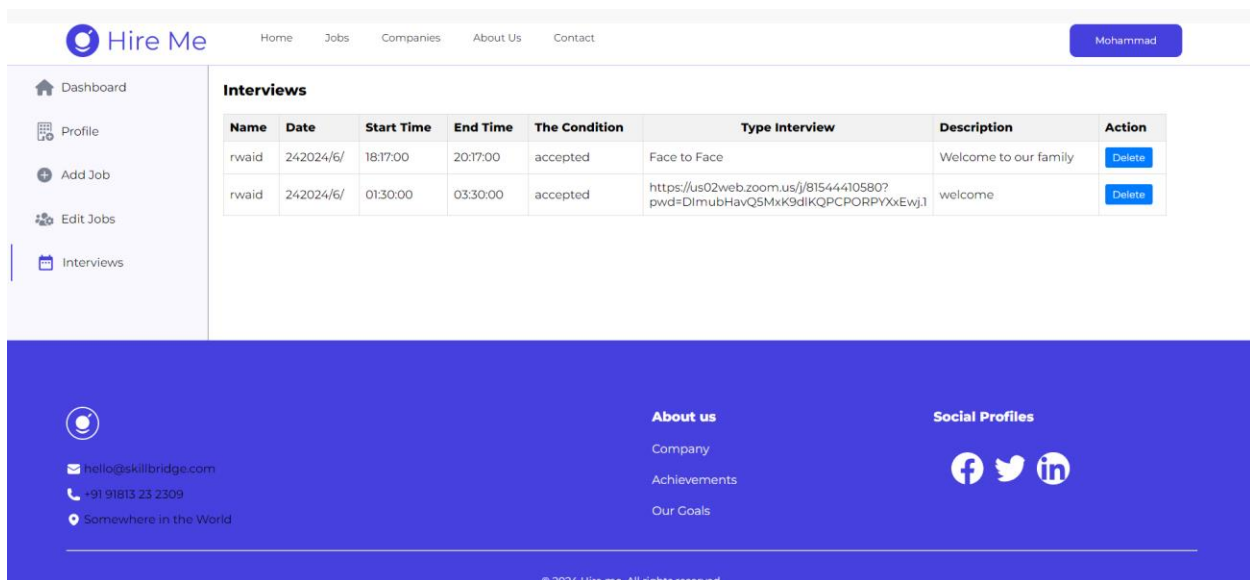


Figure 3.28: Stats of interviews

### 3.4.2 MOBILE APPLICATION

Main page

- Admin Home page to see control pages buttons

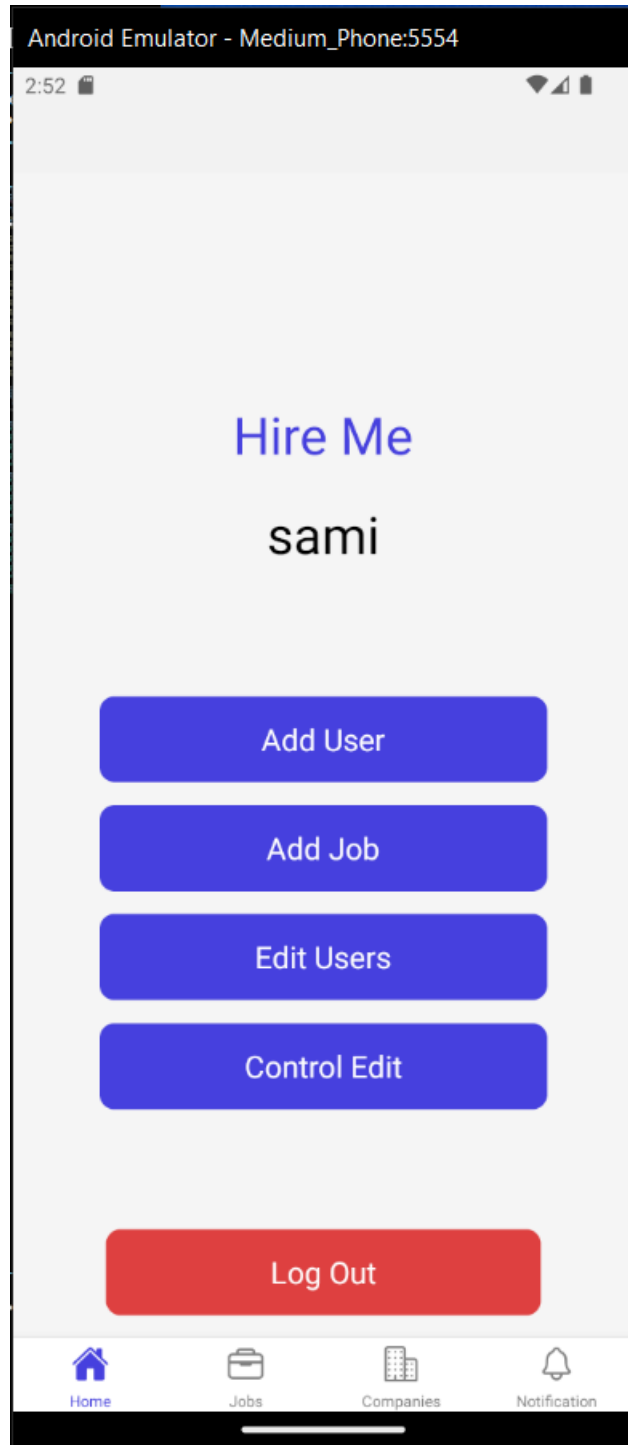
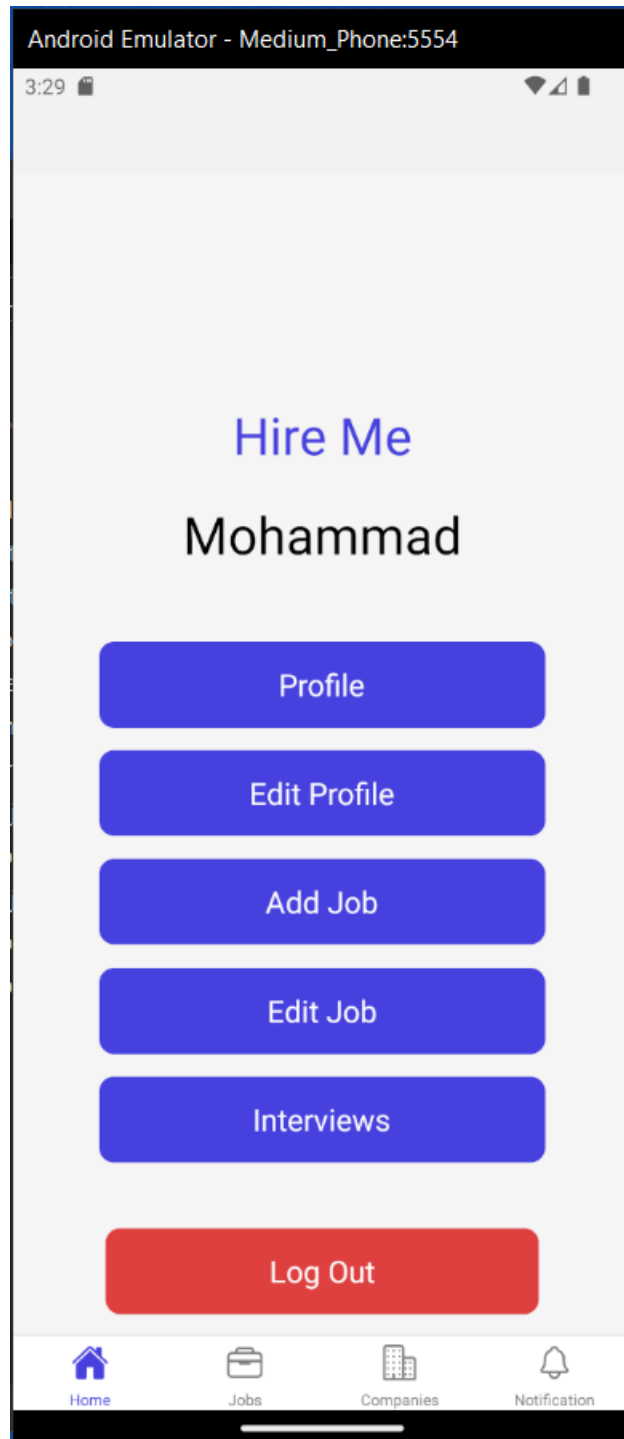


Figure 3.29: Admin Home Page

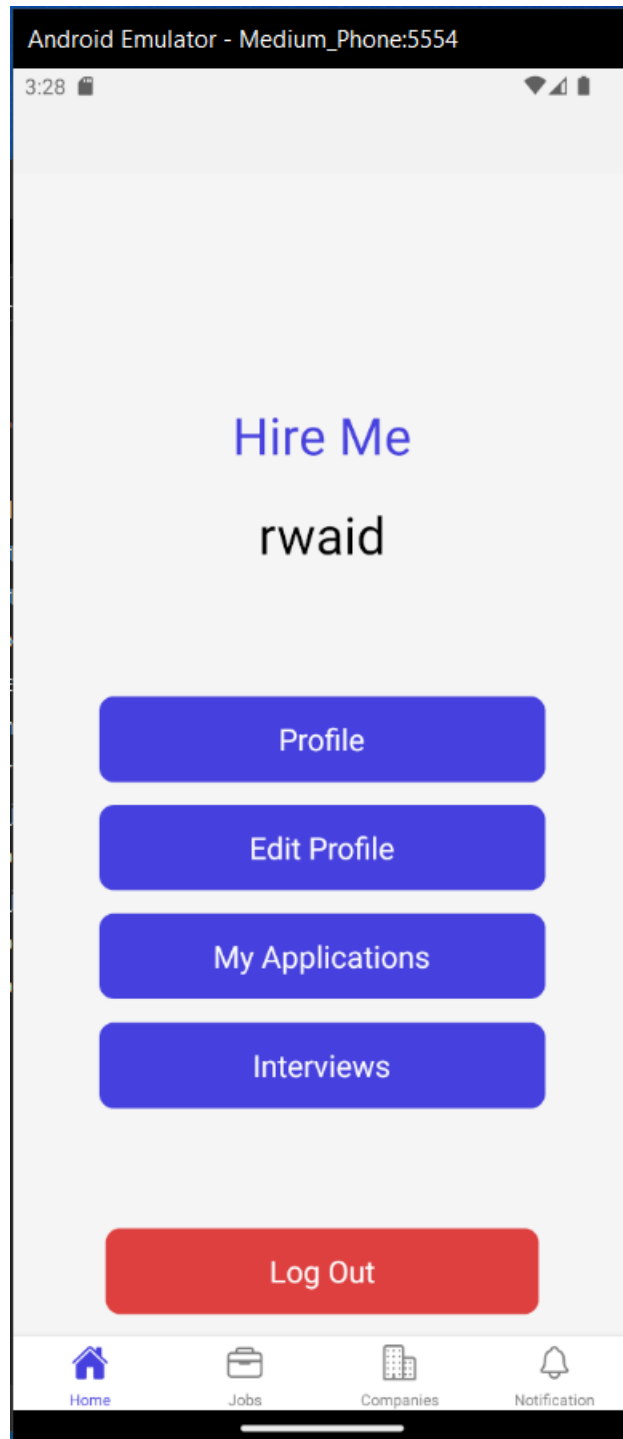
- Company Home page to see control pages buttons



*Figure 3.30: Company Home Page*



- Employee Home page to see control pages buttons



*Figure 3.31: Company Home Page*

- Jobs Page To see Pages and Apply to Jobs and filters depends on location, experiences and skills

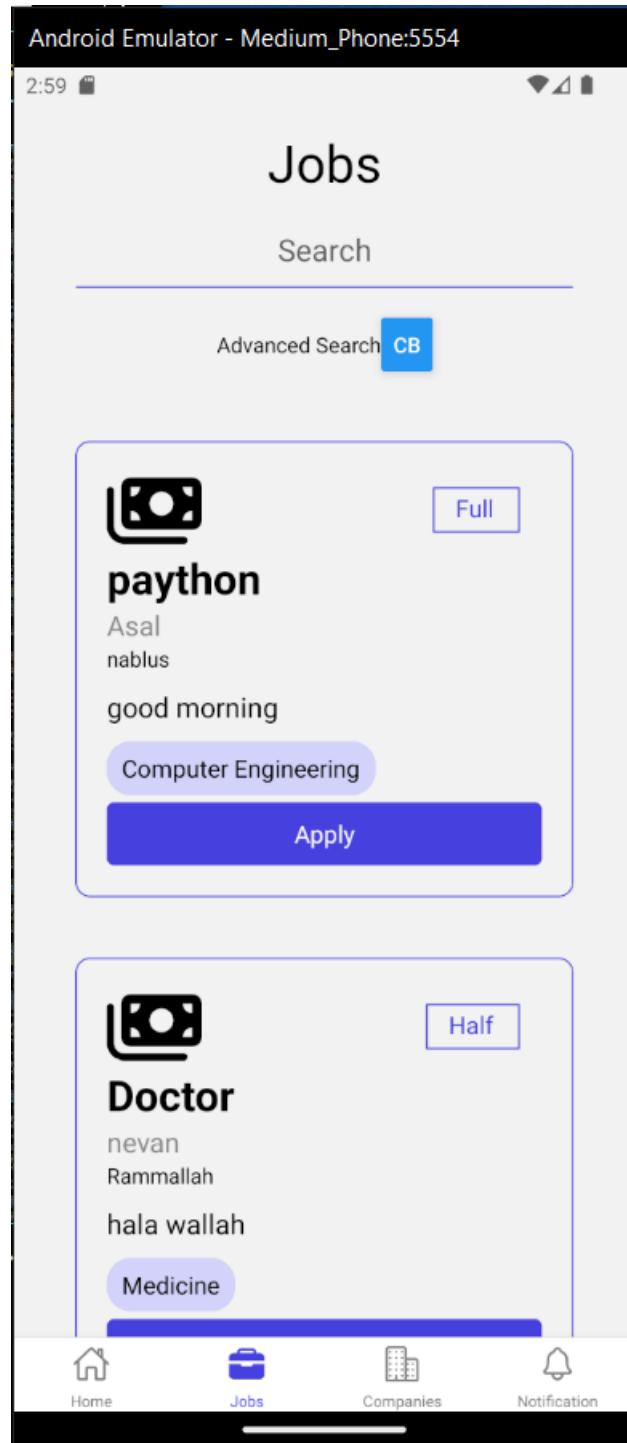


Figure 3.32: Jobs Page

- Apply to job by upload ID Photo And CV

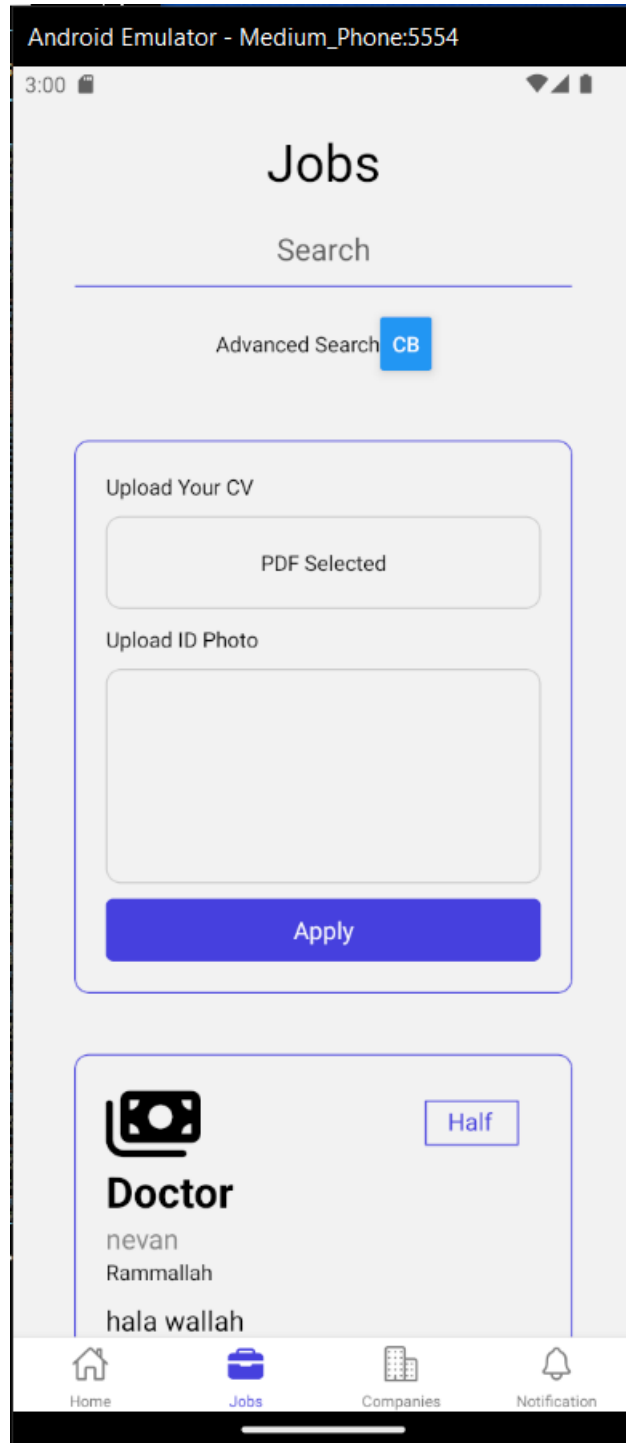


Figure 3.33: Apply to Job

- Company's page to see all companies

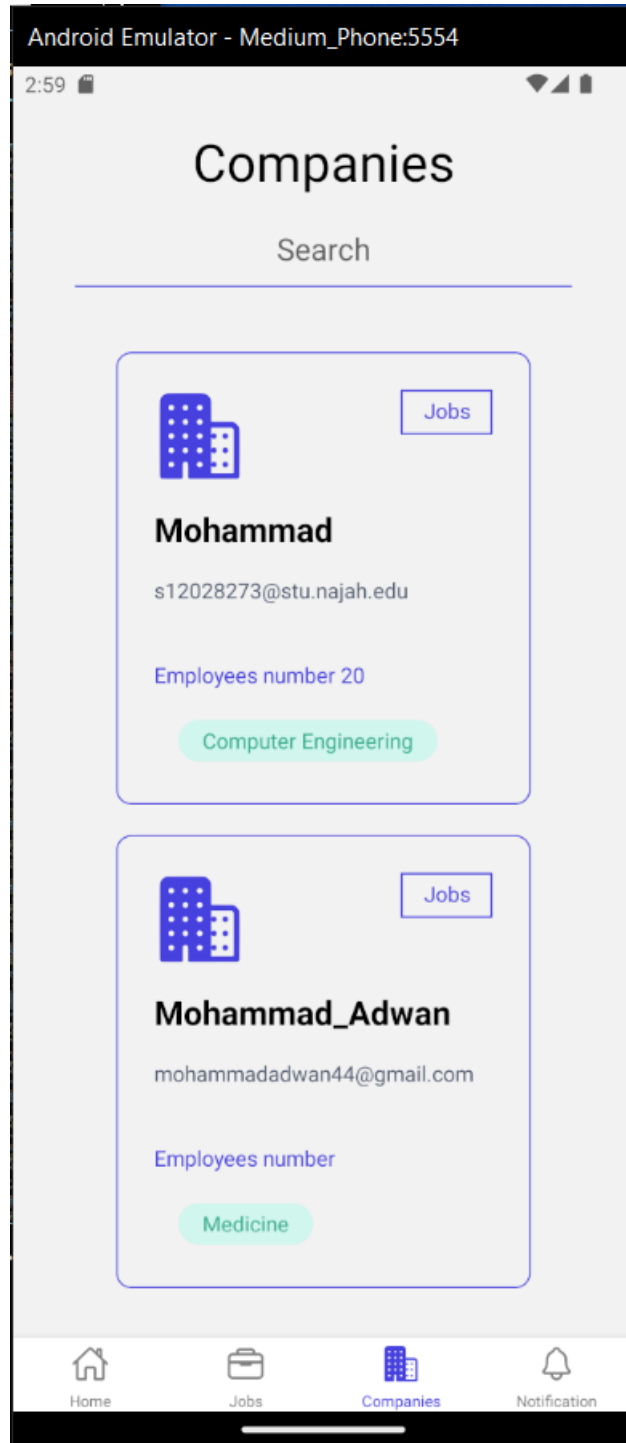


Figure 3.34: Company's Page

- Sign up by unique username and password and hashing password

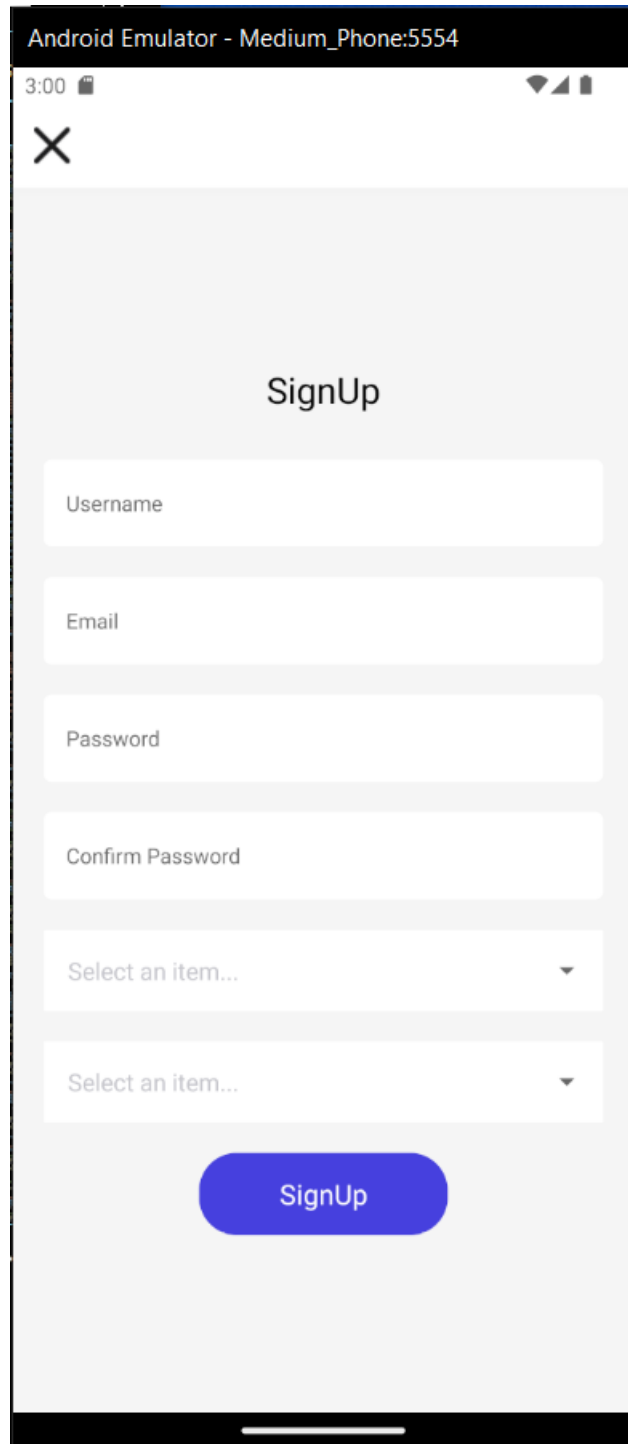
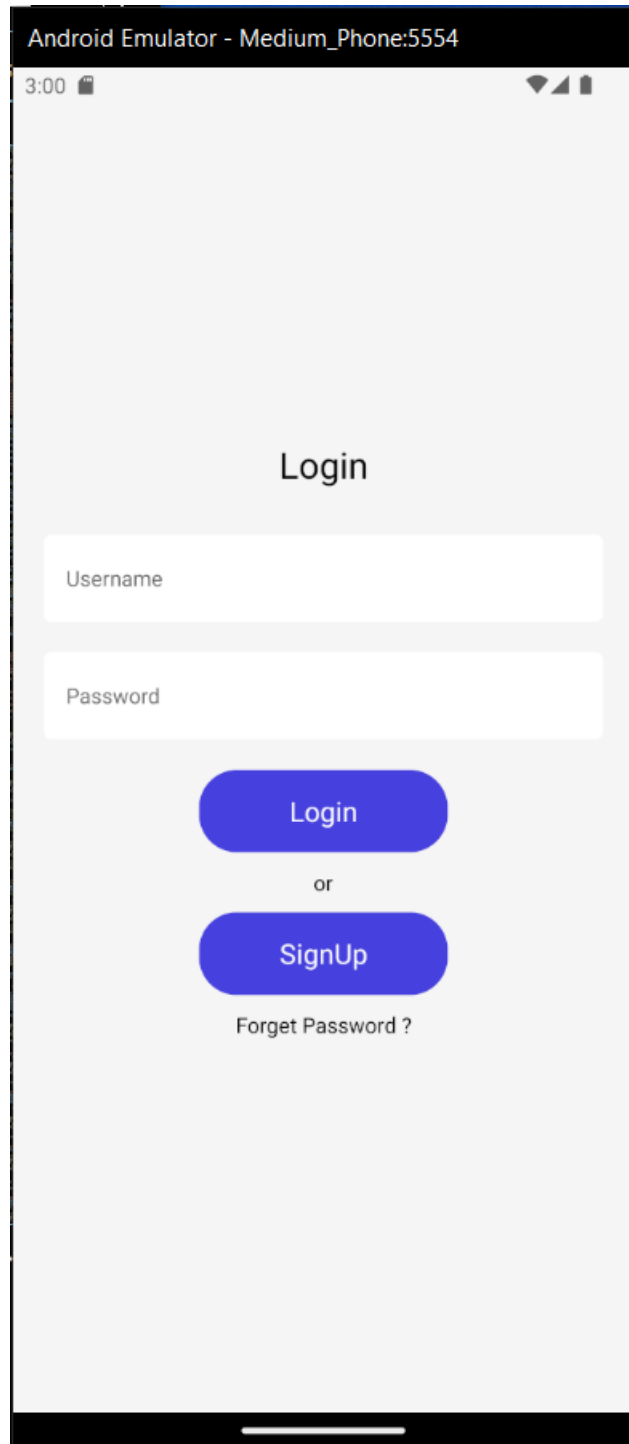


Figure 3.35: sign up

- Login decrypt password and compare it with input



*Figure 3.36: login*

- Change password when forget it

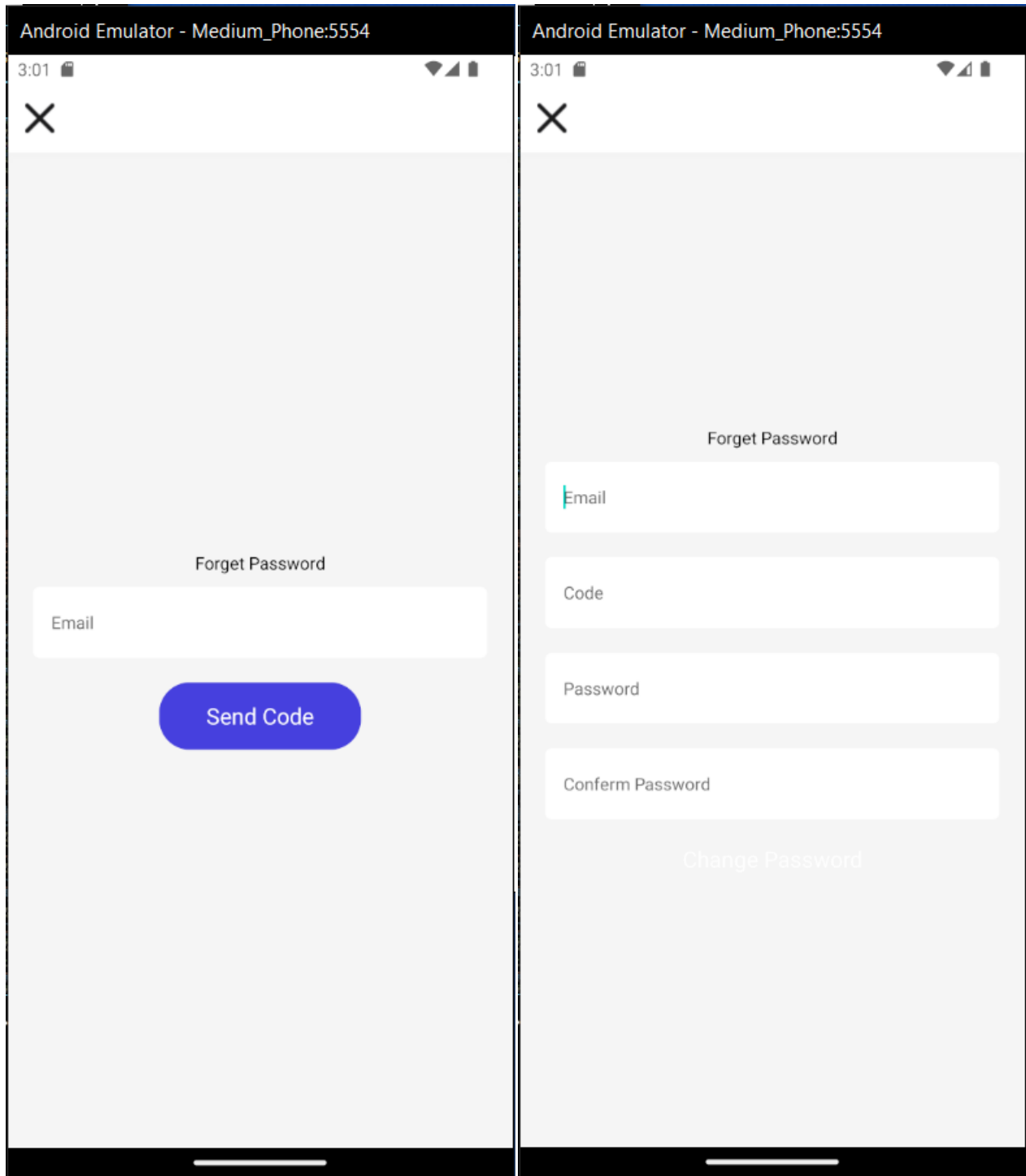


Figure 3.37: Forget Password

- Profile Page have information about user and can generated cv using this information

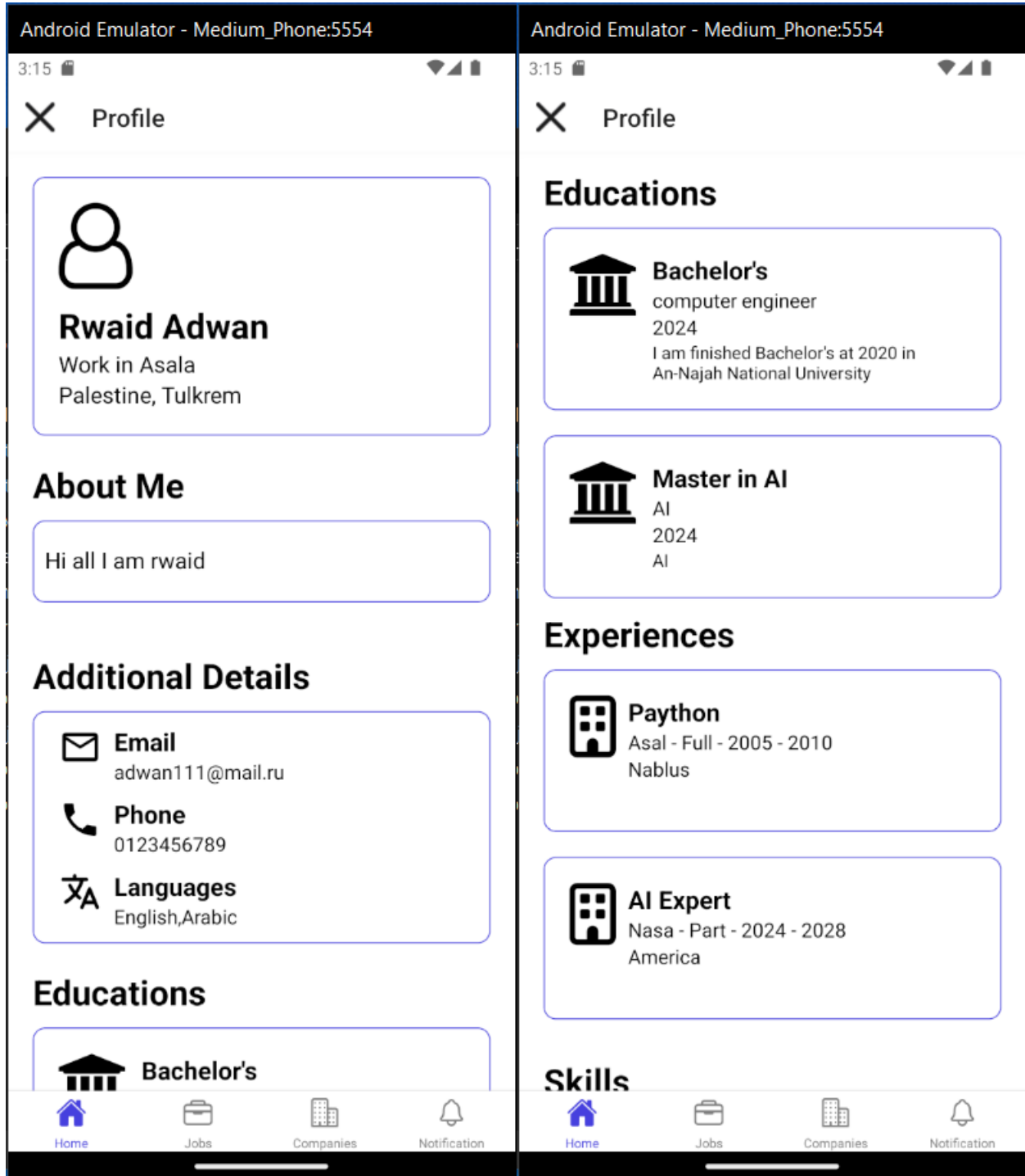


Figure 3.38: User Profile



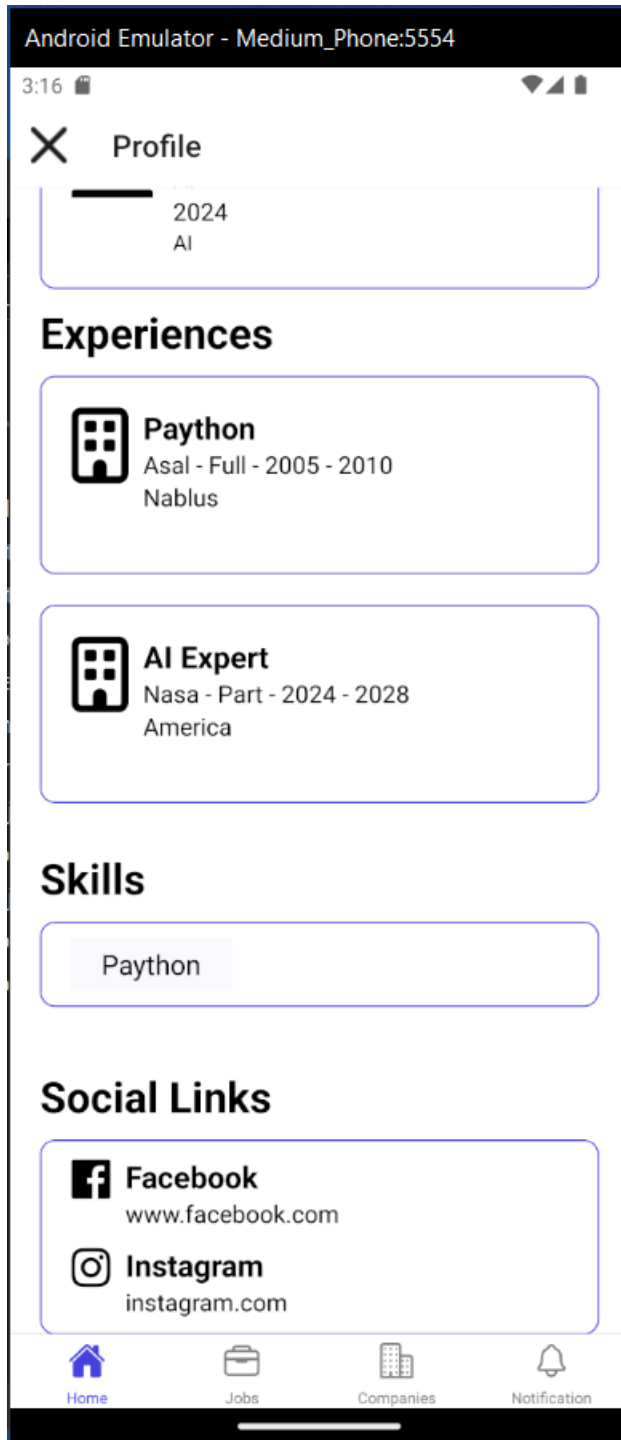


Figure 3.39: User Profile

- Edit Profile data

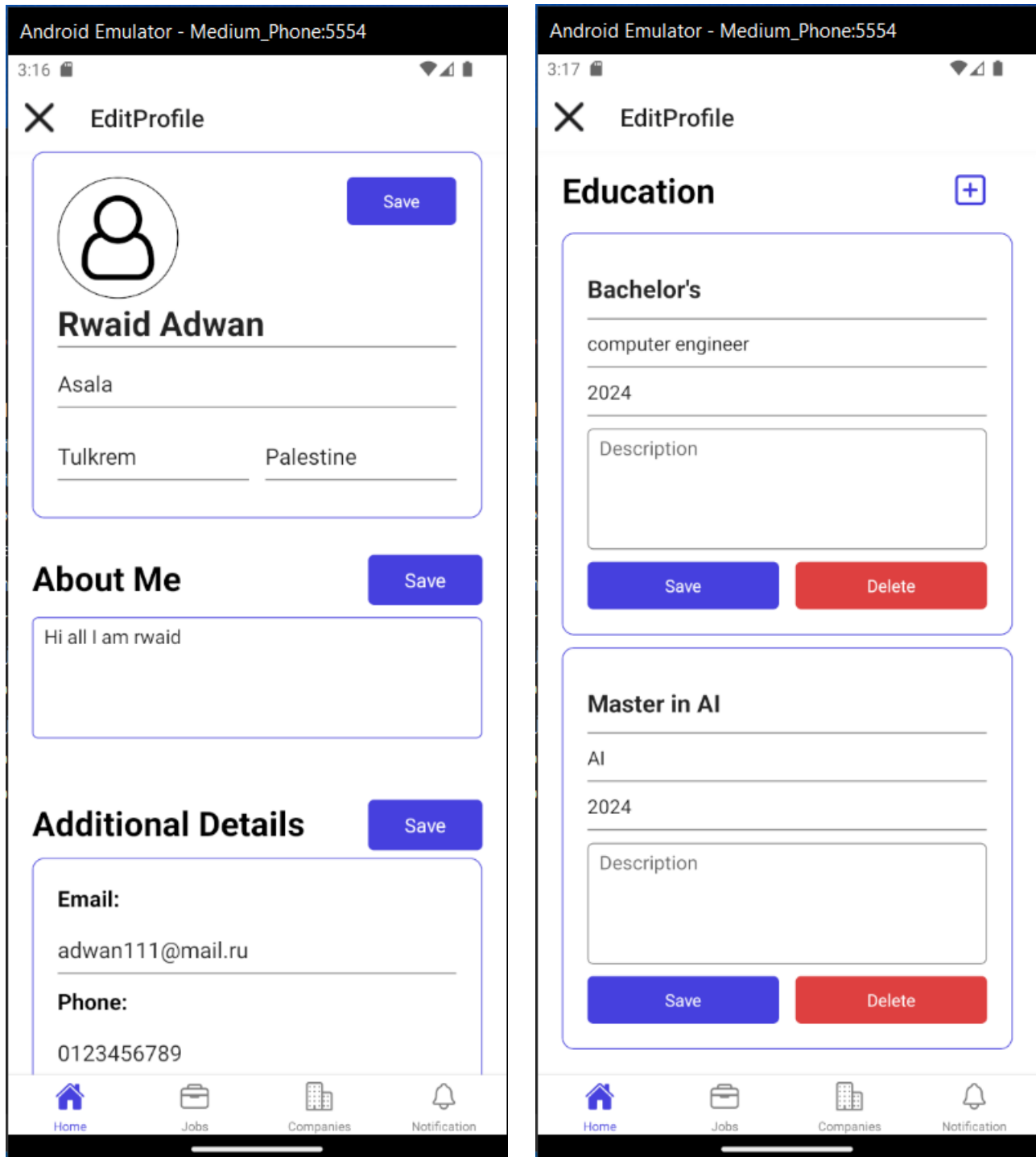


Figure 3.40: User Edit Profile

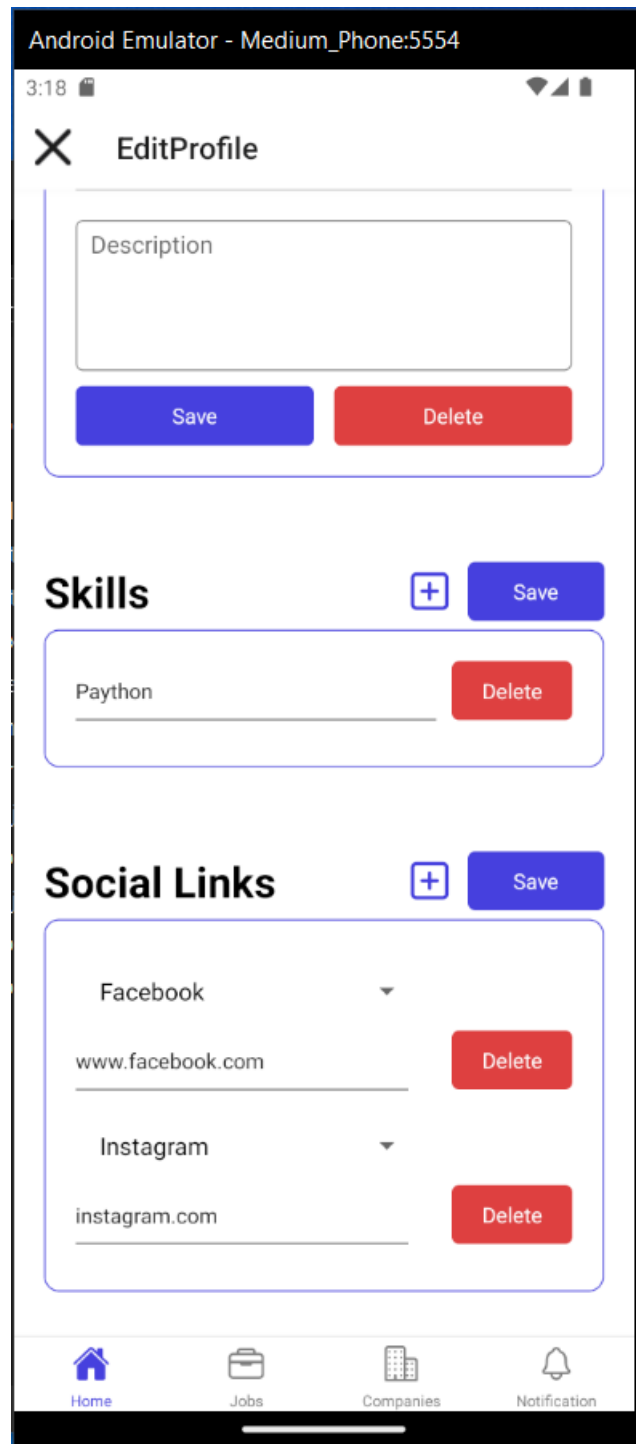
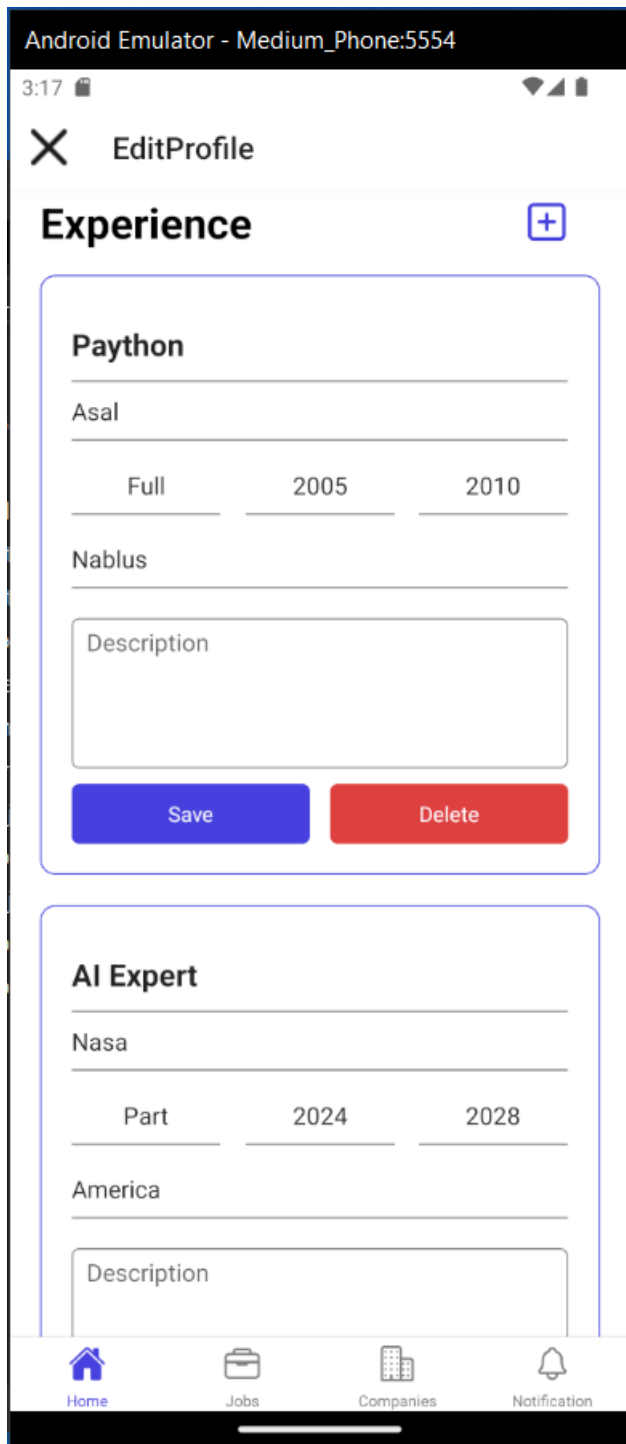


Figure 3.41: User Edit Profile

- All application of user and can see stats of it (in review ,or booking meeting or results of interview's)

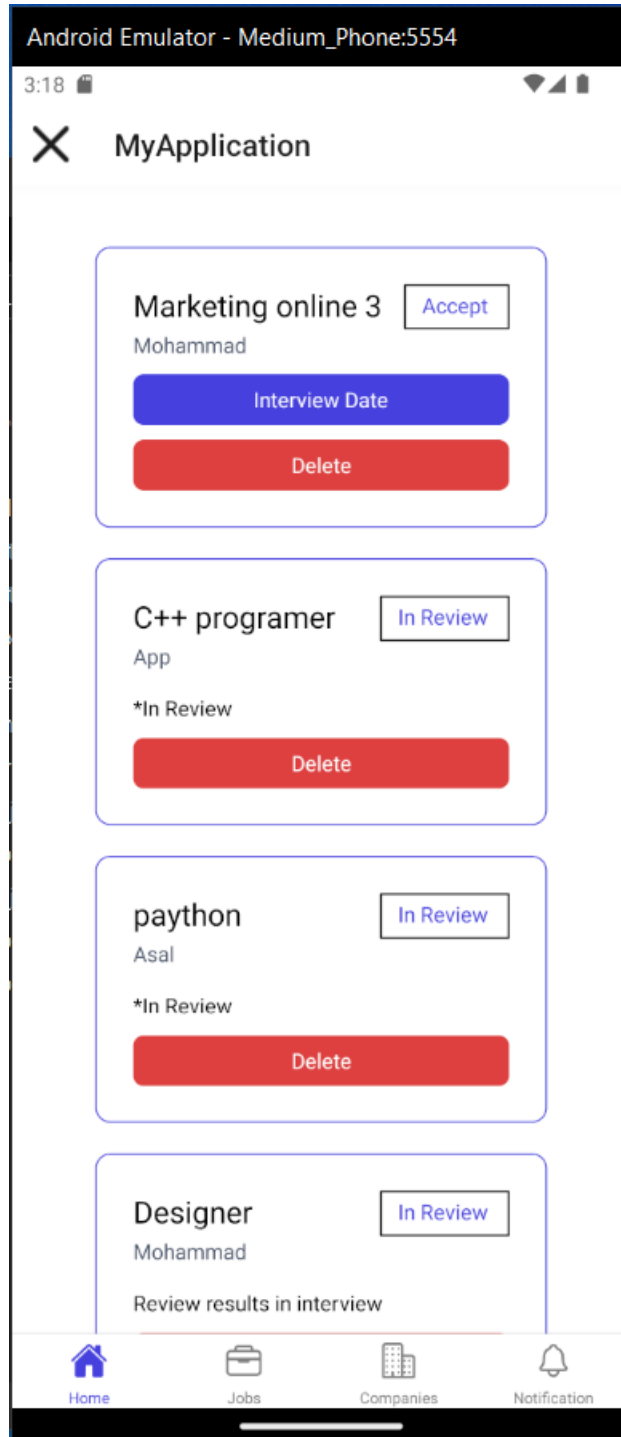


Figure 3.42: User Applications

- Interview booking date and choice is the interview online or face to face after accept CVs.  
All date by Company to do interview

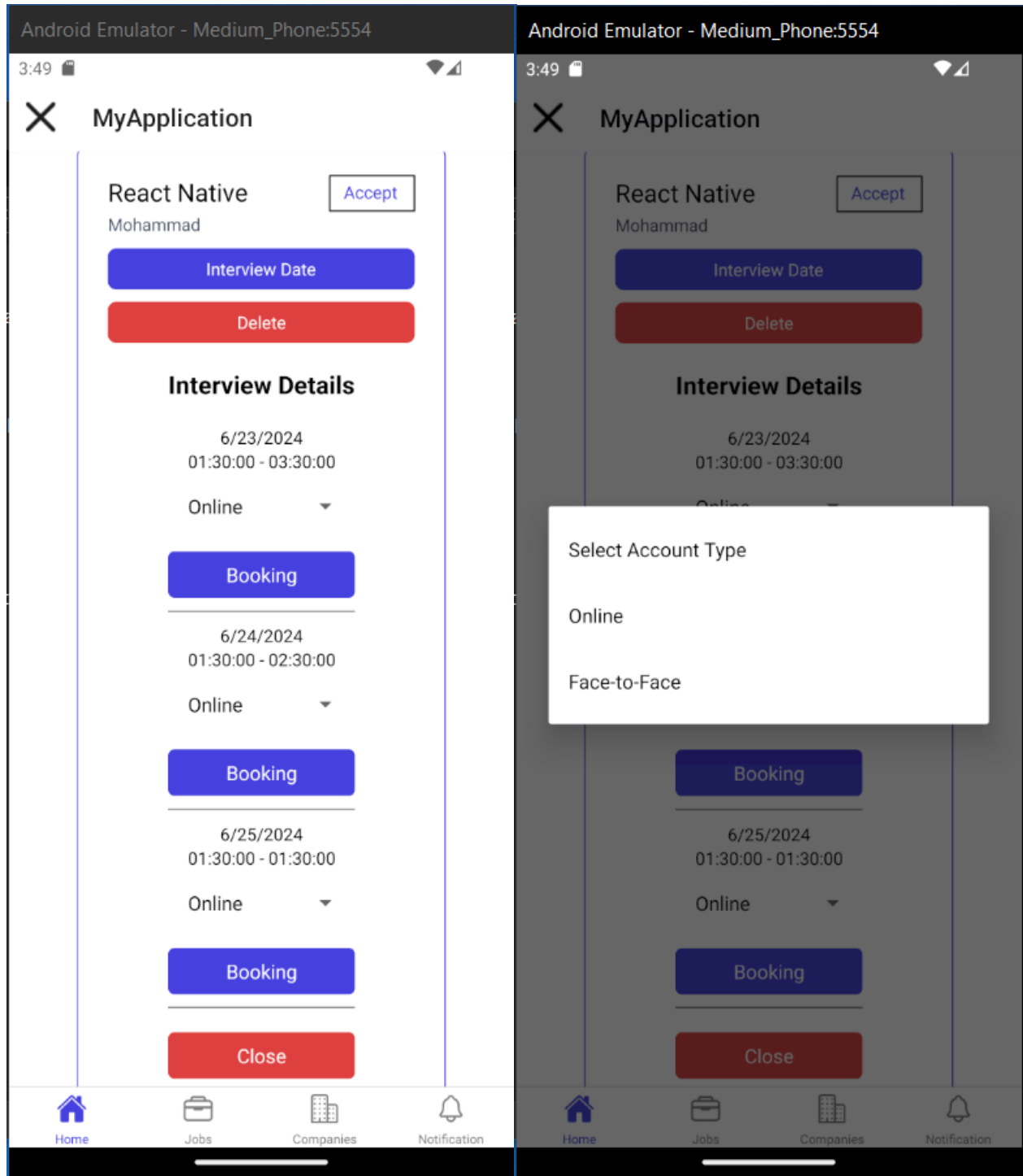


Figure 3.43: Meeting time for interview

- Stats after interview's (accepted or reject or in interviews)

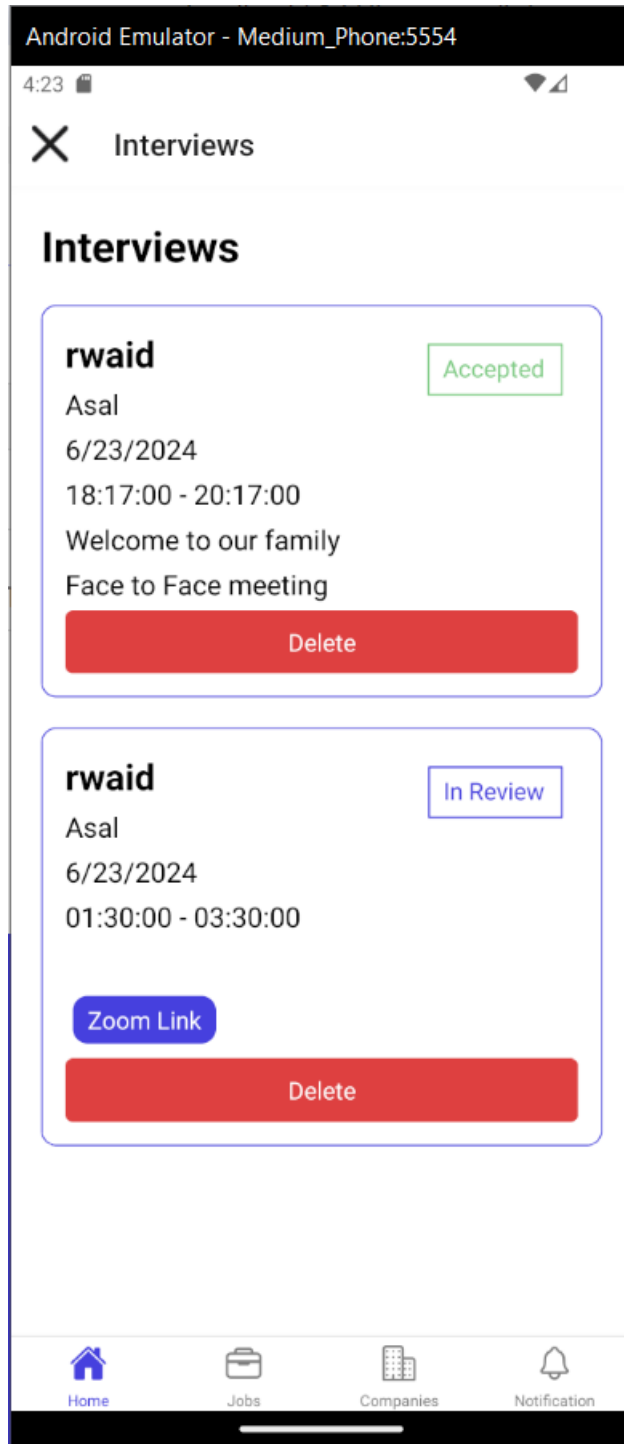


Figure 3.44: Interview's Time and State of interview

- The notification from the company reaches the user applying for a job when he is accepted or rejected for the job and the date of the interview if he is accepted or when there is an error in the files attached to the employment application.

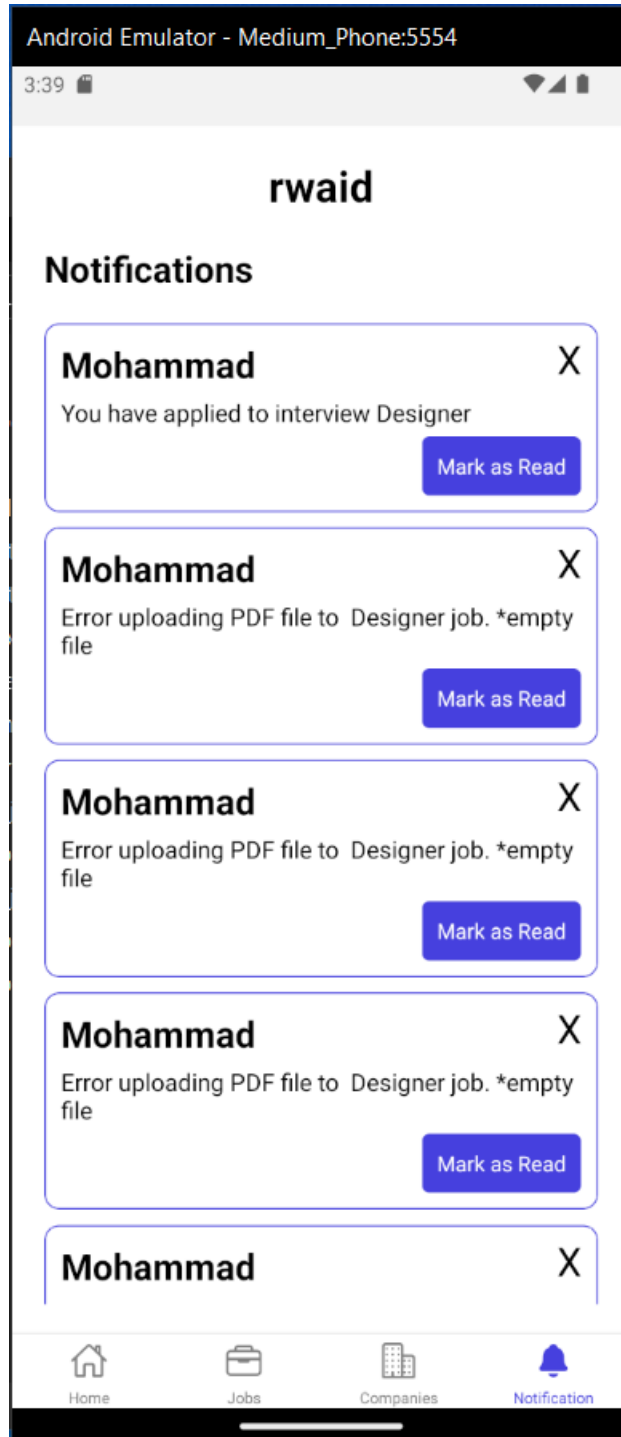


Figure 3.45: Notifications for users

- Add new User by Admin (Employee, Company and Admin)

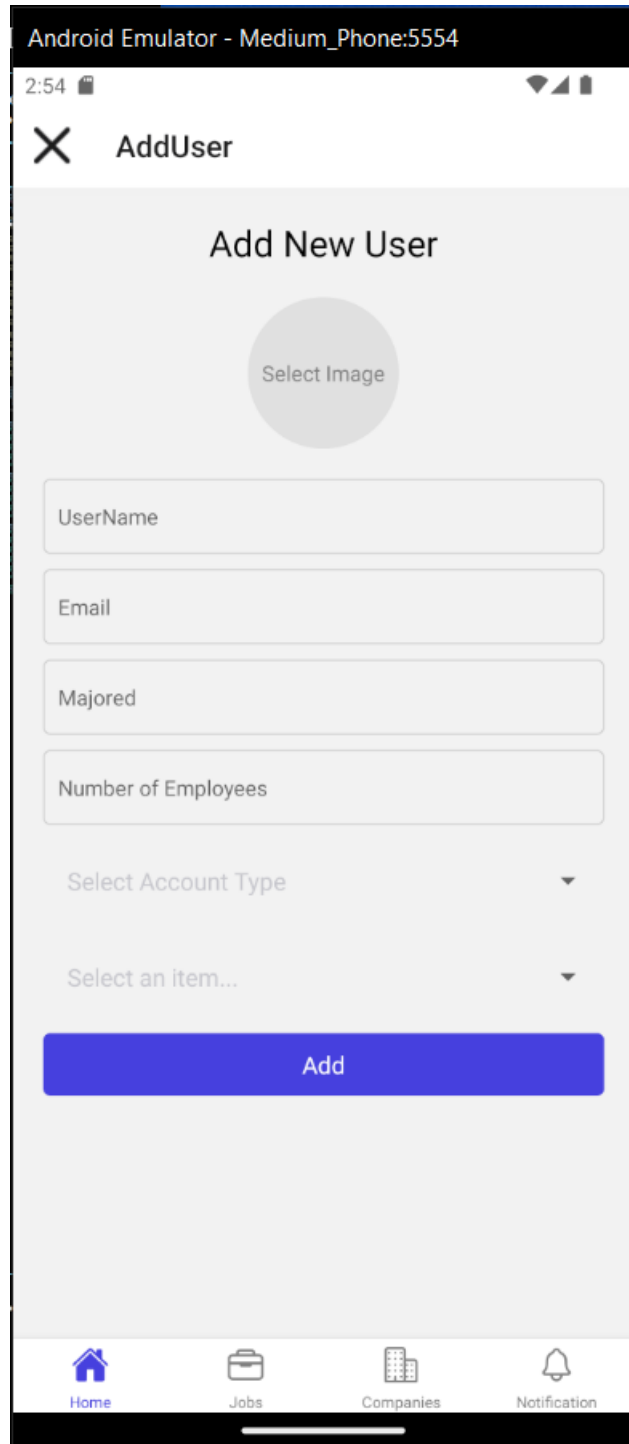


Figure 3.46: Admin Add User's



- Add new job by admin and if paid or not

Android Emulator - Medium\_Phone:5554

2:55

✕ AddJob

### Add New Job

Job Name

Job Time

Company Name

Job Level

Job Location

Salary

Job Category

Select Account Type

Job Description

Add

Home Jobs Companies Notification

Figure 3.47: Admin Add Jobs

- See users and edit their profiles

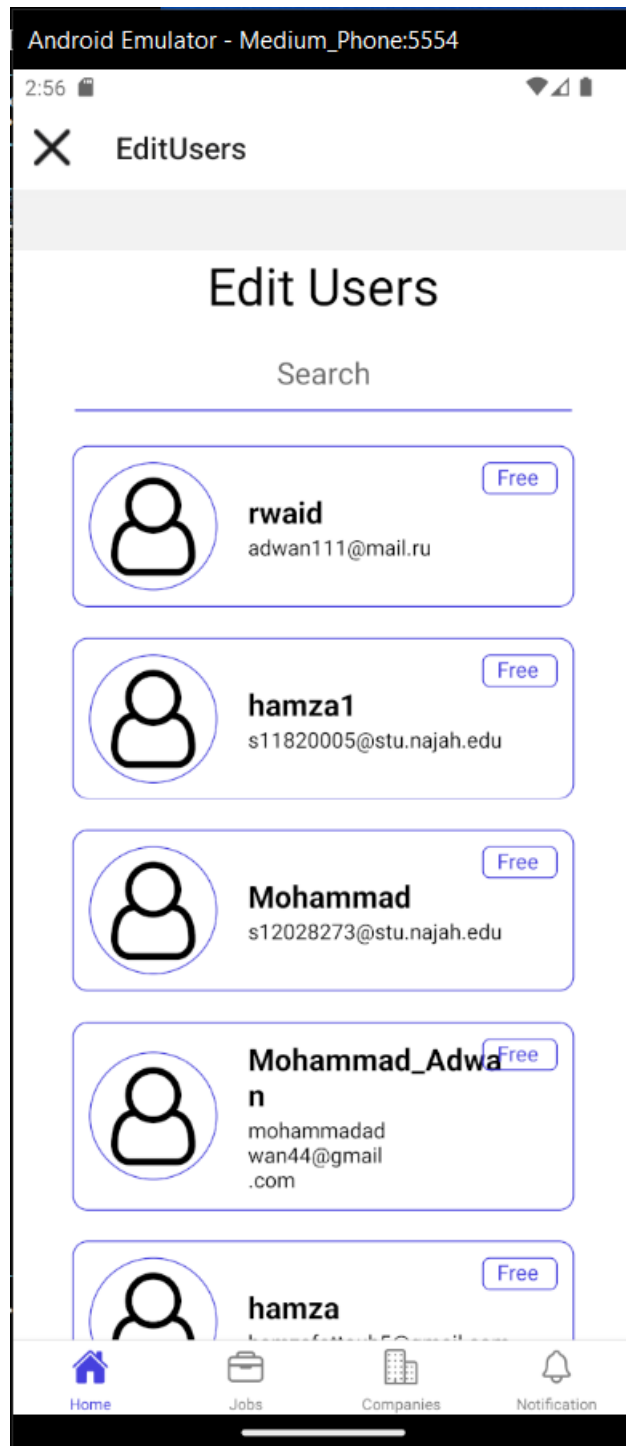


Figure 3.48: Admin Edit user And see Profile

- Accepts editing some sensitive information as name of Company and location as City and Country

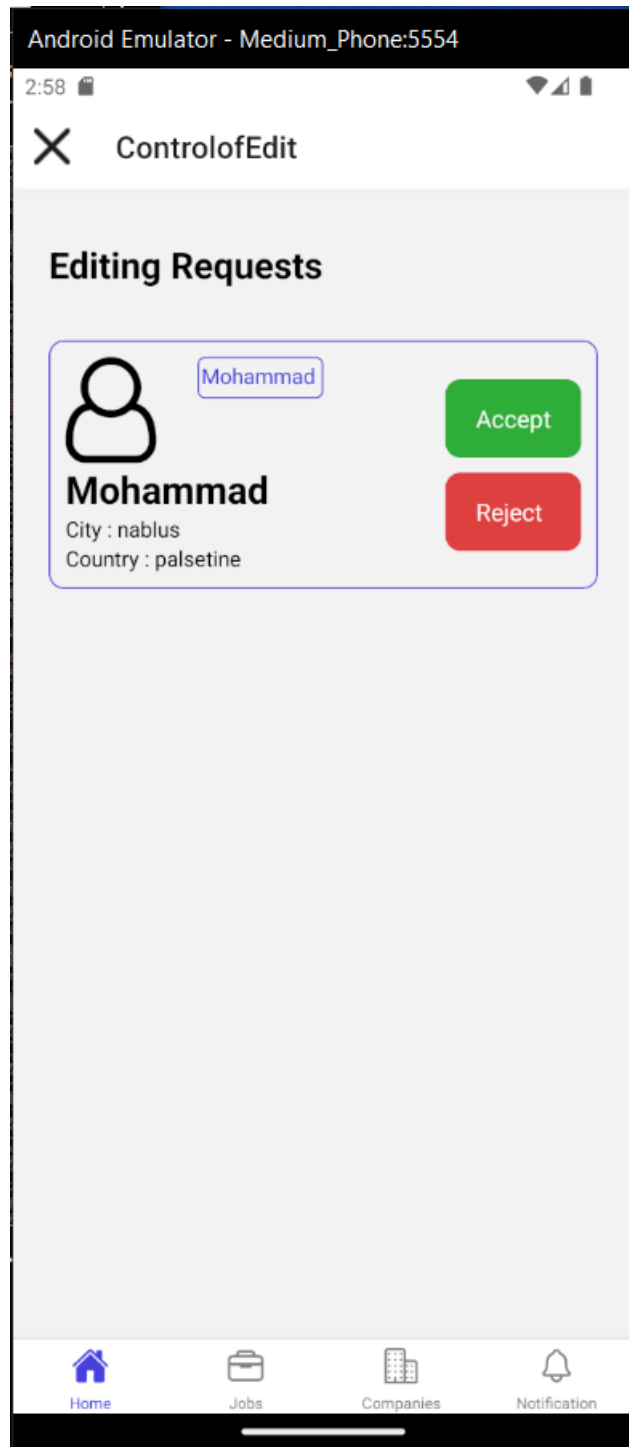


Figure 3.49: Admin Panel for Requests to modify profile information

- Company Profile see some information and her Jobs

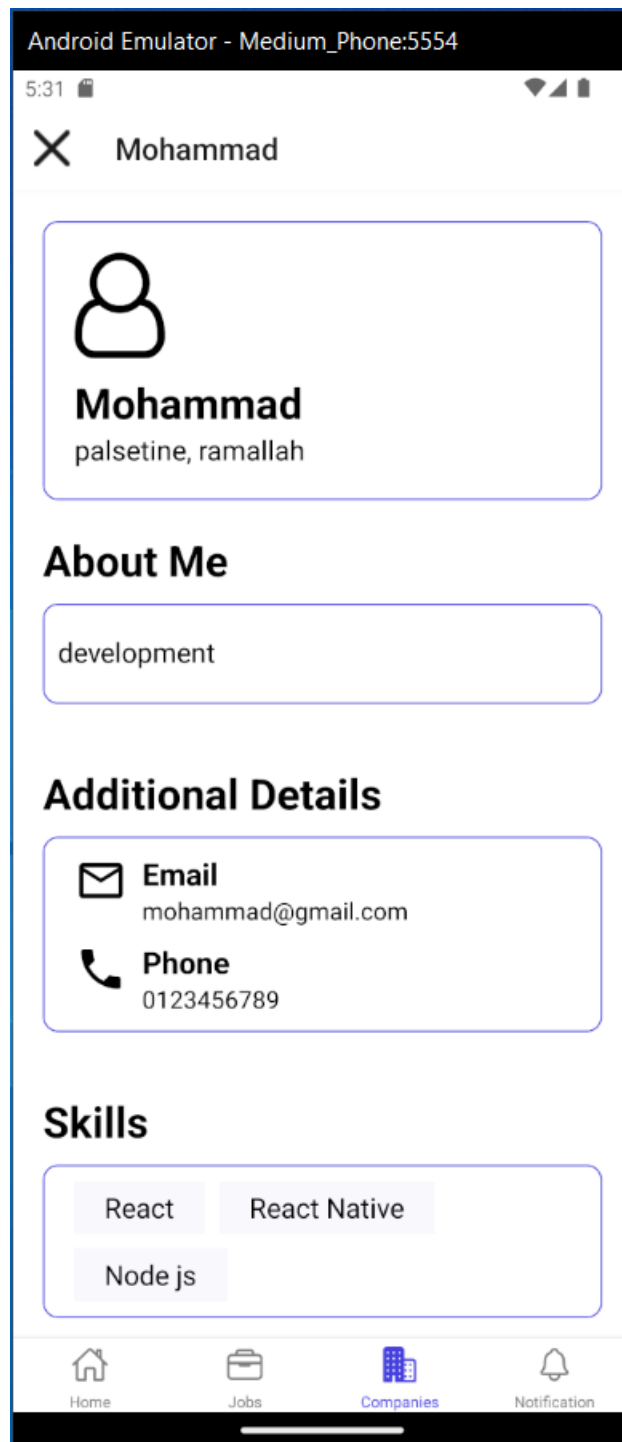


Figure 3.50: Company Profile

- Company Edit Profile

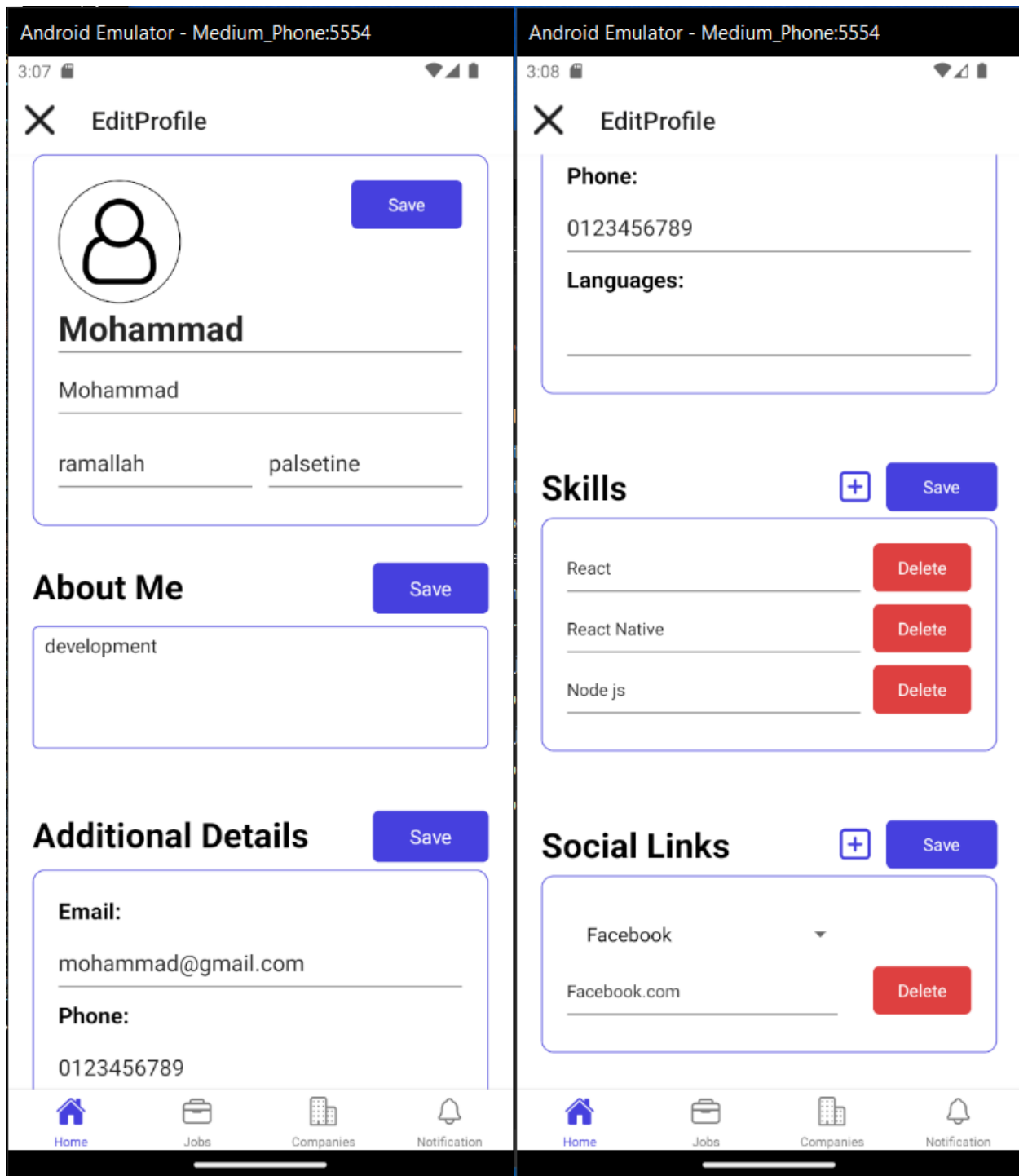


Figure 3.51: Company Edit Profile

- Company adds Job

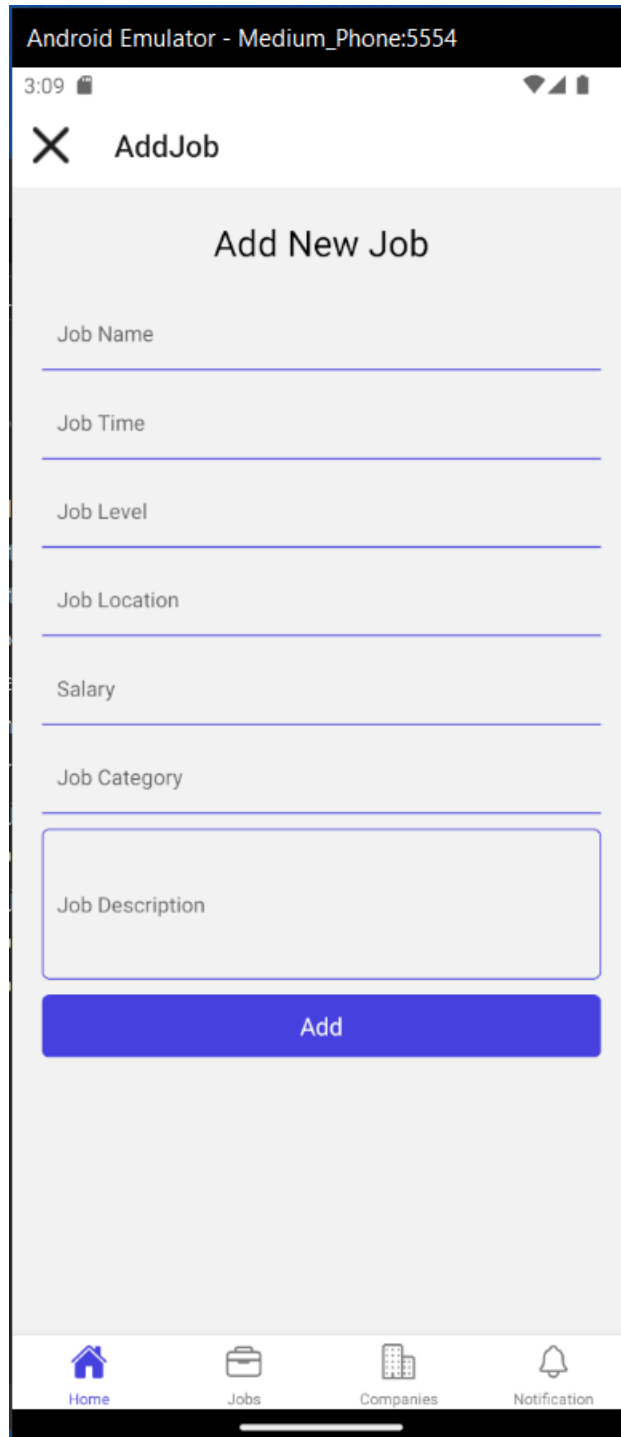


Figure 3.52: Company Add Job

- See all company jobs and edit them

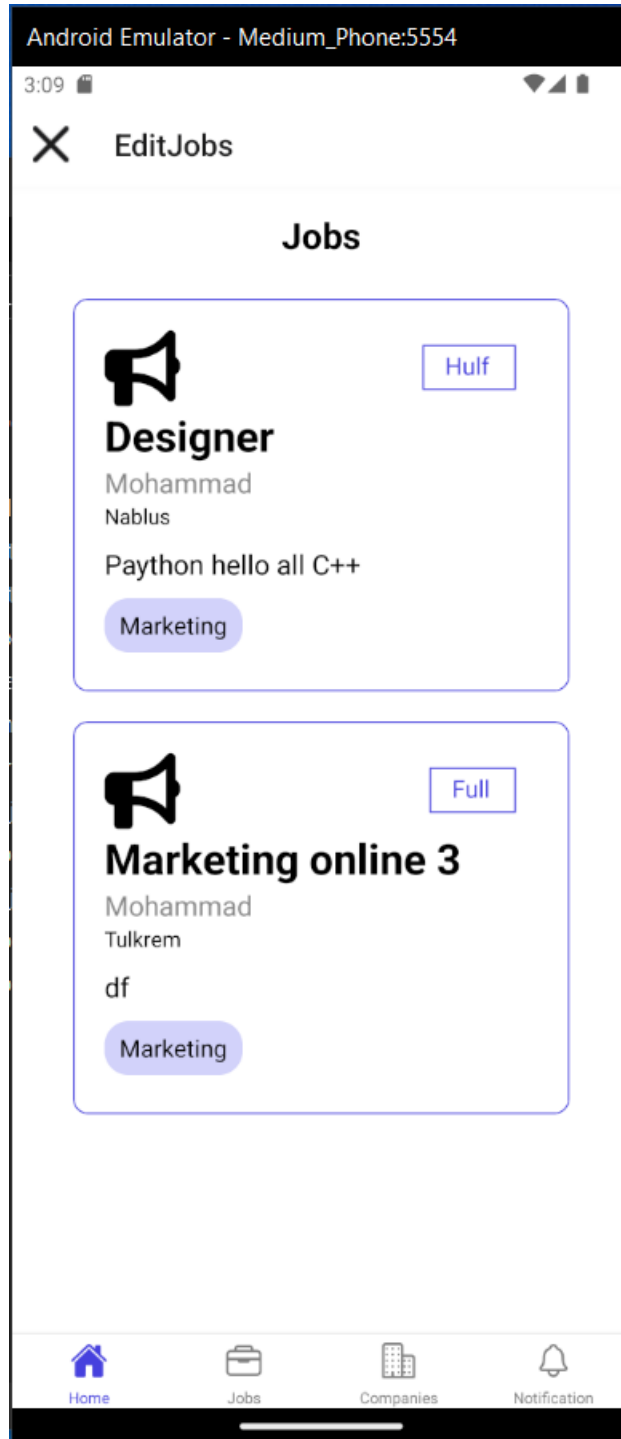


Figure 3.53: Company Jobs And edit it

- Edit jobs and see all apply of users that filters depends on location, experiences and skills

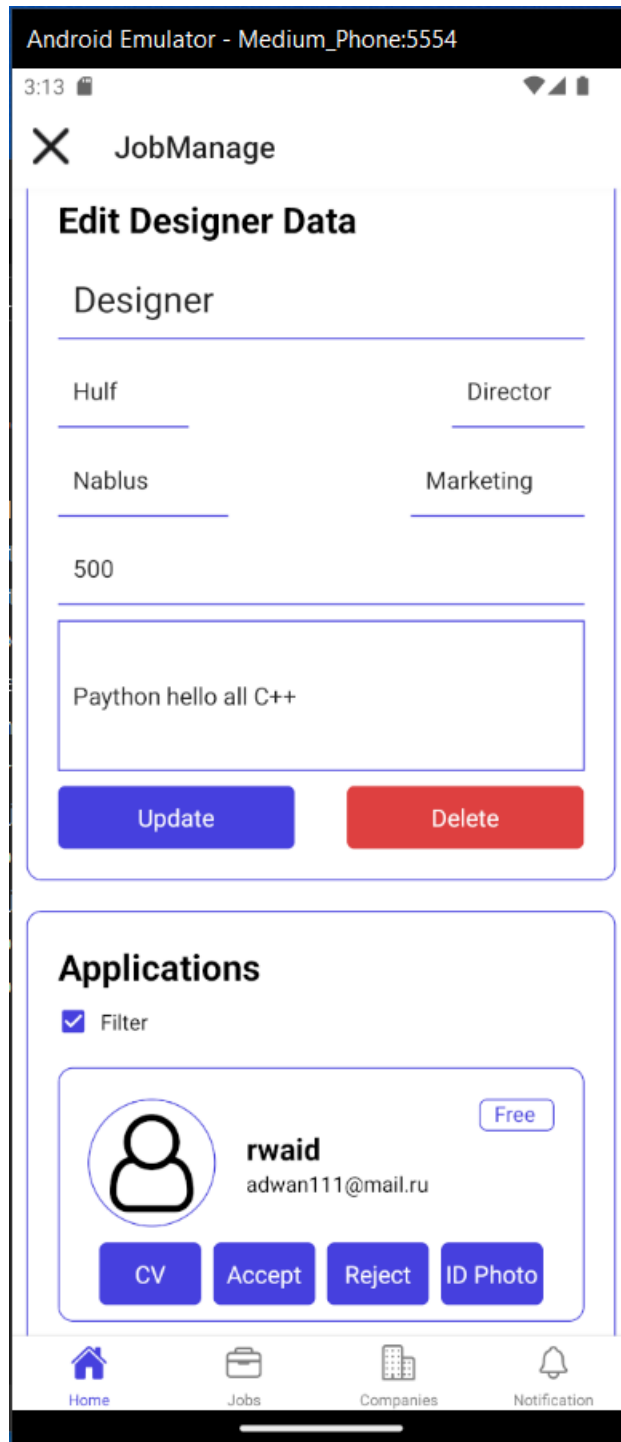


Figure 3.54: Company edit job and see applications and profile



- Chosen times and date for interviewing users

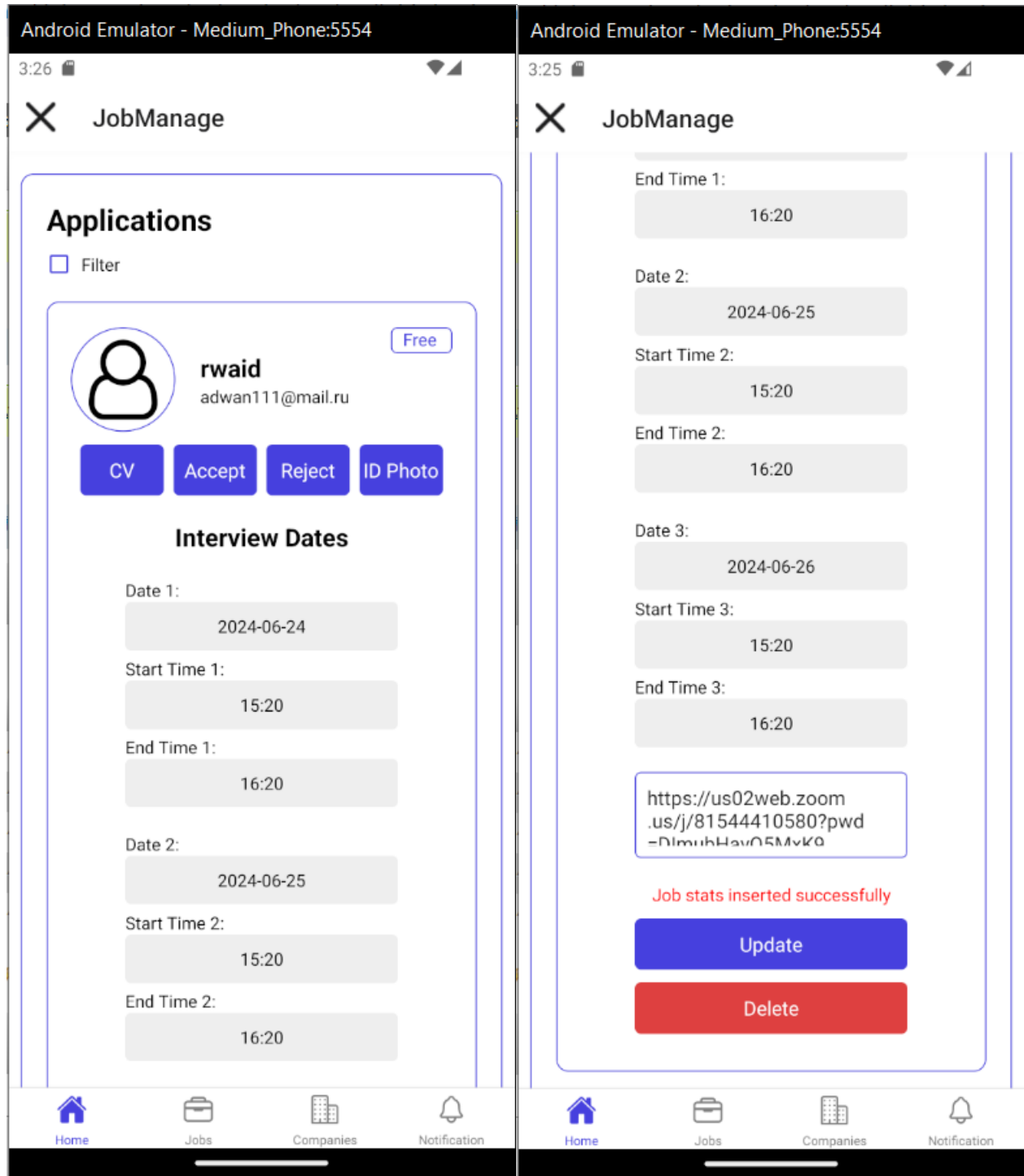


Figure 3.55: Company Set Times for interviews

- Accepts or reject users after interviews and add reason in description

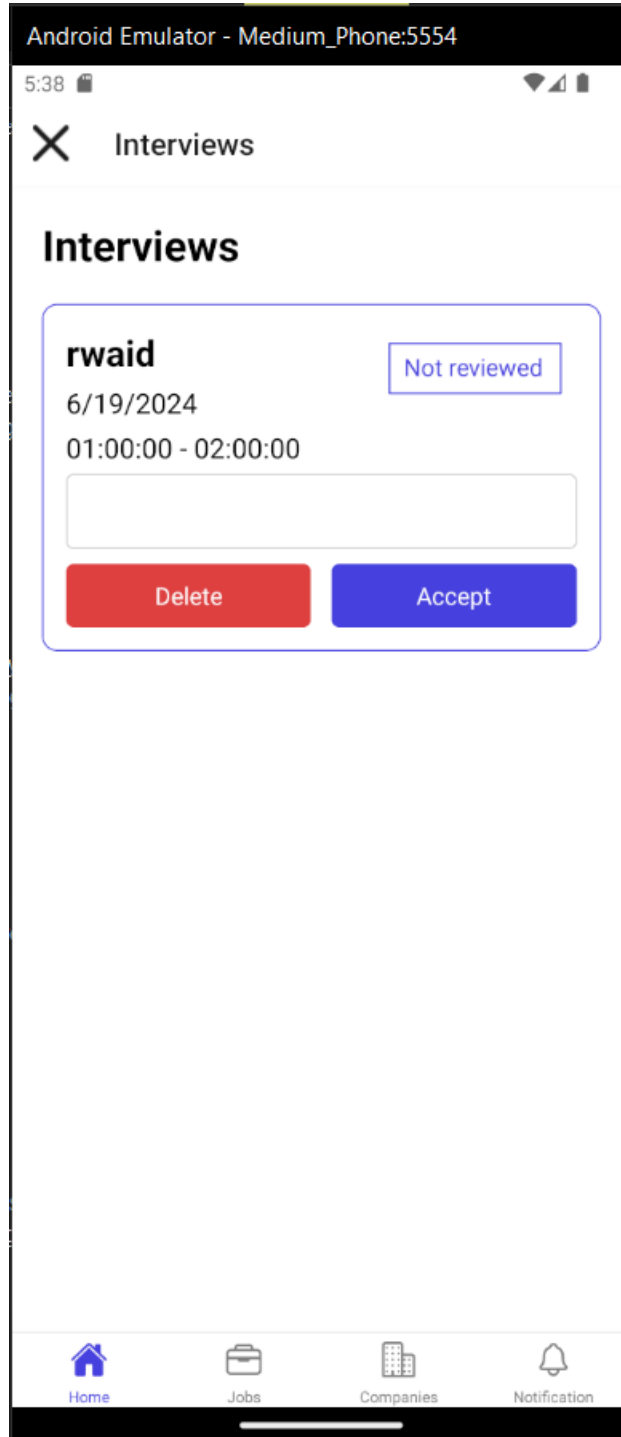


Figure 3.56: Response after Interview's and Descriptions

- All interviews and his stats

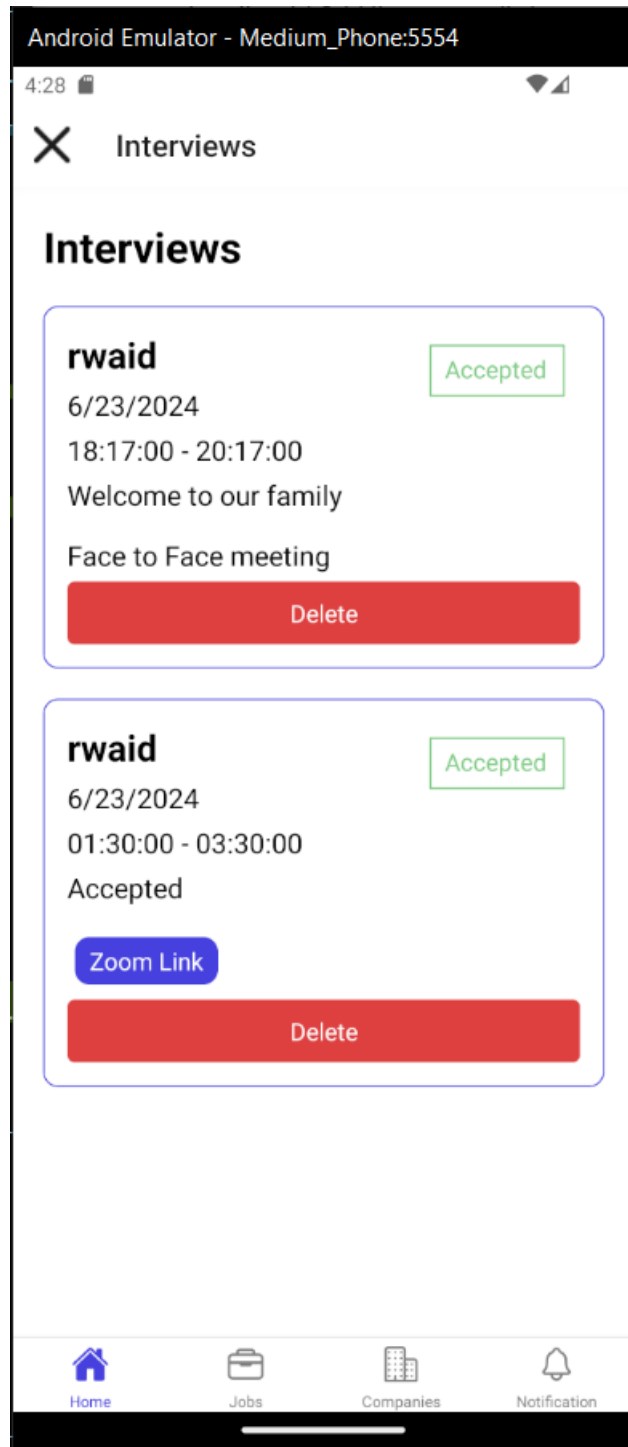


Figure 3.57: Stats of interviews

# Chapter 4

## **Results and Discussion**

### **4.1 Functionality and User Experience**

The success of the job search website and mobile app is largely dependent on its functionality and user experience. The platform has an easy-to-use layout that makes it simple for users to browse through all of its features. Simplified application processes customized job recommendations based on user profiles, and advanced job search filters are some of the key features.

### **4.2 Anticipated Impact on Service Providers**

Although service providers have not yet used the platform, expected benefits include the ability for them to quickly select qualified applicants from a huge number of applicants. Their workflow is streamlined by being able to post job postings, manage applications, and get in touch with candidates all in one location.

### **4.3 Anticipated Impact on Clients**

Although there isn't any direct user feedback available, its user-centric design and powerful features are expected to have an important effect on clients. The platform's ability to match users with relevant job opportunities based on their skills, experience, and preferences ensures that they are presented with suitable job listings. Features such as resume building tools, interview preparation resources, empower job seekers to present themselves effectively to potential employers.

### **4.4 Integrating Features from Existing Platforms**

The platform combines common features from other job search websites and mobile apps with advanced improvements to provide a competitive and complete solution.

## **4.5 Discussion**

The platform's development and implementation have been driven by an actual need to address the issues that both employers and job seekers face. Because usability and functionality are prioritized, the platform is both effective and easy to use. The platform's ability to speed up hiring and job search processes is shown by the expected impact on clients and service providers. by incorporating tested features from other platforms In a congested market, relevance and competitiveness are ensured. in the future if the project's overall success and positive feedback emphasize, its importance is to keep evolving and adapting in order to meet shifting customer demands and advances in technology.

# Chapter 5

## Conclusion

### 5.1 Summary

The project's goal was to close the gap between employers and job searchers by developing a straightforward but effective job-search website and mobile app. The major goal was to build a strong, user-friendly platform that enhances job searches and enhances the relation between employers and job searchers. The primary functions of the application and its positive response attest to the achievement of that goal. The easy to use design, advanced search features, customized job recommendations, and accelerated application processes make it easier than ever for job seekers to find their ideal chances and for employers to locate the best employees.

### 5.2 Recommendations for Improvement

There are still a lot of things that may be done better to enhance the general efficacy and user experience of the platform .First, applying machine learning algorithms and modern artificial intelligence that might enhance the quality of job filtering to provide users with custom and CVs Filtering to provide company with custom suggestions for the best chose of employee .In addition, including additional functions like CVs video submission and making online virtual interviews could enhance the hiring process even more .Including a feedback system where job seekers and companies could provide reviews and making rating would further increase confidence and transparency . Finally, continuous feedback collection and user testing should be given top importance in order to guarantee that the platform adapts in line with user needs and advances in technology. This will help in discover and resolving any usability issues quickly.

### 5.3 Lessons Learned

Many lessons and skills have been gained during the creation and implementation of the platform. The important of designing with but users in mind is one the most important lesson that should be learned building a platform that meets users demands requires early interaction and feedback from users to gather input. The project additionally showed the importance it is to have effective safety measures in place in order to protect user information and trust.

## 5.4 Future Work and Directions

- Support several languages
- Adding more Advance Filtering CVs And Jobs using Artificial intelligence.
- Allow chatting Between user and Company.
- CVs video submission.
- Making online virtual interviews.

## 5.5 References:

- [1] Ten, A. C., & Paz, F. (2017). A systematic review of user experience evaluation methods in information driven websites. In *Design, User Experience, and Usability: Theory, Methodology, and Management: 6th International Conference, DUXU 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part I 6* (pp. 492-506). Springer International Publishing.
- [2] Jongmans, E., Jeannot, F., Liang, L., & Dampérat, M. (2022). Impact of website visual design on user experience and website evaluation: the sequential mediating roles of usability and pleasure. *Journal of Marketing Management*, 38(17-18), 2078-2113.
- [3] Alshayban, A., Ahmed, I., & Malek, S. (2020, June). Accessibility issues in android apps: state of affairs, sentiments, and ways forward. In *Proceedings of the ACM/IEEE 42nd International Conference on Software Engineering* (pp. 1323-1334).
- [4] Madhusudhan, R., & Surashe, S. V. (2022, March). Privacy and security comparison of web browsers: A review. In *International Conference on Advanced Information Networking and Applications* (pp. 459-470). Cham: Springer International Publishing.