

DPT5101 FINAL YEAR PROJECT

INTERIM REPORT

Students are required to complete all fields.

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[] Multimedia System

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Abstract

FlexWaves is a dynamic and modern platform for recruiting that aims to completely transform Malaysian job searching. This report gives a thorough overview of the FlexWaves project, including information on its features, architecture, and the objectives that directed the project's development. The platform offers a smooth message experience, customised job notifications, and a user-friendly interface designed to address common issues encountered by employers and job seekers. By integrating a strong rating and review system, FlexWaves hopes to improve flexibility and confidence in the employment market. In addition, the platform gives users the tools they need to organise their job applications effectively and has a dedicated Academy with learning materials to support skill development. FlexWaves aims to establish a centralised Jobs Hub Platform that facilitates communication between qualified candidates and potential employers. The project seeks to provide a comprehensive solution for both employers and job seekers by balancing the digital and human elements of job hunting. This report provides an overview of FlexWaves' key characteristics, goals, and the revolutionary changes it hopes to bring about in Malaysia's job market as it develops.

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1.1 Overview

The development of the internet represents a significant turning point in the records of human history. The advent of information technology has had a profound impact on various aspects of society, including communication, information transmission, and corporate operations. In the 1960s and 1970s, the Internet was used mainly for military and educational purposes. Nonetheless, it was only in the 1990s that the World Wide Web attained public availability to individuals and enterprises.

In modern times, the internet and mobile devices significantly influence the gig employment environment. Gig workers utilise digital platforms and smartphone applications to establish connections with employers, identify job prospects, organise their work schedules, and get paid. The increasing popularity of mobile technology has significantly enhanced the accessibility of part-time and gig jobs, thereby transforming cell phones into essential instruments for this objective.

Due to the widespread effect of the internet and mobile technology, the employment and job-seeking situation has undergone significant changes in the modern era. This evolution has significantly impacted how individuals pursue and engage in part-time and gig work globally and in Malaysia. In the pre-internet era and before the spread of modern technologies, obtaining employment in Malaysia, comparable to numerous other regions globally, primarily relied on conventional approaches. Individuals mostly relied on personal networks, word-of-mouth recommendations, and local adverts in newspapers or community boards as their main strategies for securing part-time or full-time employment. Employment searchers frequently attended physical hiring offices or sent hard copies of their resumes to recruiters.

In comparison with modern digital technologies, the previous approach to job searching was often slower and more constrained in its application. The absence of immediate information retrieval and job advertisements required persons to depend on local prospects, resulting in a prolonged and challenging effort to secure suitable employment. The development of the internet and mobile devices has further transformed this procedure, providing a significantly broader and more effective array of employment-seeking alternatives.

The gig economy and part-time jobs in Malaysia have experienced a significant increase in recent years. Various variables, including a preference for flexible work arrangements, economic considerations, and developments in digital technology, can describe this phenomenon. A significant number of persons in Malaysia, particularly students, freelancers, and those in need of additional income, have embraced gig work as a feasible alternative.

The gig economy in Malaysia consists of various industries, such as ride-sharing, food delivery, freelancing services, and event-based jobs. Prominent companies such as Grab, Foodpanda, and different freelance platforms have emerged, hence generating innovative prospects for gig workers. The growing rivalry within the industry has driven enterprises to engage in innovation and enhance the working conditions of gig workers while simultaneously addressing worries relating to job stability and employee benefits.

Flexwaves is a dynamic and innovative organisation that aims to assist individuals in pursuing employment opportunities. The terminology in question combines the term "flex," indicating the capacity for flexibility in employment prospects, with "waves," creating a sense of a dynamic and constantly evolving job marketplace. The proposed name possesses simplicity and memorability and effectively communicates the essential characteristics of the company. FlexWaves serves as a transformative force within the employment sector of Malaysia, extending beyond its role as a mere gig job platform. Our organisation is actively transforming the process by which individuals seek employment and businesses handle their workforce requirements while embracing the gig economy's fundamental adaptability. Our constant dedication to our purpose, fundamental principles, and high-quality service establishes us as a leading entity in the gig job sector, prepared to enable individuals seeking employment and businesses to flourish in this ever-changing employment era.

1.2 Project Objectives

- **To notify job seekers about available jobs.**

FlexWaves intends to inform job seekers of the most recent job postings that match their preferences. Through job alerts and notifications, the platform notifies users of relevant employment opportunities, ensuring that job seekers are always up-to-date without having to search for searching manually.

- **To allow users to manage their jobs and applications efficiently.**

FlexWaves wants candidates to keep organised and on track with their jobs. It enables the user to manage their jobs efficiently.

- **To provide educational and skill-building resources to job seekers.**

FlexWaves is dedicated to the professional development of individuals seeking employment. The platform provides access to various educational resources, courses, and skill-building materials through its Academy. This will enable job candidates to improve their credentials, acquire new skills, and become more competitive.

1.3 Target Users

1. SPM leavers

Sijil Pelajaran Malaysia (SPM) graduates frequently find themselves at the turning point of their lives as they navigate their way from secondary education to the realm of adulthood. A significant portion of individuals have a strong desire to begin generating financial resources and get hands-on professional experience.

2. Graduate

Graduates frequently encounter challenges as they move from the academic to the work environment. FlexWaves can be a beneficial tool for recent graduates seeking to acquire hands-on work experience, enhancing their prospects when seeking permanent employment within their respective industries.

3. Job seekers

The economic crisis can generate a sense of worry regarding the future, causing job seekers to be concerned about their long-term career prospects. Numerous individuals are eager to secure long-term employment to withstand the economic storm. With increased demand in some industries, such as e-commerce and healthcare, and lower demand in others, the pandemic also expedited changes in the labour market. Job candidates were required to adapt rapidly to these changes.

1.4 Project Scope

The primary objective of the FlexWaves Gig Job Platform is to provide a broad and user-oriented ecosystem that facilitates the connection between those seeking employment and flexible, part-time, and gig job prospects within diverse sectors in Malaysia. The project scope outlines the primary domains, characteristics, and capabilities encompassed by the system, along with its constraints. From a geographical point of view, the platform's primary focus lies within the Malaysian market, especially in Klang Valley. However, exploring prospective expansion opportunities in other regions is a viable option. The primary objective of FlexWaves is to offer up-to-date job listings, allowing users to access current employment prospects as needed immediately. Additionally, the platform empowers users to establish their availability and work schedules per their preferences and obligations. The users can see the job listing on the main page.

Implementing a secure and transparent payment processing system would support a wide range of payment ways to enhance efficiency for gig workers. Upon completing the jobs, they must receive approval from the organisation before receiving the corresponding amount credited into their account. Utilising work-matching algorithms and real-time communication technologies will facilitate the optimisation of job delivery processes and enhance the effectiveness of collaborative efforts. The establishment of cancellation policies and guidelines will provide clarity regarding employment withdrawals and possible refund adjustments.

However, it is crucial to understand that FlexWave has inherent limitations like any other platform. These limitations encompass regional restrictions and changes in job opportunities. The platform listing and services will only be limited to Malaysia. The availability of jobs also depends on the market. It may vary based on the demand and the organisation to use the platform. Despite these constraints, FlexWaves aims to offer its intended users a valuable and dependable service to its intended users while actively addressing these concerns.

2.1 Primary Study / Literature Research

SimplyHired.com

Functions:

Simply Hired is a job search engine that compiles job ads from numerous websites, job boards, and social media platforms. Users can use it to look for employment based on keywords, locations, and other factors.

Design:

The design of Simply Hired is simple and straightforward. The homepage features a search bar where users can enter keywords to search for jobs. The location, job type, and other filters are also available to users to narrow their search results further. Each entry for a job includes the company name, job title, location, and salary range is presented in a list format.

Features:

Simply Hired offers many features to help users find jobs, including

- **Resume posting:** Users can create and post their resume on Simply Hired. This feature allows businesses to view their resume when they search for applicants for open positions.
- **Salary estimator:** It is a helpful tool for job seekers trying to get an idea of what they can expect to earn in a given role. It is also a helpful tool for employers who are trying to set competitive salaries for their open positions.
- **Company reviews:** Users are able to read and publish reviews of companies that they have interviewed or worked for. This may help other users learn more about a company before submitting a job application.

Advantages	Disadvantages
Resume posting	No jobs alert
Salary estimator	No tracking system
Company reviews	Limited verification of job listing

Table 2.1: Advantages and disadvantages of SimplyHired.com

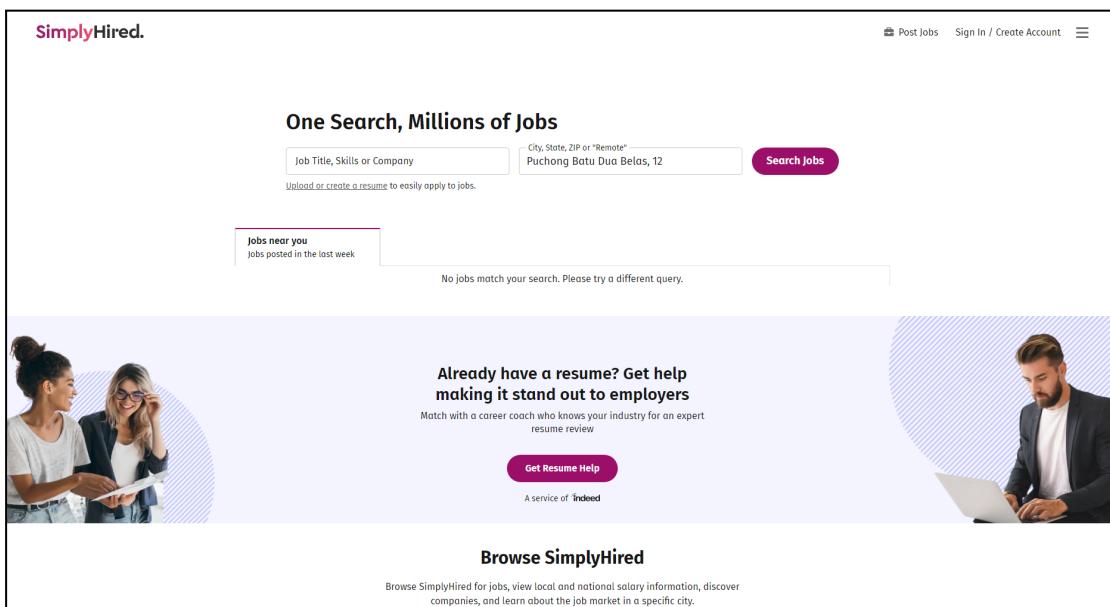


Figure 2.1: Simply Hired home page.

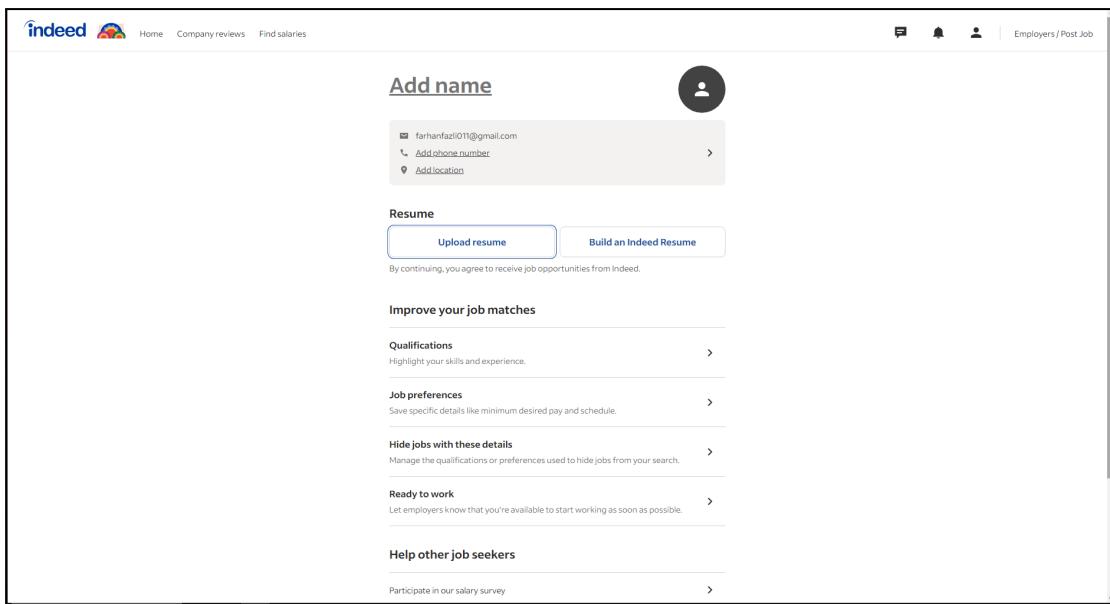


Figure 2.2: Simply Hired profile page where job seekers can customise their profiles and upload their resumes.

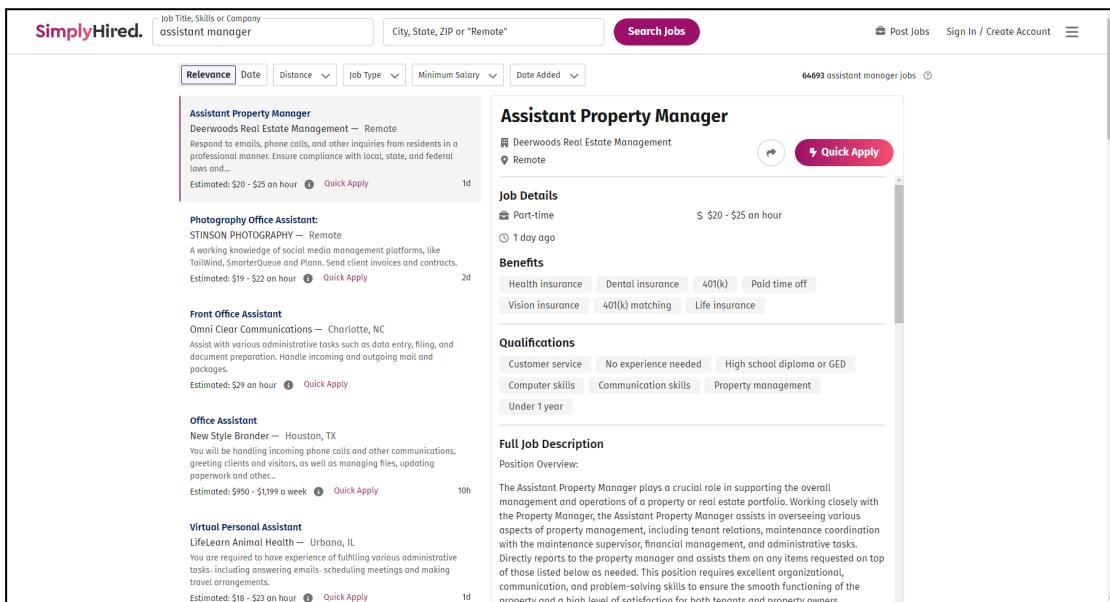


Figure 2.3: Simply Hired job search page where job seekers can look for open positions according to their location and skill sets.

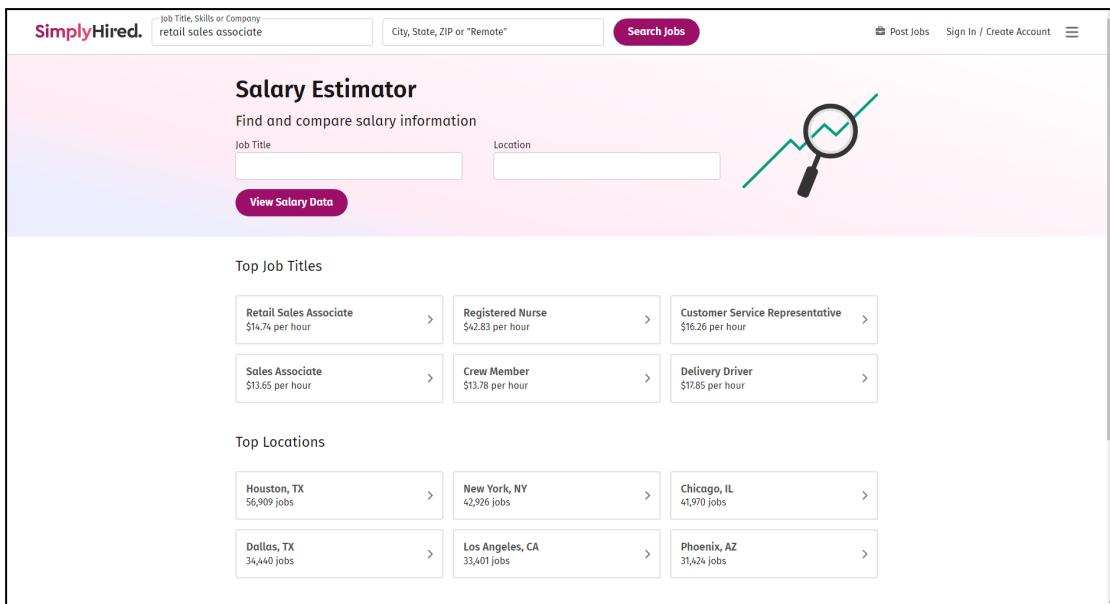


Figure 2.4: Simply Hired salary estimator page, where users can find the average salary of chosen jobs in the area.

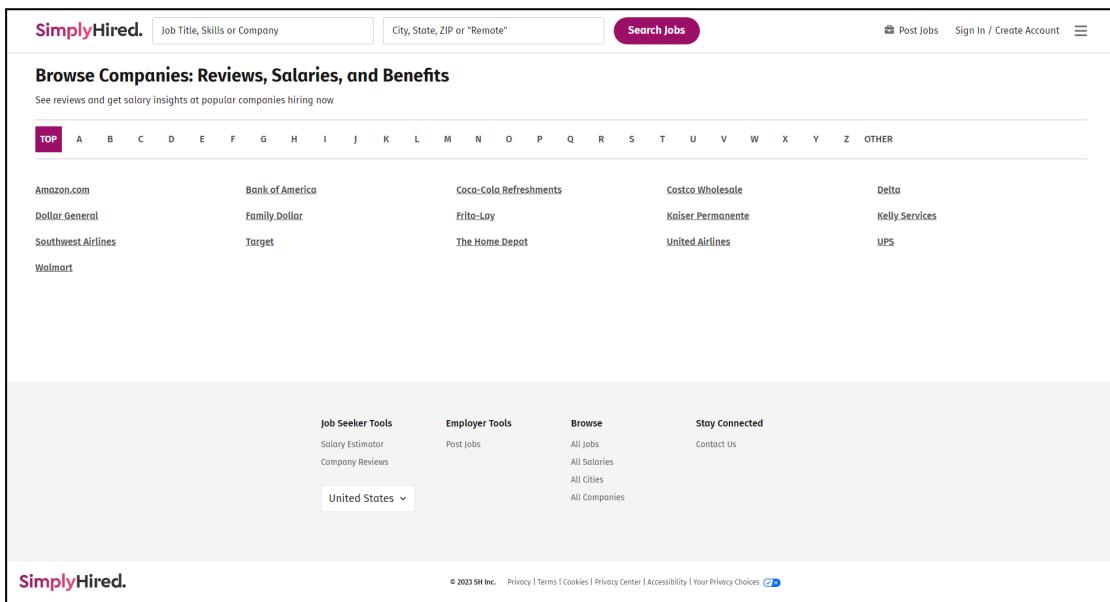


Figure 2.5: Simply Hired company reviews, where job seekers can post or read company reviews

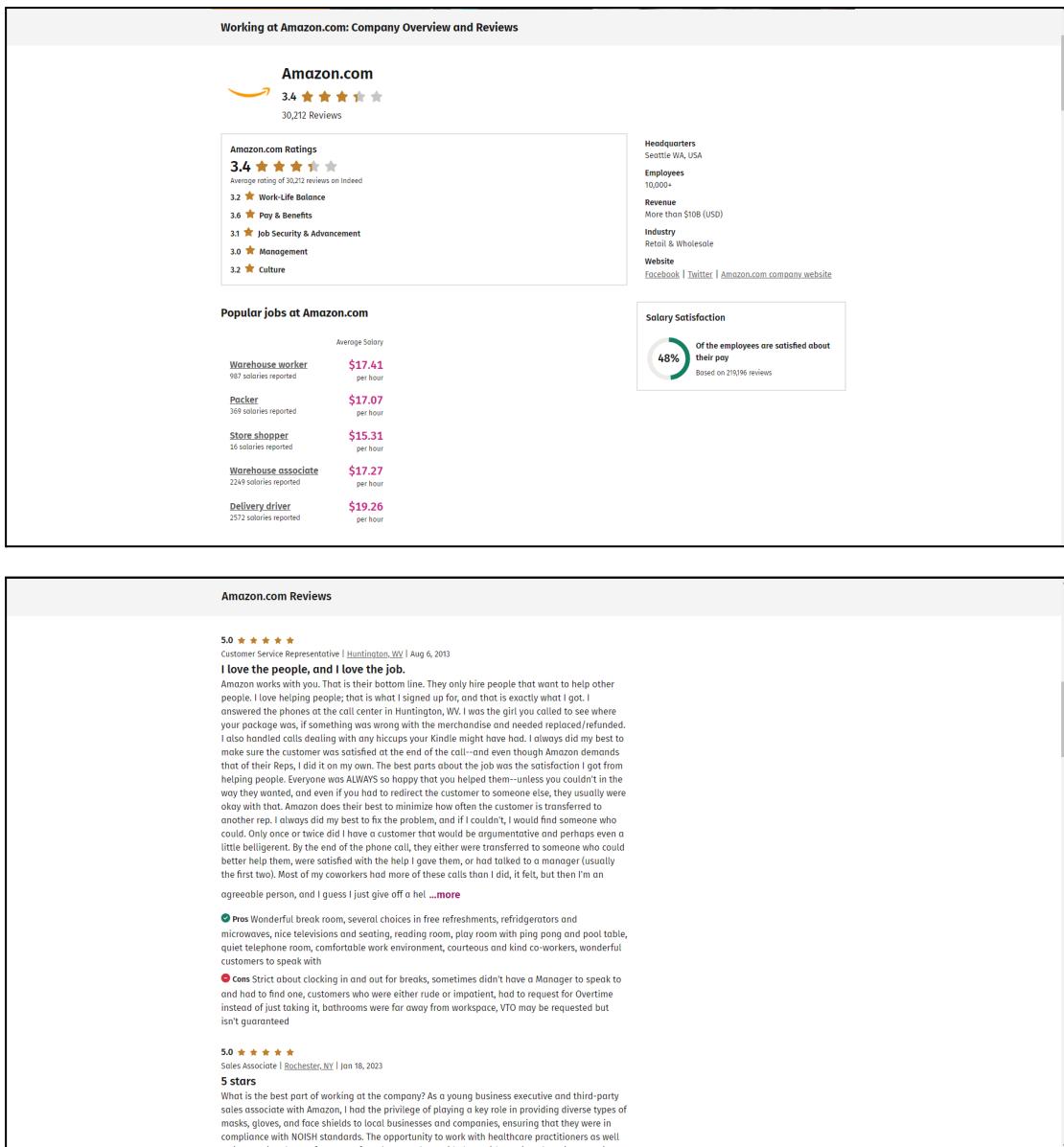


Figure 2.6 & 2.7: Simply Hired company reviews, example amazon.com.

Troopers

Troopers is a Malaysian job search engine that concentrates on flexible work, such as part-time, freelance, and gig economy positions. Francesca Chia, Muaz Jemaa Khan, and Tai Fung Wei Tan founded it in 2014. The company's headquarters are in Kuala Lumpur, and the platform has over 1 million users and over 10,000 employment listings. Troopers is a mobile-first platform on the App Store and Google Play. Freelancers can explore the platform and apply for tasks posted by businesses. Troopers is a well-known job-searching website in Malaysia, and it is expanding swiftly. The company is committed to increasing the accessibility and affordability of flexible work for all employees.

The diagram below is an example of the home page for job seekers. The user can apply for the job by clicking on the job that they want to apply. It also has search and filter features at the top right corner.



Figure 2.8: Troopers homepage

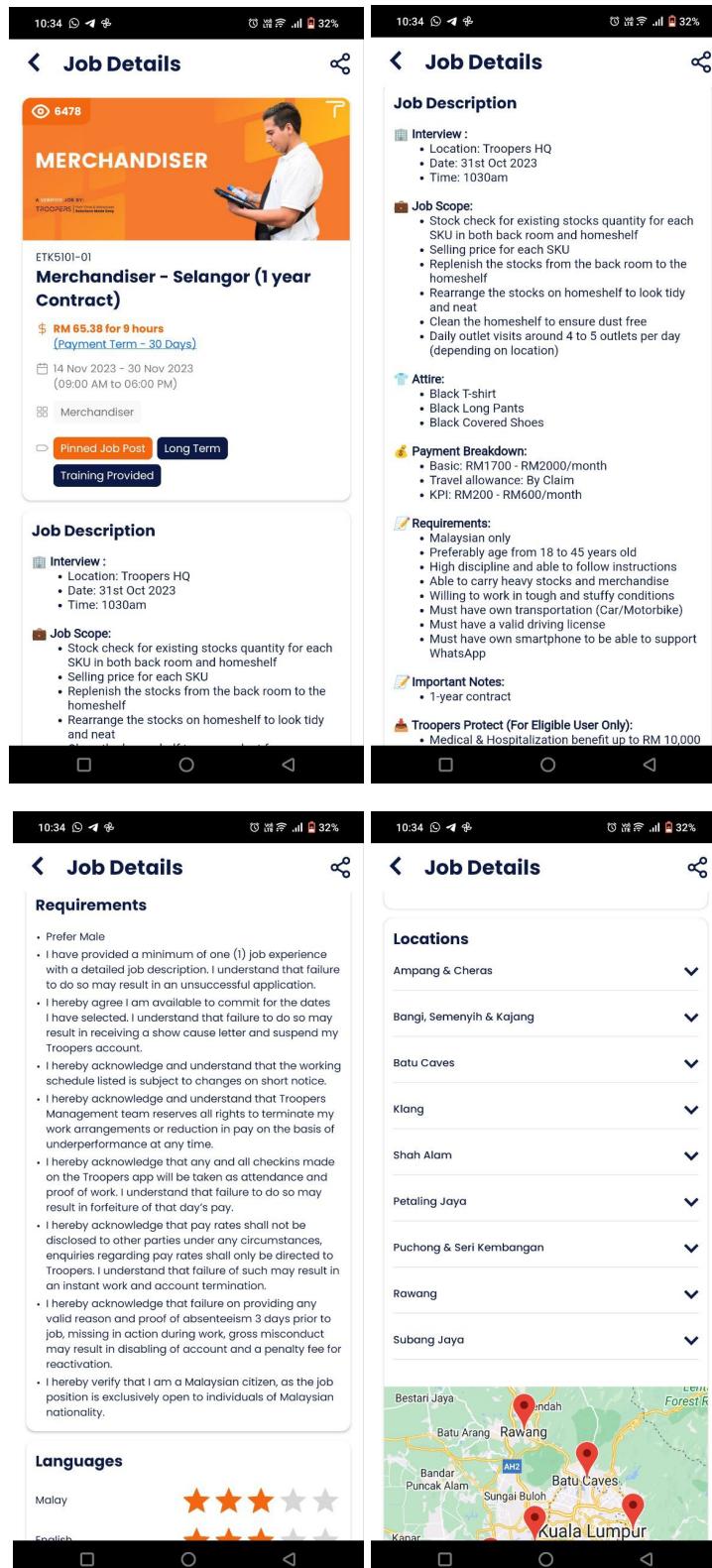


Figure 2.9: Jobs details in Troopers app

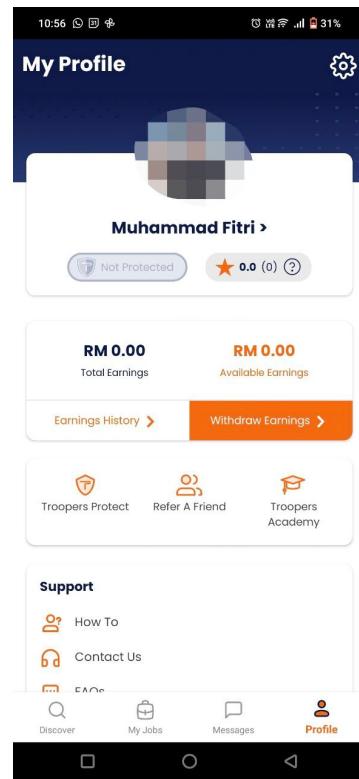


Figure 2.10: Troopers User profile

Troopers also provide a wide range of features that allow businesses and freelancers to connect and collaborate, including

- Chat: The messaging platform provided by Troopers allows communication between businesses and freelancers.

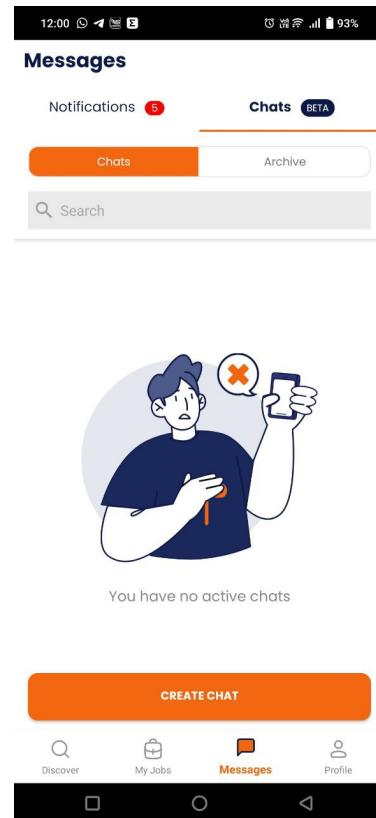


Figure 2.11: Troopers chat page

- Insurance: Troopers offer insurance coverage to freelance workers, ensuring their protection from accidents and injuries throughout their work.



Figure 2.12: Troopers insurance protection

- Troopers Academy: Troopers provide an academy for job seekers to upskill for better job opportunities.



Figure 2.13: Troopers Academy

Advantages	Disadvantages
Job alerts notification system	No review and rating
Chats or messages	No resume posting
Tracking system	Limited verification of job listing

Table 2.2: Advantages and disadvantages of Troopers

CareerBuilder.com

CareerBuilder is a job search and employment website that connects job seekers with potential employers and provides various career-related resources. The website is a highlight for resume building and helping people narrow their job search. Users can expect an overload of emails and scams from the site's excessive job recommendations, where the majority typically would not coincide with their background, experience, or qualifications. Founded in 1995 and based in the United States of America.

Features include:

- **Resume building:** The website provides tools and templates for job seekers to create or upload their resumes, making applying for jobs on the platform more accessible.
- **Career Resource:** The website offers articles, advice, and resources on various aspects of job searching, career development, and workplace issues.
- **Application Tracking:** Registered users can track their job applications and save their favourite job listings for future reference.

Advantages	Disadvantages
Resume upload	No rating and review
Tracking progress	No new jobs alert system
Career resources	Limited verification of job listing

Table 2.3: Advantages and disadvantages of CarrerBuilder.com

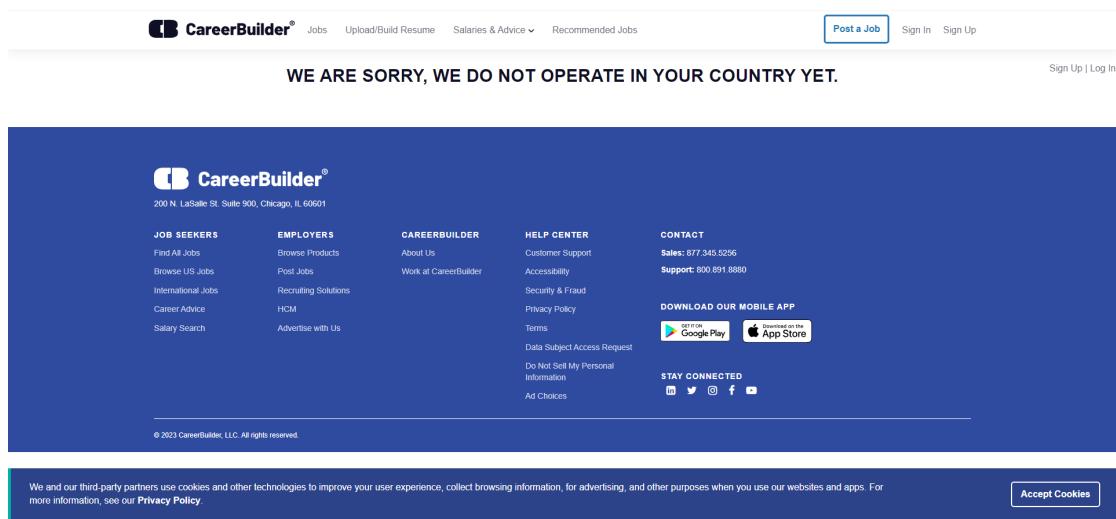


Figure 2.14: CareerBuilder home page viewed from Malaysia

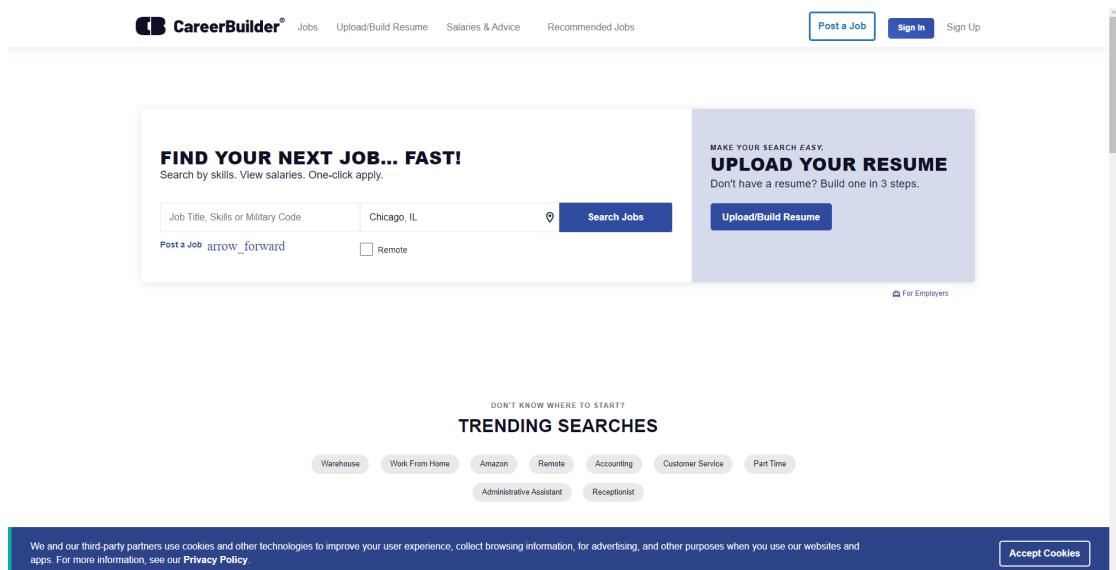


Figure 2.15: CareerBuilder home page viewed from America and other supported regions

The screenshot shows the CareerBuilder Talent Discovery interface. At the top, there are navigation links: Feed, Insights, Intellic, Search, Jobs, Lists, Campaigns, and Talent Network. A search bar contains the query "benefits administrator" and a location filter set to "Pleasanton, CA". Below the search bar, a checkbox "Include related keywords" is checked. The search results are titled "Candidate Results (19,781 Total Search Results)". On the left, there are two tabs: "My Candidates (892)" and "CareerBuilder Candidates (18,889)", with the latter being active. The main results area displays a single candidate profile for Zachery Bissonnette, a Benefits Administrator at TemiWork. The profile includes a photo, basic information like last active date (07/11/2016), and a list of skills: administration, healthcare, leadership, employee benefits, and benefits administration. There are also buttons for "Favorite", "Forward", and "Add to List". On the right side of the results, there are "Save Search" and "Manage Saved Search" options.

Figure 2.16: Employers page

The screenshot shows the "BUILD A RESUME" form on the CareerBuilder website. The title "BUILD A RESUME" is at the top, followed by a sub-instruction "Complete 3 simple steps to have a resume to apply to jobs!". The first step, "1. Personal Information", is active. It contains fields for First Name ("Payan Lazeri"), Last Name ("Razani"), Country ("United States"), ZIP code, City ("Chicago"), State, Email Address ("zayanlabzerr@gmail.com"), and Phone number. A "Next" button is located at the bottom right of this section. Below it, sections for "2. Work History" and "3. Education" are partially visible. At the very bottom, a cookie consent message reads: "We and our third-party partners use cookies and other technologies to improve your user experience, collect browsing information, for advertising, and other purposes when you use our websites and apps. For more information, see our [Privacy Policy](#)." An "Accept Cookies" button is on the right.

Figure 2.17: Resume building page

The screenshot shows the CareerBuilder website interface. At the top, there's a navigation bar with links for 'Jobs', 'Salaries & Advice', 'Recommended Jobs', 'My Messages', and a user profile for 'Zayan Lazerr'. Below the navigation is a search bar with filters: '30+ days', '30 miles', 'Onsite/Remote', 'Job Type', 'Pay', 'Quick Apply', 'Supports Veterans', and 'Reset filters'. A message encourages users to upload a resume to unlock features, with a link to 'Complete my registration'.

The main content area displays '150,893 Jobs in Chicago, IL'. On the left, there's a sidebar with a 'Remote' filter option. Below it are five job listing cards:

- SAP-SuccessFactors-Manager-Consulting-Location OPEN** (EY) - Published today, full-time, \$52k-\$60k/year.
- Tax Accounting Risk Advisory Manager** (EY) - Published 1 day ago, full-time, \$110k/year.
- SAP-TM-Manager-Consulting Location** (EY) - Published 1 day ago, full-time, \$110k/year.
- Front Desk Coordinator** (Job Snob) - Published 1 day ago, part-time, \$11k/year.
- Aesthetic Injector RN/NP/PA** (Job Snob) - Published 1 day ago, part-time, \$11k/year.

On the right, a detailed view of the first job listing is shown. It features the EY logo and tagline 'Building a better working world'. The job title is 'SAP-SUCCESSFACTORS-MANAGER-CONSULTING-LOCATION OPEN'. The company information shows 'EY | Chicago, IL (Onsite) | Full-Time CB Est Salary: \$52k-\$60k - \$238k/year'. A blue button says 'Apply on company site'. Below this, tabs for 'Job Details' and 'Company Overview' are visible. The 'Job Details' section contains a paragraph about EY's focus on ethical standards and its unique business perspective on SAP technology. The 'Company Overview' section discusses EY's Agile Business Transformation and collaborative approach across various service lines like Supply Chain, FICO, BPC, Data & Analytics, Customer, Tech/Arch and SuccessFactors.

At the bottom of the page, a cookie consent banner states: 'We and our third-party partners use cookies and other technologies to improve your user experience, collect browsing information, for advertising, and other purposes when you use our websites and apps. For more information, see our Privacy Policy.' It includes 'Accept Cookies' and 'Your cookie preferences' buttons.

Figure 2.18: Job listings page availability in a selected region/state

Primary Study Summary

	SimplyHired	Troopers	CareerBuilder	Flexwaves
Chat		✓	✓	✓
Job Alerts	✓	✓		✓
Rating and reviews	✓			✓
Tracking progress		✓	✓	✓
Academy		✓		✓

Table 2.4: Primary study summary

2.2 Problem Statement

Objective:

To notify job seekers about available jobs.

Problem Statement:

The job alert feature is not included in one of the competitor companies. This feature allows job seekers to get notifications based on their preferences. It allows job seekers to stay alert about the job opportunities.

Objective:

To allows user to manage their job and application efficiently.

Problem Statement:

Tracking progress system provided by two out of three competitors. The two companies have different tracking progress; the first has a tracking system for the job progress, and the other is tracking the job application. Both serve a similar purpose: to allow users to stay organised with their jobs or the application.

Objective:

To provide educational and skill-building resources to the job seekers.

Problem Statement:

The academy system is only provided by one of the competitors. A dedicated learning or academy section benefits job-seekers seeking additional skills or credentials. It can include online courses, articles, and webinars. It is a valuable resource for continuing education and career advancement.

3.1 System Features

- Admin
 - Approved/disapproved company.
 - Can view, search and delete jobs.
 - Can add, search, view, edit and delete the academy.
 - Can view, delete, and search Company.
 - Can add, view, delete, edit, and search notifications.
 - Can add, view, delete, edit, and search messages.
- Jobseekers
 - Can register and log into the system.
 - Can view and edit profiles.
 - Can add, edit, and delete resumes.
 - Can view and search for jobs.
 - Can apply for jobs.
 - Can view job status.
 - View, search and apply academy.
 - Can view notifications.
 - Can add, view, delete, edit and search messages.
- Company
 - Companies can register and login to the system.
 - Can view and edit company profile
 - Can add, view, edit, search, and delete jobs.
 - Can view the jobseeker's profile.
 - Can view jobseeker's resume.
 - Update status of jobseekers.
 - Can add, view, delete, edit, and search messages.

3.2 Hardware/Software Requirements

3.2.1 For Developer

HARDWARE	COMPONENTS	PRICE (RM)
Central Processing Unit (CPU)	Ryzen 3 3200G	390
RAM	8GB 3000MHz	100
STORAGE	KINGSTON A400 128GB	80
MOTHERBOARD	MSI A320M-A	260
PC CASE	MATX Case	50
KEYBOARD AND MOUSE	Office keyboard and mouse	30
MONITOR	Office Standard (16:9)	100

Table 3.1: Hardware requirements

SOFTWARE	TYPE	PRICE
Windows	Operating System	
Visual Studio Code	Code Editor	FREE

Table 3.2: Software requirements

3.2.2 For User

HARDWARE / SOFTWARE
Any devices
Access to internet

Table 3.3: User requirements

3.3 Technical Diagram

3.3.1 Context Diagram & Data Flow Diagram

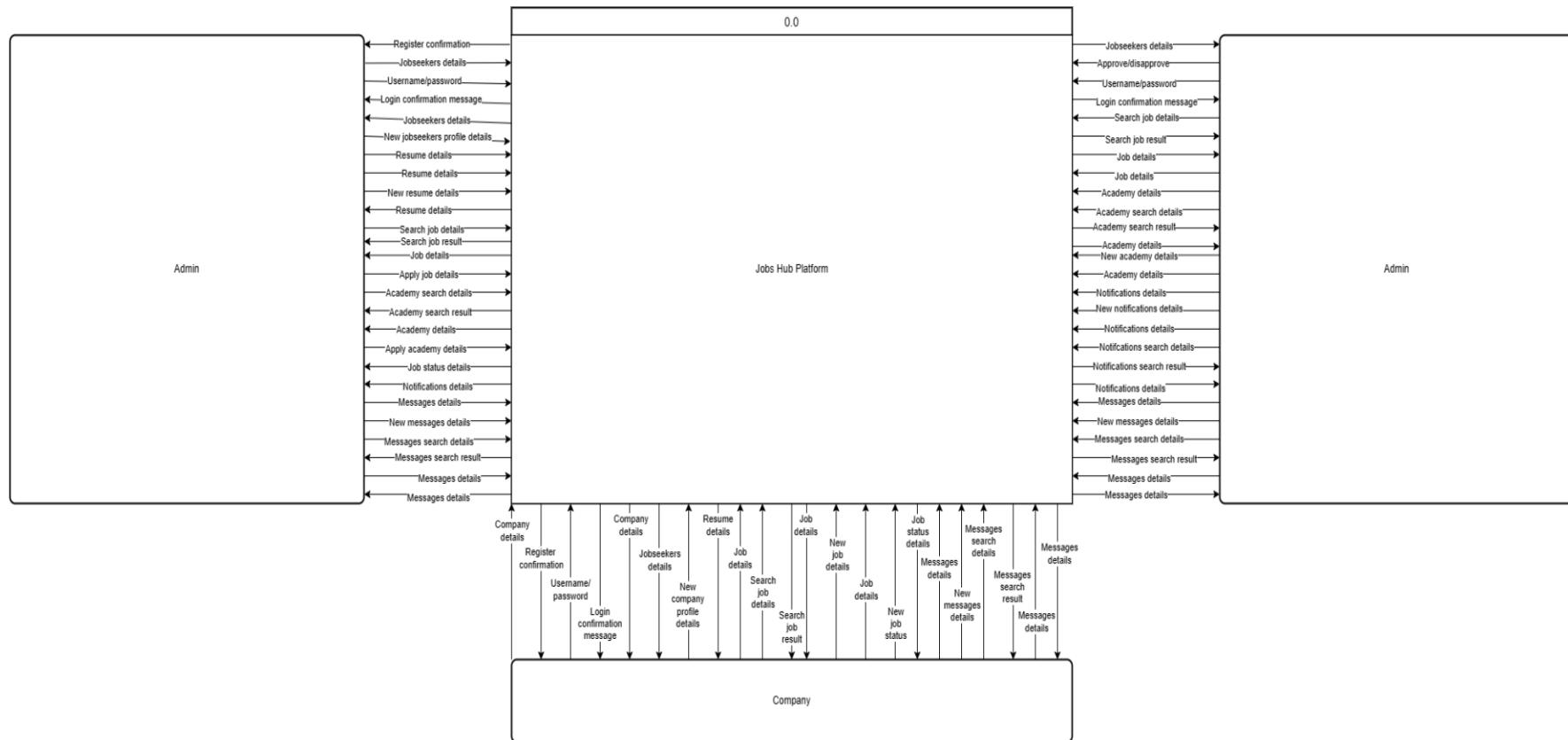
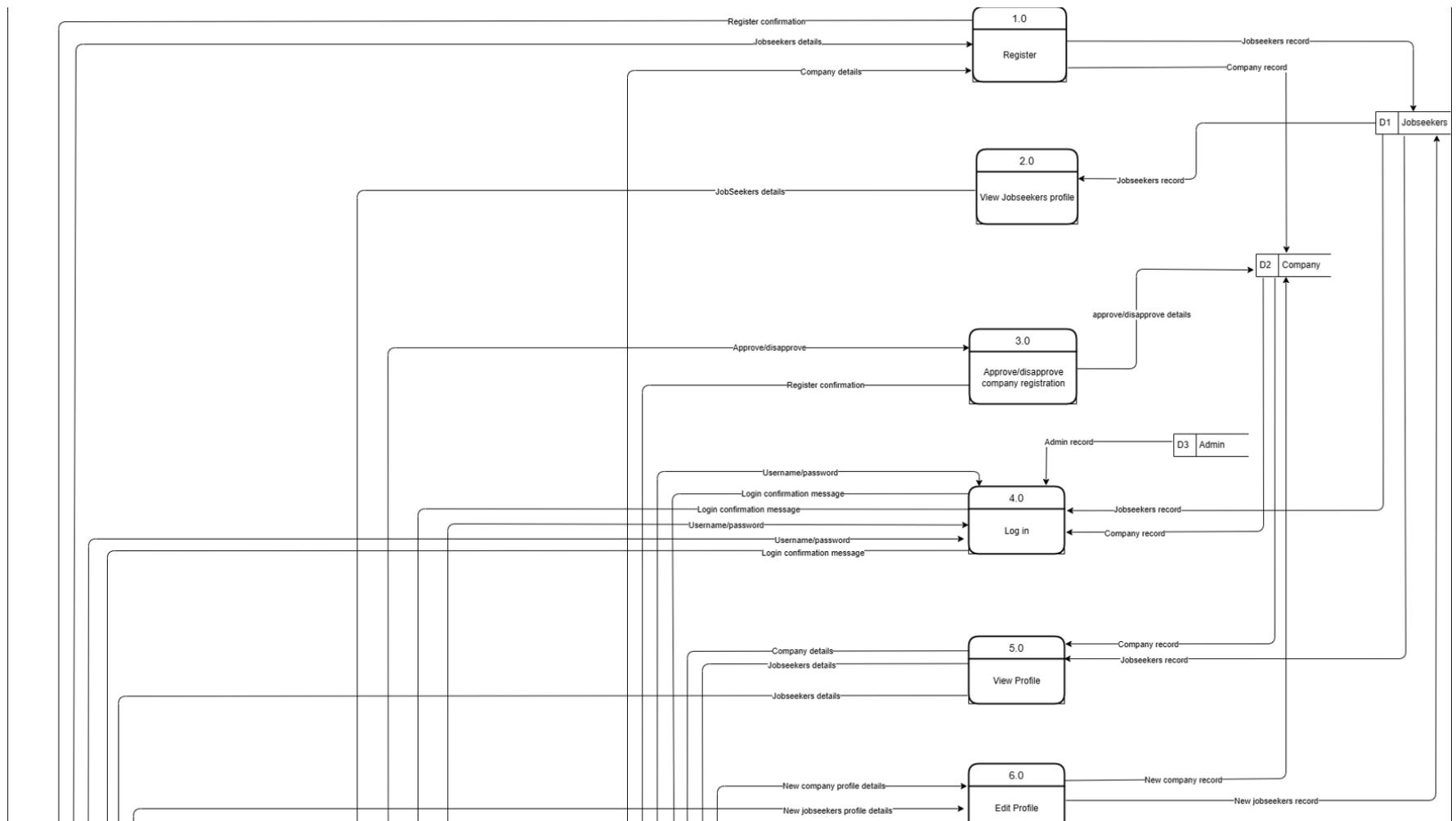
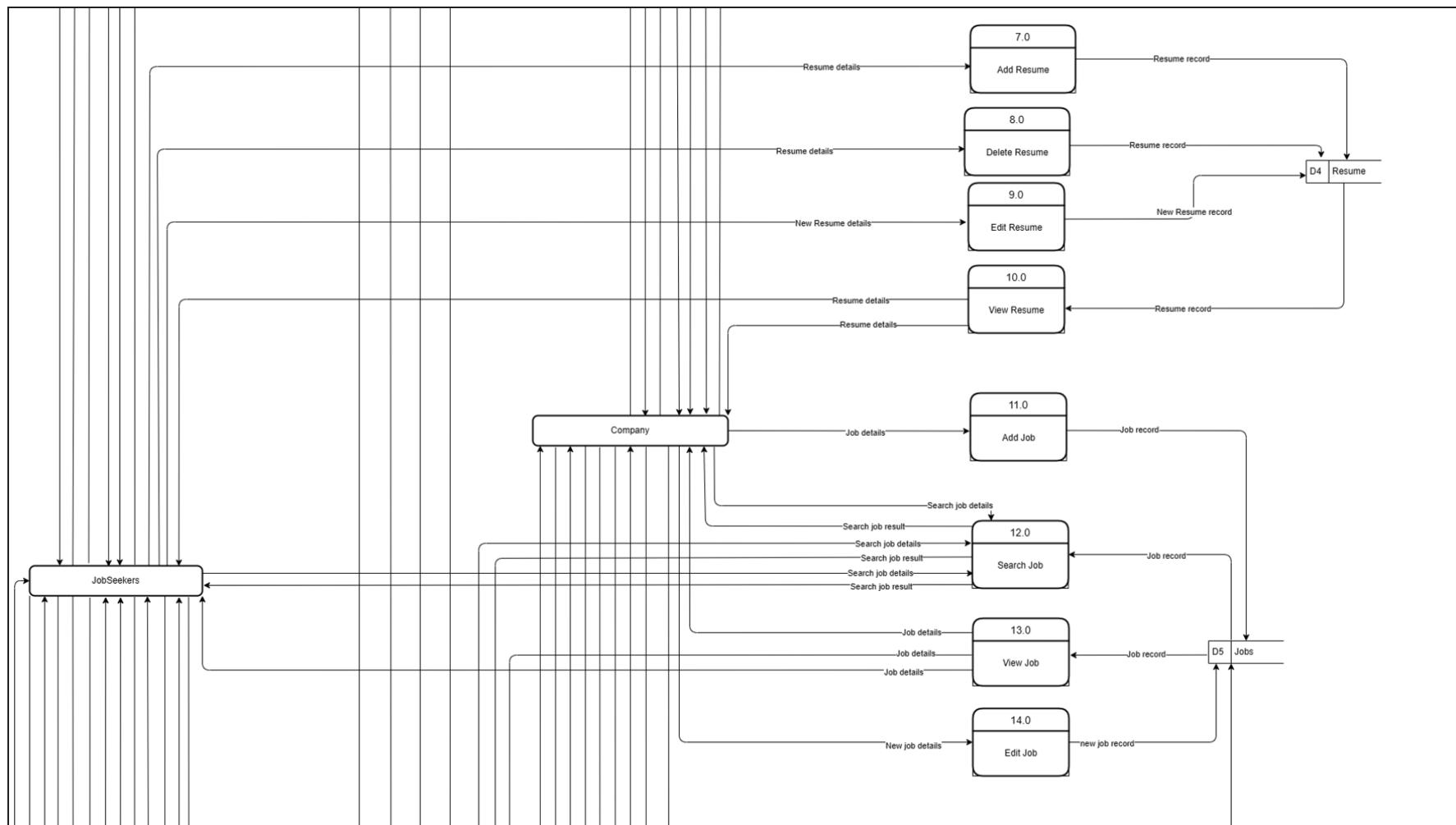
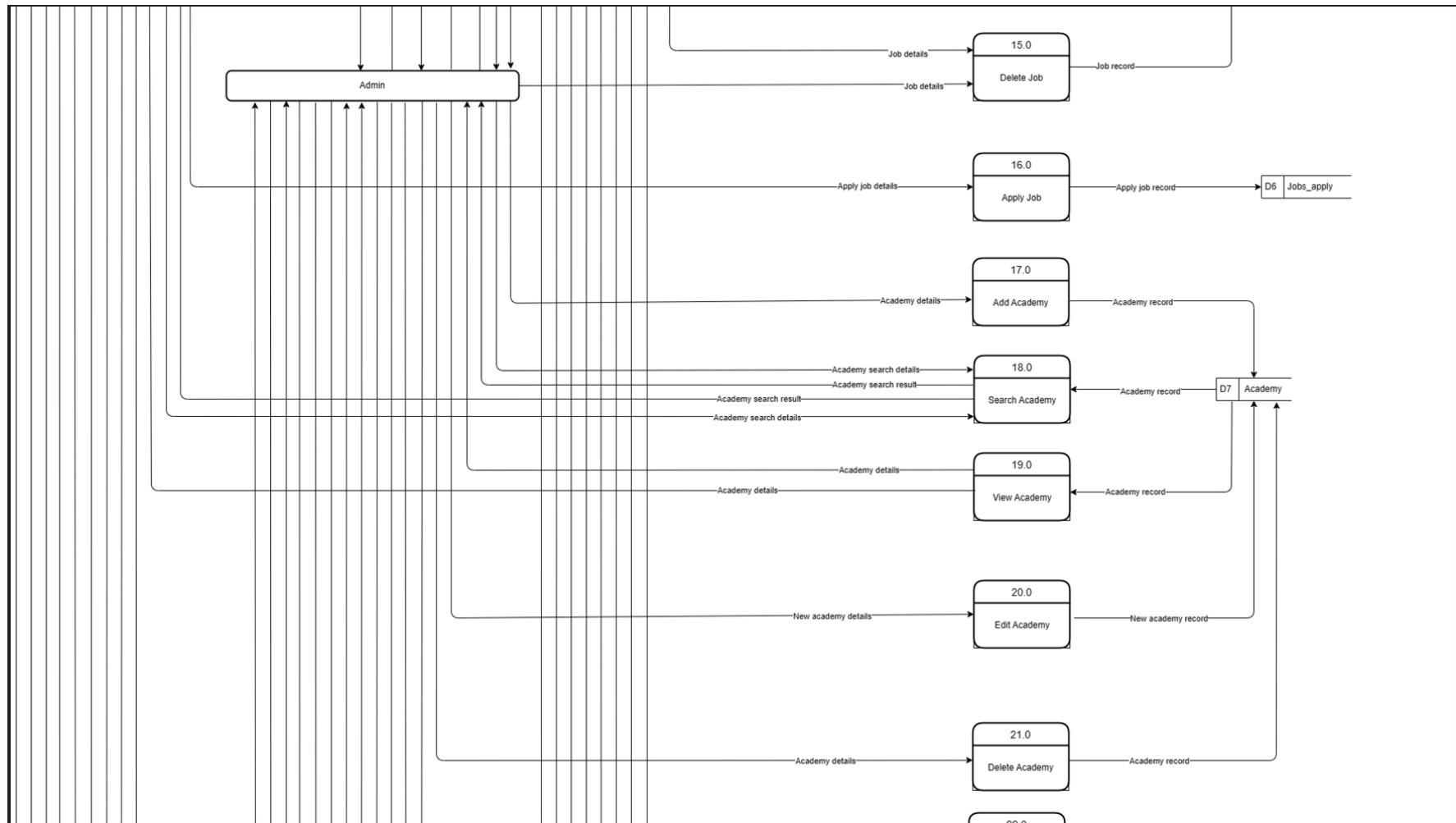
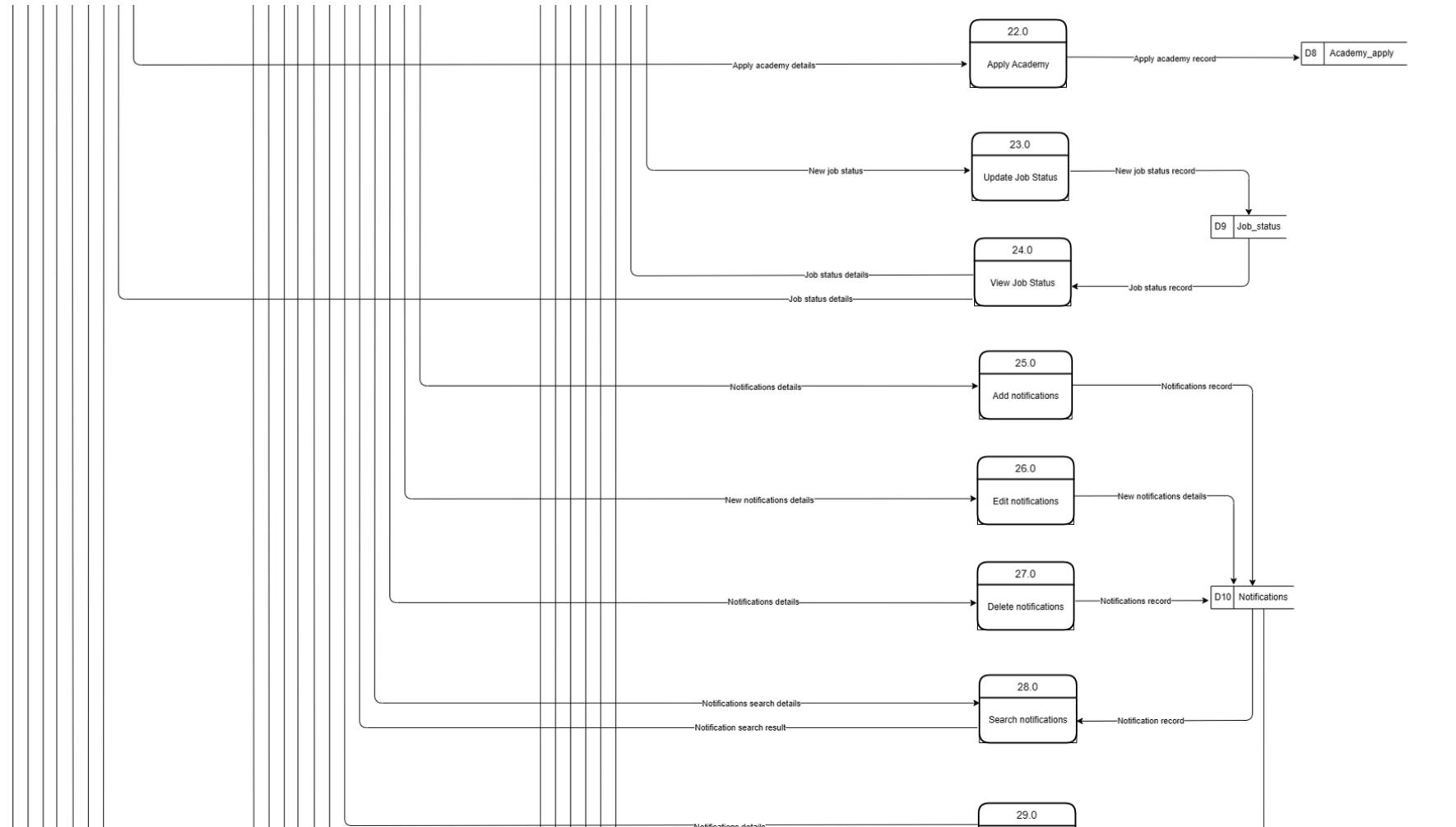


Figure 3.1: Context Diagram









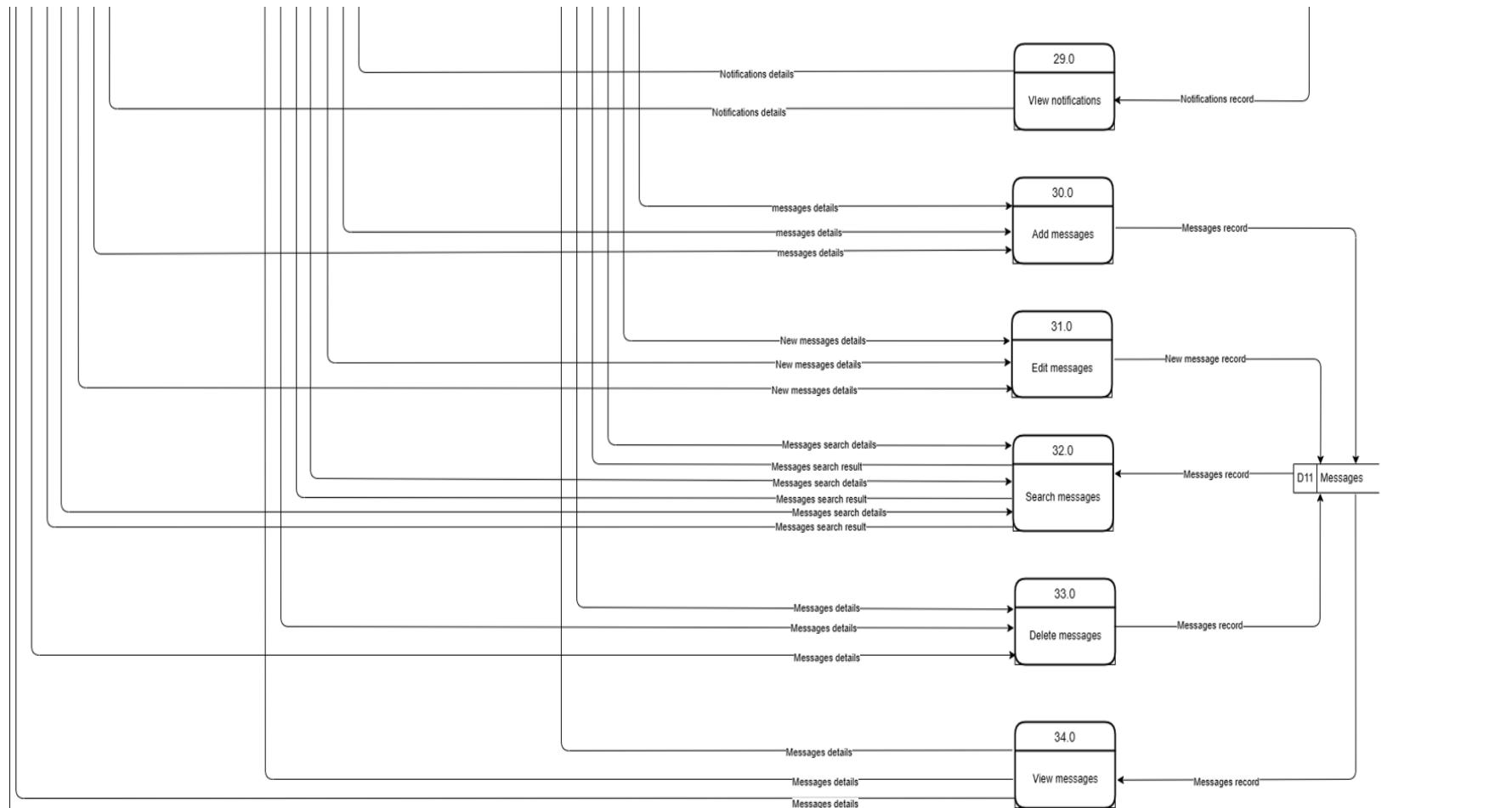


Figure 3.2: Data Flow Diagram(DFD)

3.3.2 Entity Relationship Diagram

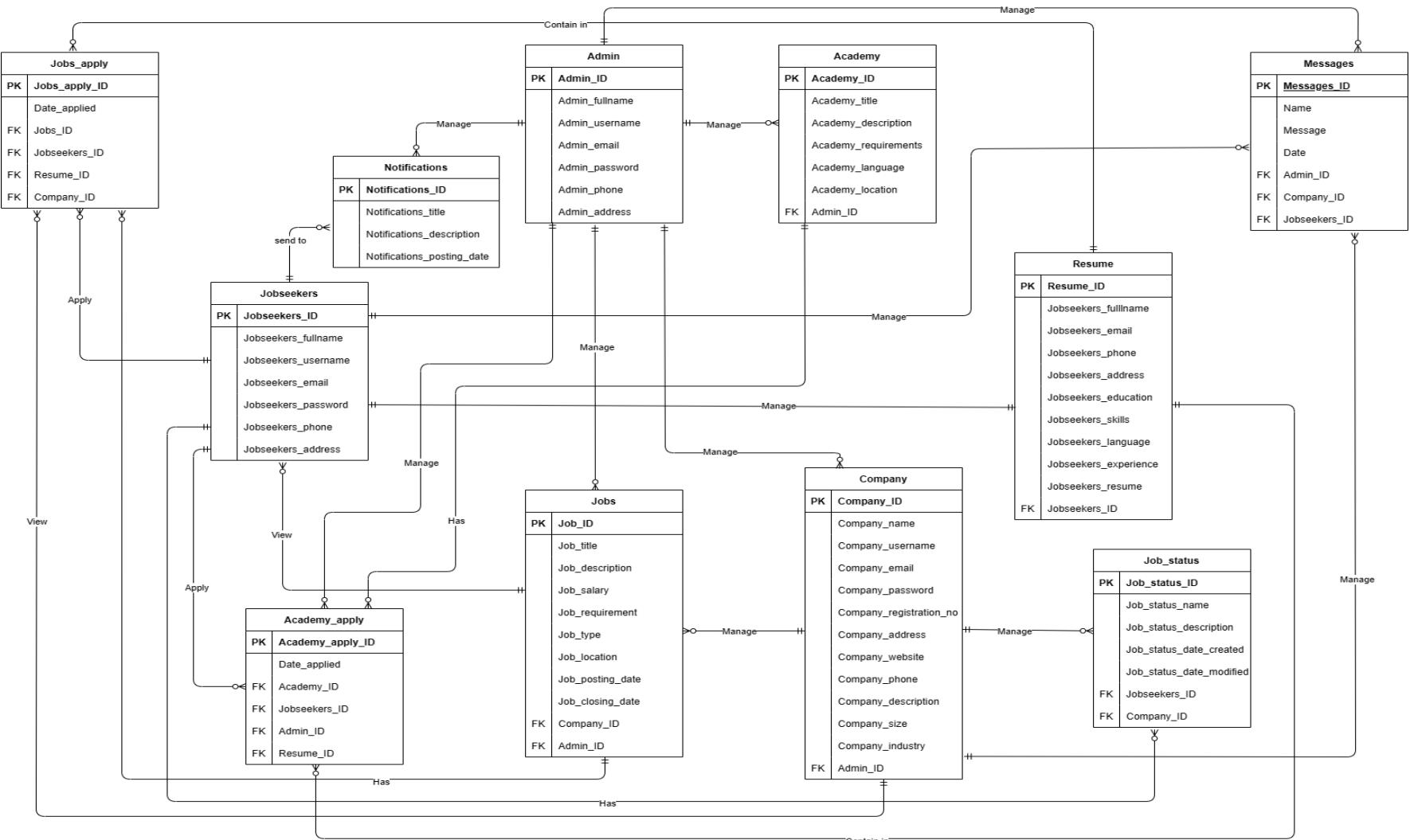


Figure 3.3: Entity Relationship Diagram (ERD)

3.3.3 Data Dictionary

Table Name	Attribute Name	Contents	Type	For mat	Req uire d	PK or FK	FK reference table	Auto Incr ement
Jobseekers	Jobseekers_ID	Jobseekers Identifications	Int()	999 999	Y	PK		Y
	Jobseekers_fullname	Jobseekers full name	V Char (0)	Xx xxx xxx	Y			
	Jobseekers_email	Jobseekers email	V Char (0)	Xx xxx xxx	Y			
	Jobseekers_password	Jobseekers password	V Char (0)	Xx xxx xxx	Y			
	Jobseekers_phone	Jobseekers phone	Int()	999 999	Y			
	Jobseekers_address	Jobseekers address	V Char (0)	Xx xxx xxx	Y			
Company	Company_ID	Company Identifications	Int()	999 999	Y	PK		Y
	Company_name	Company name	V Char (0)	Xx xxx xxx	Y			
	Company_username	Company username	V Char (0)	Xx xxx xxx	Y			
	Company_email	Company email	V Char (0)	Xx xxx xxx	Y			

	Company_password	Company password	V Char ()	Xx xxx xxx	Y			
	Company_registration_no	Company registration number	V Char ()	999 999 999 999	Y			
	Company_address	Company address	V Char ()	Xx xxx xxx	Y			
	Company_websites	Company websites	V Char ()	Xx xxx xxx	N			
	Company_phone	Company phone	Int()	999 999 999 99	Y			
	Company_description	Company description	V Char ()	Xx xxx xxx	Y			
	Company_size	Company Size	Int()	999 999 999	Y			
	Company_industry	Company industry	V Char ()	Xx xxx xxx	Y			
	Admin_ID	Admin Identifications	Int()	999 999 999	Y	FK	Admin	
Admin	Admin_ID	Admin Identifications	Int()	999 999 999	Y	PK		Y
	Admin_fullname	Admin full name	V Char ()	Xx xxx xxx	Y			

	Admin_username	Admin username	V Char ()	Xx xxx xxx	Y			
	Admin_email	Admin email	V Char ()	Xx xxx xxx	Y			
	Admin_password	Admin password	V Char ()	Xx xxx xxx	Y			
	Admin_phone	Admin phone	Int()	999 999 999 99	Y			
	Admin_address	Admin address	V Char ()	Xx xxx xxx	Y			
Resume	Resume_ID	Resume Identifications	Int()	999 999 999	Y	PK		Y
	Jobseekers_fullname	Jobseekers full name	V Char ()	Xx xxx xxx	Y			
	Jobseekers_email	Jobseekers email	V Char ()	Xx xxx xxx	Y			
	Jobseekers_phone	Jobsekers phone	Int()	999 999 999 99	Y			
	Jobseekers_address	Jobseekers address	V Char ()	Xx xxx xxx	Y			
	Jobseekers_education	Jobseekers educations	V Char ()	Xx xxx xxx	Y			

	Jobseekers_skills	Jobseekers skills	V Char ()	Xx xxx xxx	Y			
	Jobseekers_language	Jobseekers language	V Char ()	Xx xxx xxx	Y			
	Jobseekers_experience	Jobseekers experience	V Char ()	Xx xxx xxx	Y			
	Jobseekers_resume	Jobseekers resume			N			
	Jobseekers_ID	Jobseekers Identifications	Int()	999 999 999	Y	FK	Jobseekers	
Jobs	Jobs_ID	Jobs Identifications	Int()	999 999 999	Y	PK		Y
	Jobs_title	Jobs title	V Char ()	Xx xxx xxx	Y			
	Jobs_description	Jobs description	V Char ()	Xx xxx xxx	Y			
	Jobs_salary	Jobs salary	Int()	999 999 999	Y			
	Jobs_requirement	Jobs requirement	V Char ()	Xx xxx xxx	Y			
	Jobs_type	Jobs type	V Char ()	Xx xxx xxx	Y			
	Jobs_location	Jobs location	V Char ()	Xx xxx xxx	Y			

	Jobs_posting_date	Job posting date	Date()	dd/mm/yy yy	Y			
	Jobs_closing_date	Jobs closing date	Date()	dd/mm/yy yy	Y			
	Company_ID	Company Identification	Int()	999 999 999	Y	FK	Company	
	Admin_ID	Admin Identification	Int()	999 999 999	Y	FK	Admin	
Jobs_apply	Jobs_apply_ID	Jobs apply Identifications	Int()	999 999 999	Y			Y
	Date_applied	Date applied	V Char() ()	dd/mm/yy yy	Y			
	Jobs_ID	Jobs Identifications	Int()	999 999 999	Y	FK	Jobs	
	Jobseekers_ID	Jobseekers Identifications	Int()	999 999 999	Y	FK	Jobseekers	
	Resume_ID	Resume Identifications	Int()	999 999 999	Y	FK	Resume	
	Company_ID	Company Identifications	Int()	999 999 999	Y	FK	Company	
Academy	Academy_ID	Academy Identifications	Int()	999 999 999	Y	PK		Y

	Academy_title	Academy title	V Char ()	Xx xxx xxx	Y			
	Academy_description	Acdeemy description	V Char ()	Xx xxx xxx	Y			
	Academy_requirements	Academy requirements	V Char ()	Xx xxx xxx	Y			
	Academy_language	Academy language	V Char ()	Xx xxx xxx	Y			
	Academy_location	Academy location	V Char ()	Xx xxx xxx	Y			
	Admin_ID	Admin Identifications	Int()	999 999 999	Y	FK	Admin	
Academy_ap ply	Academy_apply_ID	Academy apply Identifications	Int()	999 999 999	Y	PK		Y
	Date_applied	Date applied	Date ()	dd/ mm /yy yy	Y			
	Academy_ID	Academy Identifications	Int()	999 999 999	Y	FK	Academy	
	Jobseekers_ID	Jobseekers Identifications	Int()	999 999 999	Y	FK	Jobseekers	
	Admin_ID	Admin Identifications	Int()	999 999 999	Y	FK	Admin	

	Resume_ID	Resume Identifications	Int()	999 999 999	Y	FK	Resume	
Job_status	Job_status_ID	Job status Identifications	Int()	999 999 999	Y	PK		Y
	Job_status_name	Job status name	V Char (0)	Xx xxx xxx	Y			
	Job_status_description	Job status description	V Char (0)	Xx xxx xxx	Y			
	Job_status_date_created	Job status date created	Date (0)	dd/ mm /yy yy	Y			
	Job_status_date_modified	Job status date modified	Date (0)	dd/ mm /yy yy	Y			
	Jobseekers_ID	Jobseekers Identifications	Int()	999 999 999	Y	FK	Jobseekers	
	Company_ID	Company Identifications	Int()	999 999 999	Y	FK	Company	
Notifications	Notifications_ID	Notifications Identifications	Int()	999 999 999	Y			Y
	Notifications_title	Notifications title	V Char (0)	Xx xxx xxx	Y			
	Notifications_description	Notifications description	V Char (0)	Xx xxx xxx	Y			

	Notifications_posting_date	Notifications posting date	Date()	dd/mm/yy yy	Y			
Messages	Messages_ID	Messages Identifications	Int()	999 999 999	Y	PK		Y
	Name	Name	V Char() ()	Xx xxx xxx	Y			
	Message	Message	V Char() ()	Xx xxx xxx	Y			
	Date	Date	Date()	dd/mm/yy yy	Y			
	Admin_ID	Admin Identifications	Int()	999 999 999	Y	FK	Admin	
	Company_ID	Admin Identifications	Int()	999 999 999	Y	FK	Company	
	Jobseekers_ID	Jobseekers Identifications	Int()	999 999 999	Y	FK	Jobseekers	

Table 3.4: Data Dictionary

3.1.1 System Prototype

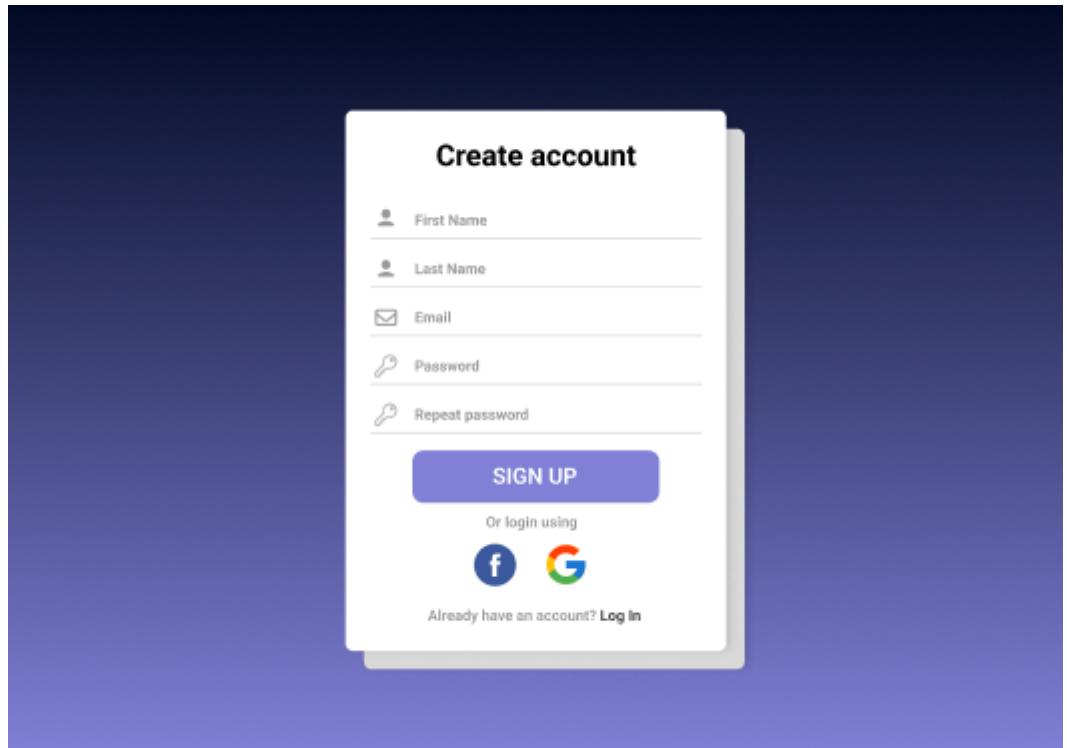


Figure 3.4 Jobseekers Sign Up Page

In figure 3.4, it shows the page where the jobseekers can create or register an account.

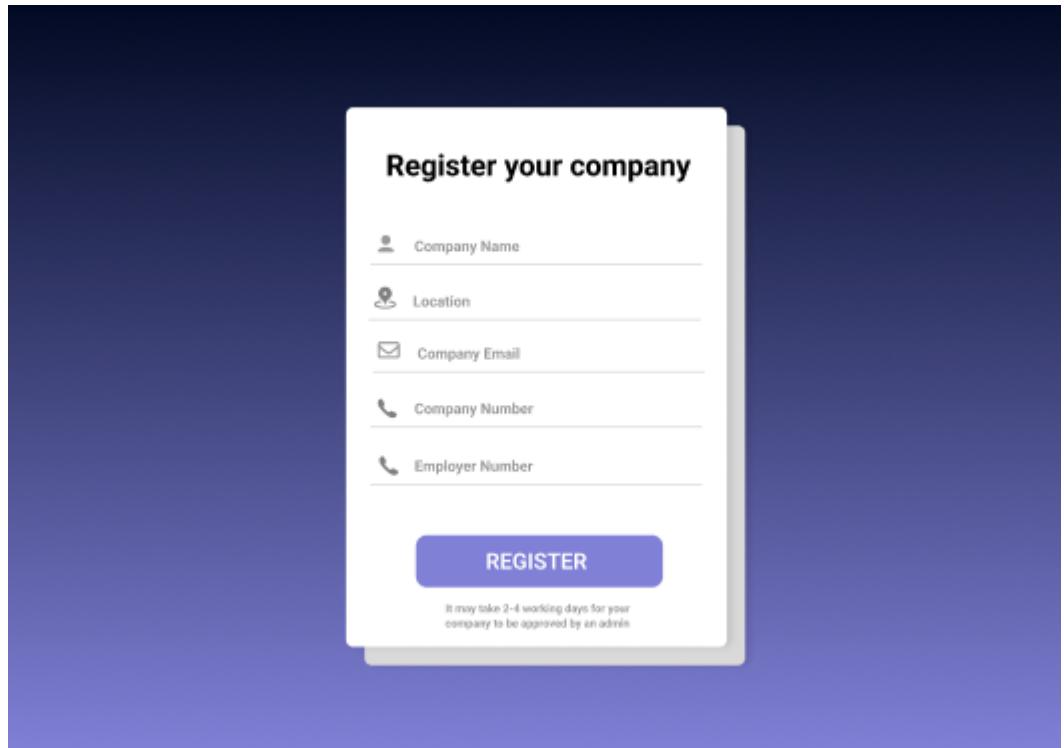


Figure 3.5 Company Register Page

Figure 3.5 shows the page where the company can create or register its account.

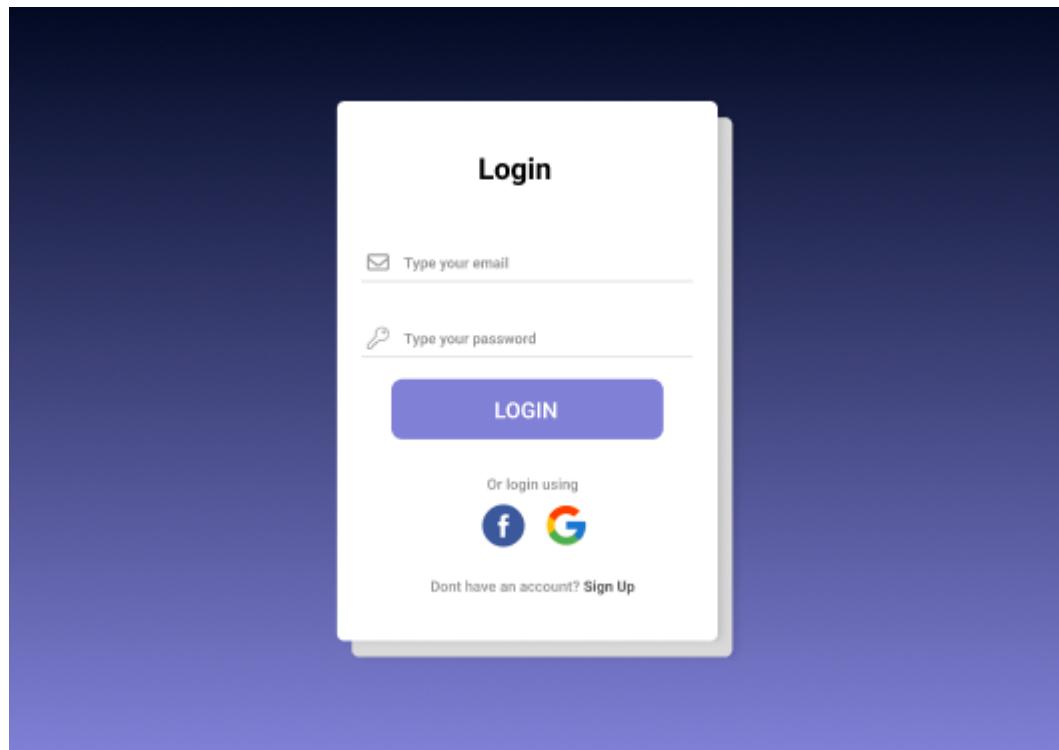


Figure 3.6 Login Page

Figure 3.6 shows the login page where jobseekers or companies can log into the system.

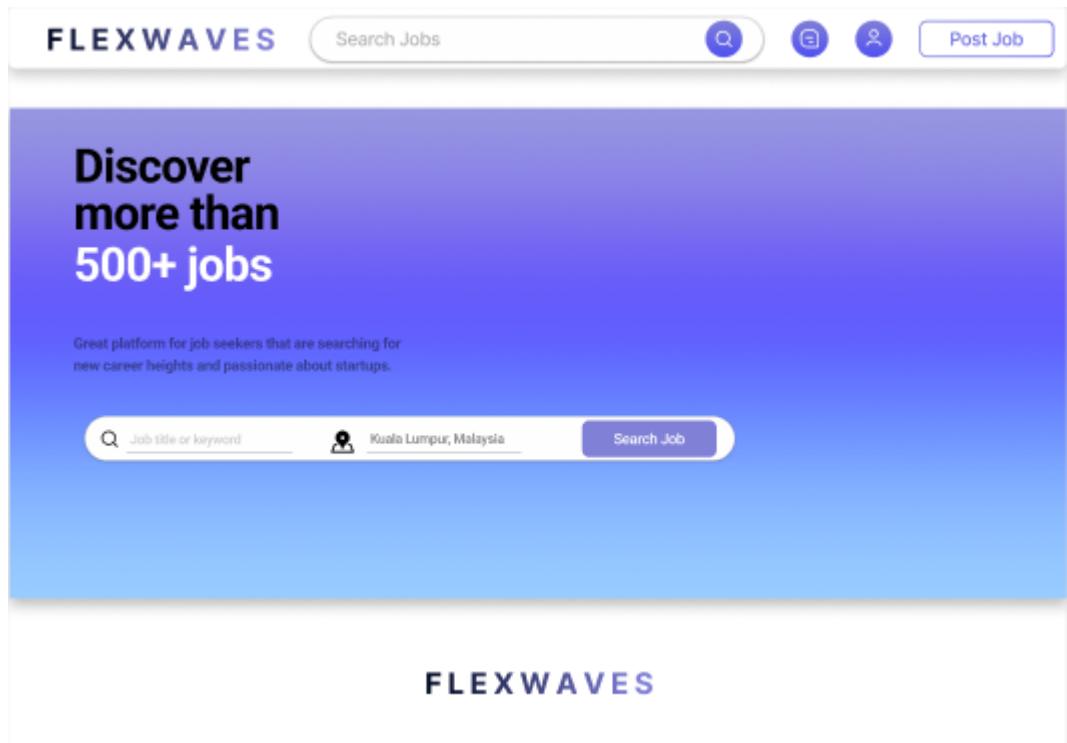


Figure 3.7 Landing Page

Figure 3.7 shows the front or landing page of the system.

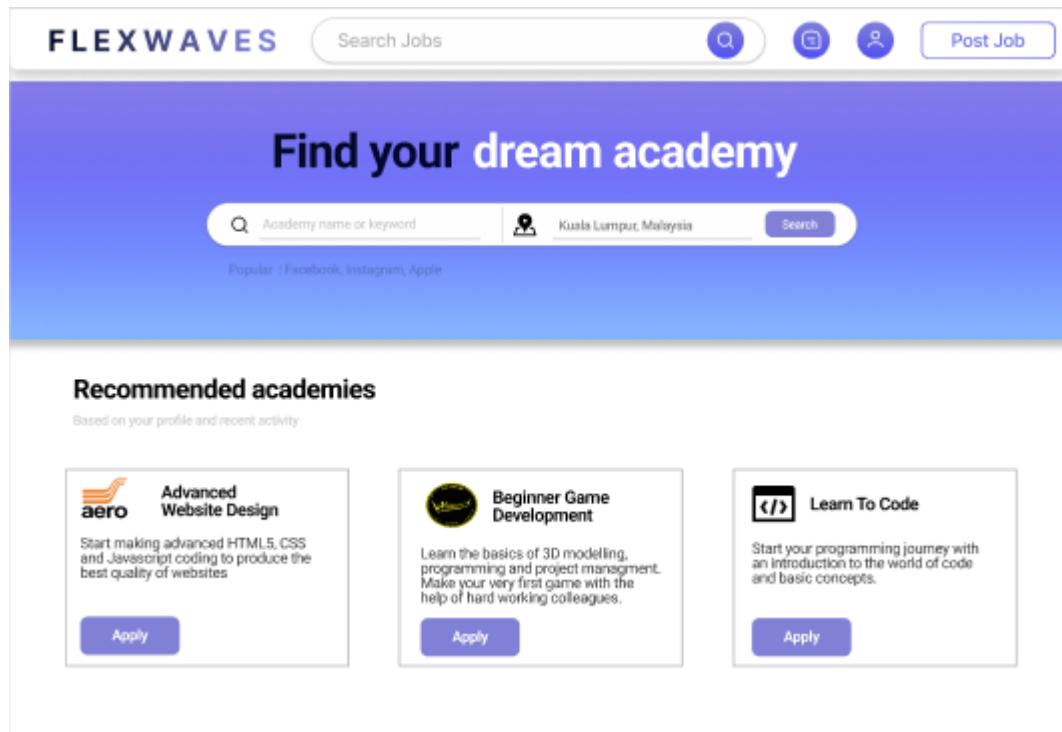


Figure 3.8 Academy Page

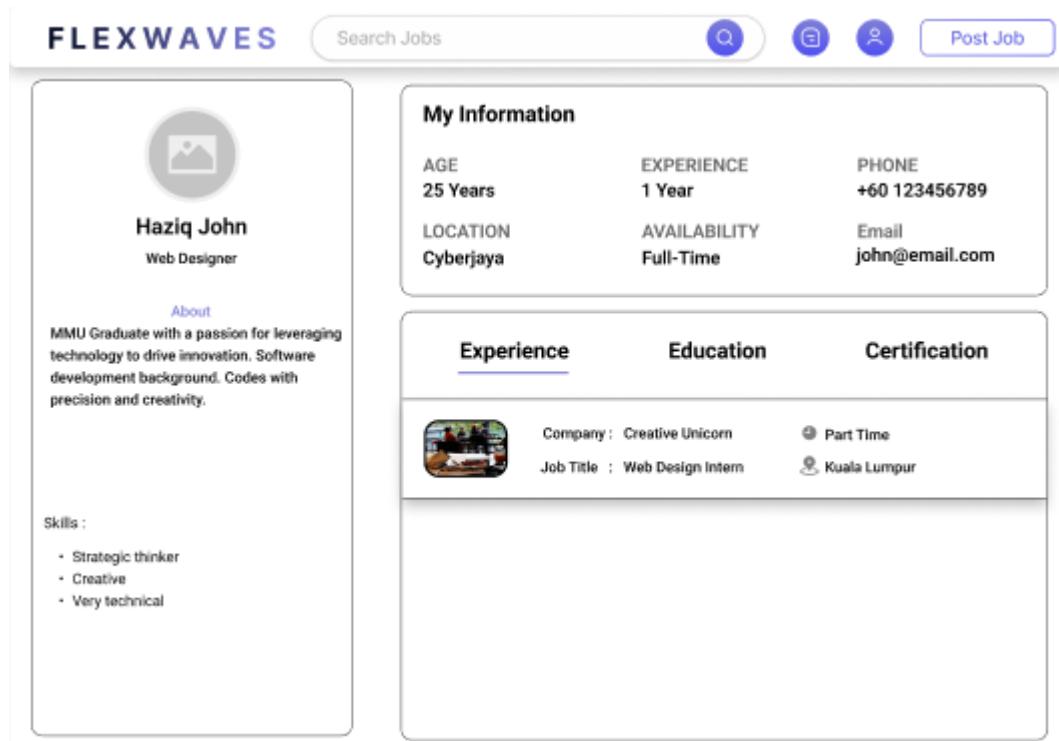
Figure 3.8 shows the page of the academy program for jobseekers.

The screenshot shows the Flexwaves job search interface. At the top, there's a navigation bar with the Flexwaves logo, a search bar labeled 'Search Jobs', and icons for user profile, login, and posting a job. Below the navigation is a main heading 'Finding JOBS made easier.' followed by a search bar with placeholder text 'Job title or keyword' and a location dropdown set to 'Kuala Lumpur, Malaysia'. A 'Search' button is also present. Underneath, a popular search term 'UI Designer, Android, Admin' is listed. On the left, there are three filter sections: 'Job type' (checkboxes for Full-time, Part-time, Internship, Freelance), 'Salary Range' (checkboxes for RM 1 - 50,000 and RM 1 - 50,000), and 'Experience Range' (checkboxes for Fresh Graduate, 1-2 years, 3-5 years, 6-10 years). To the right, under the heading 'All Jobs', two job listings are shown in cards:

- Web Design Intern** at Creative Unicorn (Selangor, RM500 - RM 2000, Full-Time). An 'Apply' button is available.
- Web Design Intern** at Now Comms Asia (Selangor, Undisclosed, Internship). An 'Apply' button is available.

Figure 3.9 Find Job Page

Figure 3.9 shows the Find Job page where jobseekers can search for their desired job.



The screenshot shows a jobseeker's profile page on a website called FLEXWAVES. At the top, there is a search bar labeled "Search Jobs" and several icons for search, refresh, user profile, and "Post Job". The main profile area features a placeholder image, the name "Haziq John", and the title "Web Designer". Below this is a section titled "About" containing a brief description: "MMU Graduate with a passion for leveraging technology to drive innovation. Software development background. Codes with precision and creativity." A "Skills" section lists: "Strategic thinker", "Creative", and "Very technical". To the right, there are three tabs: "My Information", "Experience", "Education", and "Certification". Under "My Information", details are provided: AGE (25 Years), EXPERIENCE (1 Year), PHONE (+60 123456789), LOCATION (Cyberjaya), AVAILABILITY (Full-Time), and EMAIL (john@email.com). Under "Experience", a card shows: Company (Creative Unicorn), Job Title (Web Design Intern), Location (Kuala Lumpur), and a status indicator (Part Time).

Figure 3.10 Jobseekers Profile Page

Figure 3.10 shows the Jobseekers Profile page. It contains the information regarding the jobseekers such as name, about, and experience.

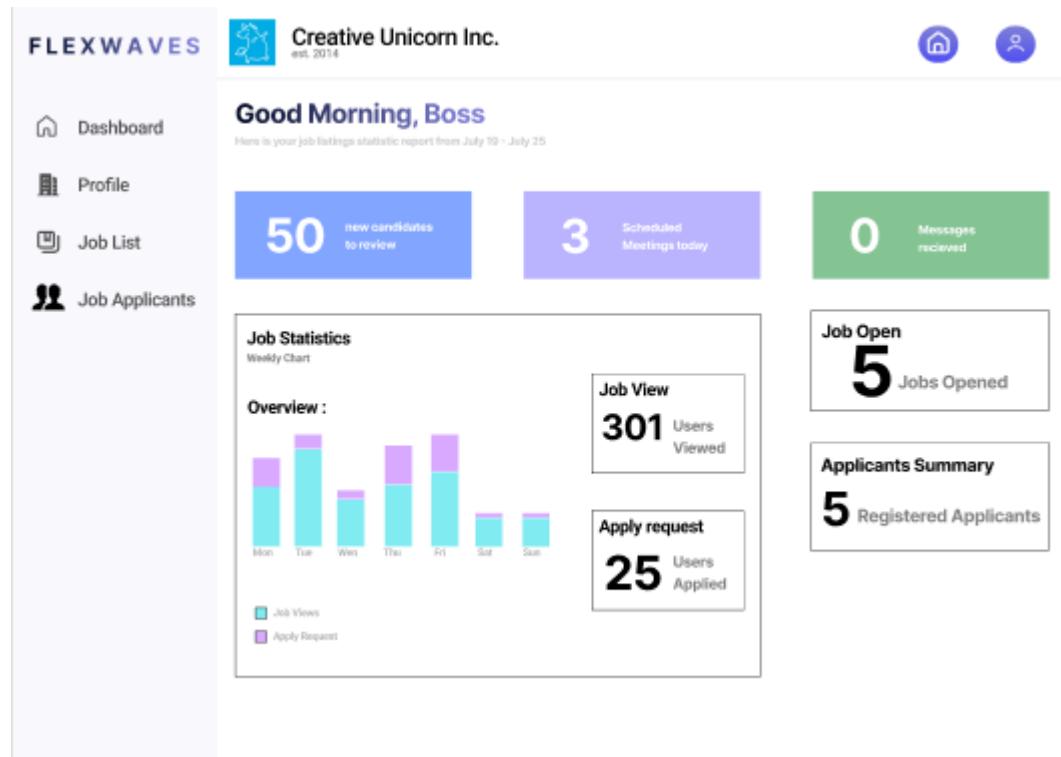


Figure 3.11 Company Dashboard Page

Figure 3.11 shows the Company Dashboard page. It contains an overview of their candidates, jobs, and statistics.

The screenshot shows the Flexwaves platform interface. On the left, a sidebar menu lists 'Dashboard', 'Profile', 'Job List', and 'Job Applicants'. The main content area displays the company profile for 'Creative Unicorn Inc.' (est. 2014). It features a blue unicorn logo, the company name, its website (<https://creativeunicorn.com>), and social media links for Facebook, Twitter, LinkedIn, and email. Key statistics include 'Founded March 7, 2014', 'Employees 300+', 'Location Kuala Lumpur', and 'Industry Non-Profit'. A 'Company Profile' section contains a mission statement: 'Creative Unicorn is a vibrant and innovative company that prides itself on fostering creativity, diversity, and uniqueness. Established in [Year], we have quickly become a trailblazer in the realm of creative solutions and have set our sights on revolutionizing the way people connect with employment opportunities.' Below this is a 'Contact Us' section with social media links.

Figure 3.12 Company Dashboard Page

Figure 3.12 shows the Company Dashboard page, which contains information about the company, such as its name, profile, and more.

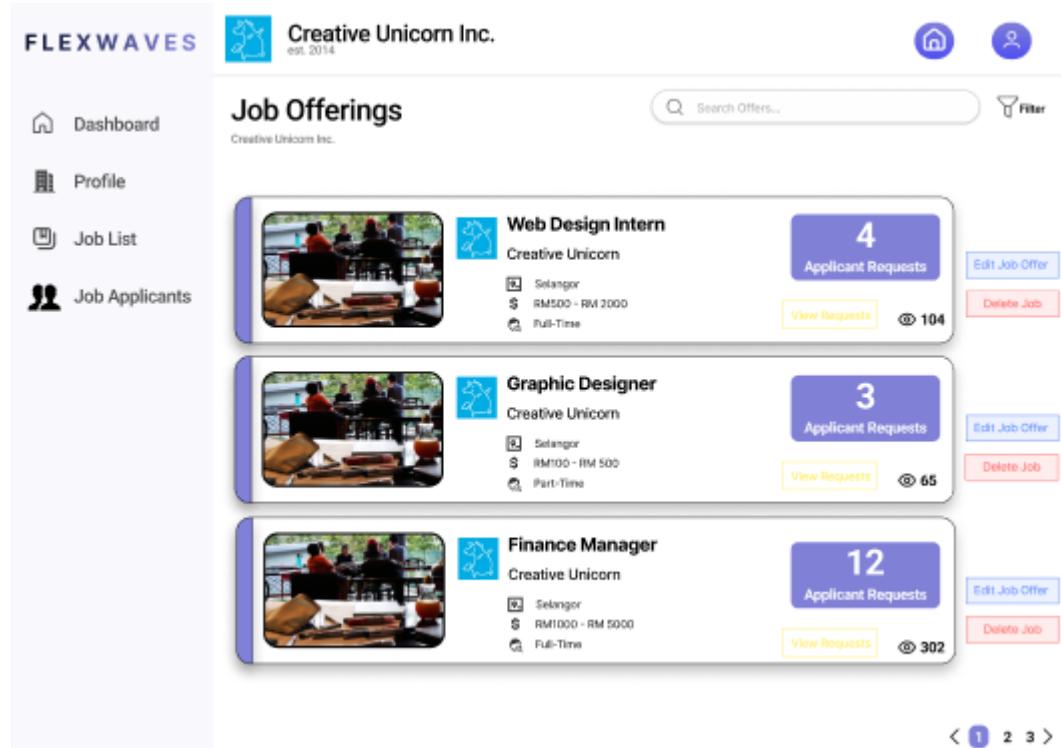


Figure 3.13 Company Joblist Page

Figure 3.13 shows the job listing for the company. The company can overview each of the jobs that they publish.

<input type="checkbox"/> Full name	Rating	Status	Applied date	Job Role	Action
<input type="checkbox"/> Haziq John	★ 3.6	Hired	18 October, 2020	Designer	<button>See Application</button>
<input type="checkbox"/> Ray Thomas	★ 3.0	Hired	2 July 2021	Developer	<button>See Application</button>
<input type="checkbox"/> Modou Samba	★ 0	Interview	25 November, 2020	Designer	<button>See Application</button>
<input type="checkbox"/> Eddy Jones	★ 3.1	Hired	13 March, 2021	Merch Design	<button>See Application</button>
<input type="checkbox"/> Emily Watson	★ 0	Interview	25 February, 2021	Designer	<button>See Application</button>

Figure 3.14 Company Applicants Page

Figure 3.14 shows the listing of applications for the company to view each individual.

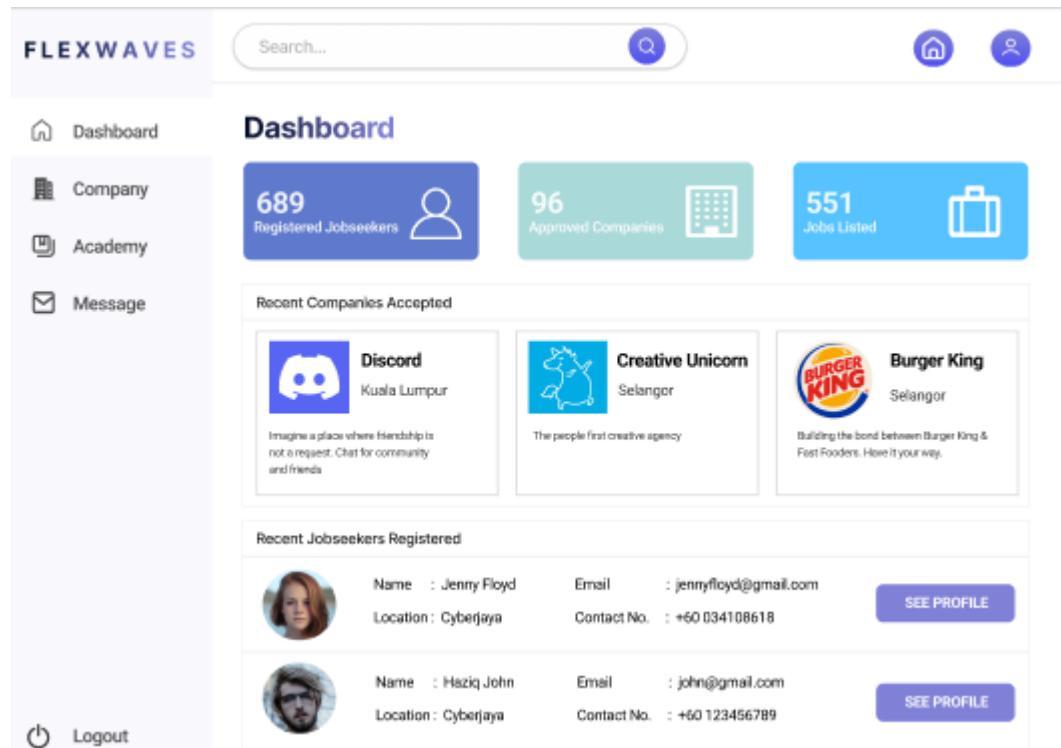


Figure 3.15 Admin Dashboard Page

Figure 3.15 shows the Admin dashboard page. It contains the system overview, which shows the number of jobseekers, companies and jobs listed.

The screenshot shows the 'Company' section of the Flexwaves admin interface. On the left, there's a sidebar with icons for Dashboard, Company (selected), Academy, Message, and Logout. The main area has a search bar at the top right. Below it, the title 'Company' is displayed. A table lists four companies:

	Company Name	Applied Date	Profile	Approval
<input type="checkbox"/>	Discord	11 November 2023	<button>SEE PROFILE</button>	<button>APPROVED</button>
<input type="checkbox"/>	Creative Unicorn	11 November 2023	<button>SEE PROFILE</button>	<button>APPROVED</button>
<input type="checkbox"/>	Burger King	11 November 2023	<button>SEE PROFILE</button>	<button>APPROVED</button>
<input type="checkbox"/>	Ubisoft	12 November 2023	<button>SEE PROFILE</button>	<button>APPROVE</button> <button>REJECT</button>

Figure 3.16 Admin Company Manage Page

Figure 3.16 shows the list of companies that the admin can view to check the companies before approving them to publish the job.

The screenshot shows a web application interface for managing company academies. At the top left is the logo 'FLEXWAVES'. To the right is a search bar with placeholder text 'Search...' and a magnifying glass icon. Further right are two circular icons: one with a house symbol and another with a user symbol.

The main content area has a header 'Academy' with a back arrow icon. Below it is a table with three columns: a checkbox column, a 'Name' column, and an 'Action' column. The table contains four rows:

	Name	Action
<input type="checkbox"/>	Learn to code	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Beginner Game Development	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	aero Advance Web Design	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

At the bottom of the table is a button labeled '+ Add academy...'. On the far left, a vertical sidebar lists navigation options: 'Dashboard' (selected), 'Company', 'Academy' (selected), and 'Message'. At the bottom of the sidebar is a 'Logout' button.

Figure 3.17 Admin Company Academy Page

Figure 3.17 shows the list of academies that the admin can manage.

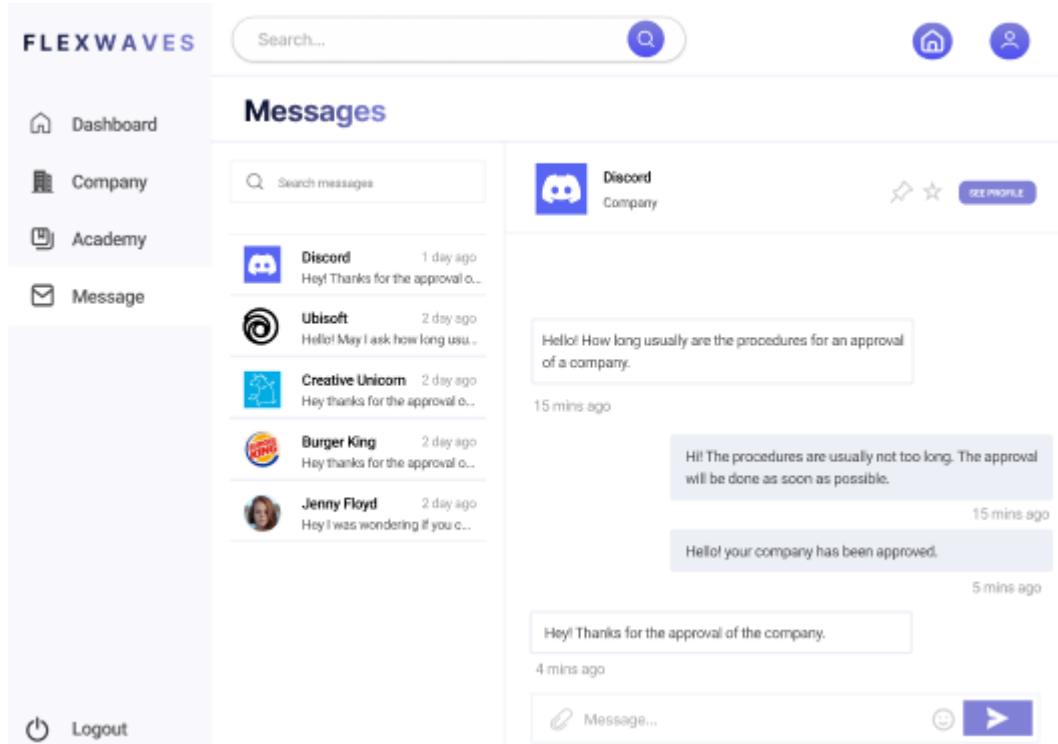


Figure 3.18 Admin Message Page

Figure 3.18 shows the Admin Message page, which the message can be between admin and jobseekers or admin and the company.

Appendices

1. Context diagram, DFD and ERD.
 - https://drive.google.com/drive/folders/1JZjNZZ9X_dqZ4c8zZw1Voo7rUUcPhj4v?usp=drive_link
2. Presentation slides
 - https://drive.google.com/file/d/1K_IFeXBq0YmUEhbouNze7cLRKZXVXwdnM/view?usp=drive_link
3. Title requisition form
 - https://drive.google.com/file/d/1CLkldta7XcAGCSINCdoj8uoDrVp5tJLb/view?usp=drive_link