Faculty of Computing

Universiti Malaysia Pahang Al-Sultan Abdullah

DRC1133 Web Programming

Semester 2 2024/2025

Final Assessment

Project Title: JobFinder

Group Members:

Matric Number	Name
RC24064	LUQMAN HAKIMI BIN ANUAR
RC24095	ASHRAF DANIAL FAKHRUL RAZI
RC24216	CLARENCE GABRIEL ALEXANDER
RC24201	EMIR HARRIS M ZAINUDIN

Table of Content

Case Study

1. Job Seeker

Individuals seeking employment often face the daunting task of navigating numerous job boards and company websites, leading to significant time investment in searching and applying. They frequently feel that their applications lack visibility once submitted.

They require the ability to efficiently discover relevant job postings that align with their skills, experience, and career aspirations. A streamlined application process, including easy resume uploads and saved personal data, is crucial for job seekers. They seek transparency through a clear way to track the status of their applications and desire personalised job recommendations to cut through the noise. Gaining insights into company culture and having avenues to connect with potential employers or networks within their industry are also highly valued.

This approach significantly reduces the time spent searching for suitable roles, increases the quality and relevance of applications, provides much-needed transparency throughout the hiring process, and empowers individuals to effectively present their qualifications to prospective employers.

2. Hiring Manager

Those responsible for hiring within organizations, whether recruiters or hiring managers, are constantly challenged to quickly find qualified candidates from a vast pool of applicants, many of whom may not be a good fit. Managing the entire recruitment lifecycle efficiently would be a hassle.

Their primary objective is to post job openings easily and effectively reach a targeted audience. They need to efficiently filter and short-list qualified candidates from a large volume of applications. Access to rich candidate profiles that offer more than just a traditional resume is essential for informed decisions. Finally, they need to measure the effectiveness of their recruitment efforts to optimise future strategies.

3. Website Administrator

Website administrators are responsible for ensuring the stability, security, and functionality of the JobFinder platform. They handle tasks such as user management, job listing oversight, and monitoring suspicious or malicious activity. Their role is critical in maintaining a seamless experience for both job seekers and employers.

They require full access to the backend of the system to monitor traffic, user activity, and error logs. When technical issues arise such as broken links, spam job postings, or user complaints the admin must be able to intervene immediately. This includes removing harmful content, suspending abusive accounts, and ensuring the system complies with performance and security standards.

By having access to a centralized admin dashboard, website administrators can swiftly address issues, manage users and job posts, and maintain the platform's overall health. Their work ensures the system runs smoothly for everyone and builds trust in the platform's reliability and professionalism.

Summary

The development of the JobFinder web application was guided by the practical needs of three main user groups, job seekers, hiring managers, and website administrators, each represented through their respective case studies. The features and pages of the system were carefully designed to address real-world challenges experienced by these users.

For job seekers, the focus was on creating an efficient, personalized, and transparent job application experience. The Browse Job page allows users to filter available jobs based on category, location, and relevant skills, helping them quickly find suitable positions. Through the Apply Job function, users can submit their resumes with minimal effort, thanks to a one-time resume upload system. All their applications are tracked in the Applied Job page, giving them clarity on where they've applied and the current status of each submission. Additionally, the

Profile page stores personal details, resumes, and preferences, enabling faster applications and supporting future personalized job recommendations.
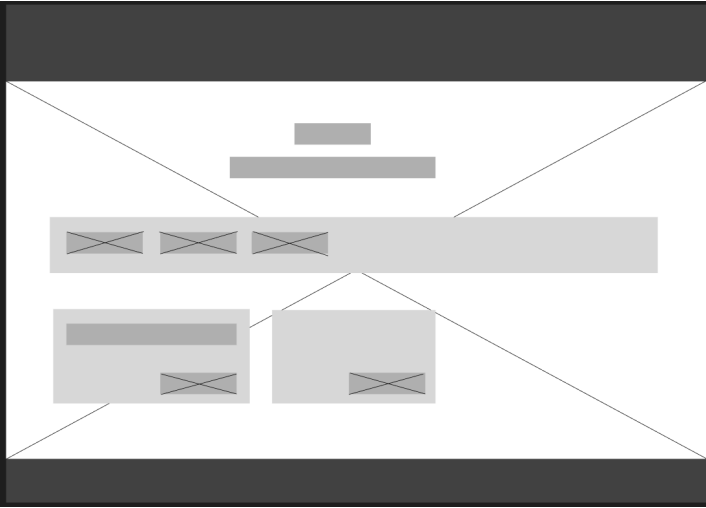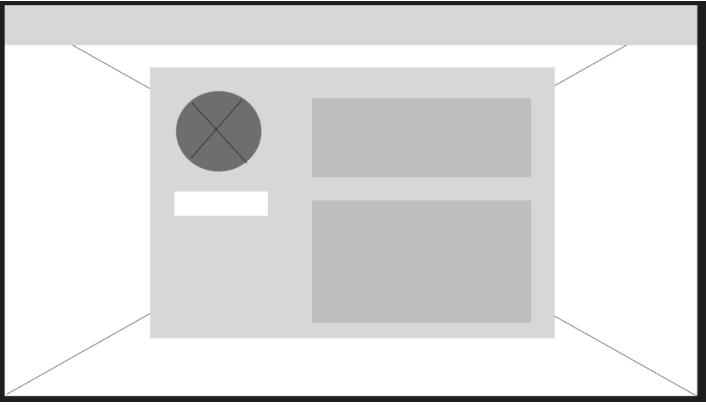
For hiring managers, the emphasis was placed on simplifying the recruitment process and improving the quality of applicants. They can use the Create Job page to easily post new job openings and then manage those listings through the Manage Job Listing page, where they can update or remove postings as needed. The View Applicant feature allows them to review detailed applicant profiles and resumes, helping them to identify strong candidates quickly and make informed hiring decisions.
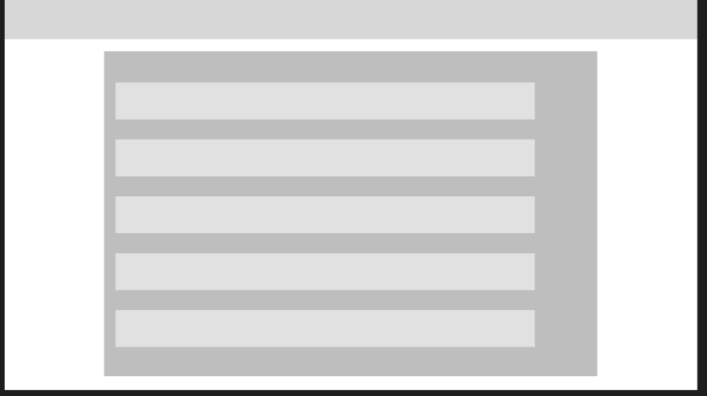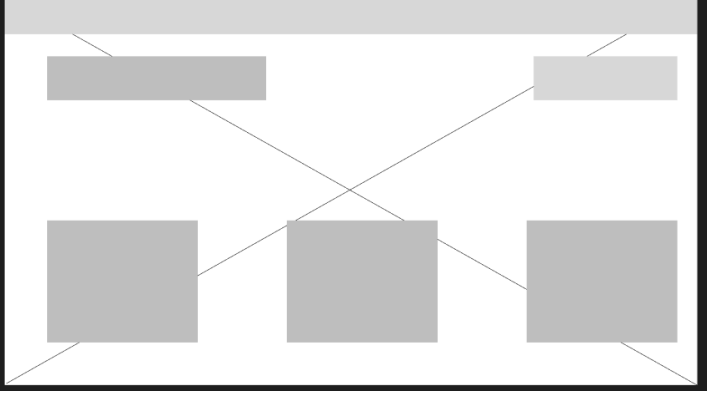
Meanwhile, website administrators are responsible for ensuring that the platform operates smoothly and securely for all users. The Admin Dashboard provides full access to monitor and manage user accounts, job listings, and system activity. This includes the ability to handle technical issues, remove inappropriate content, and detect any suspicious or malicious behavior, ensuring a safe and reliable environment for both job seekers and employers.
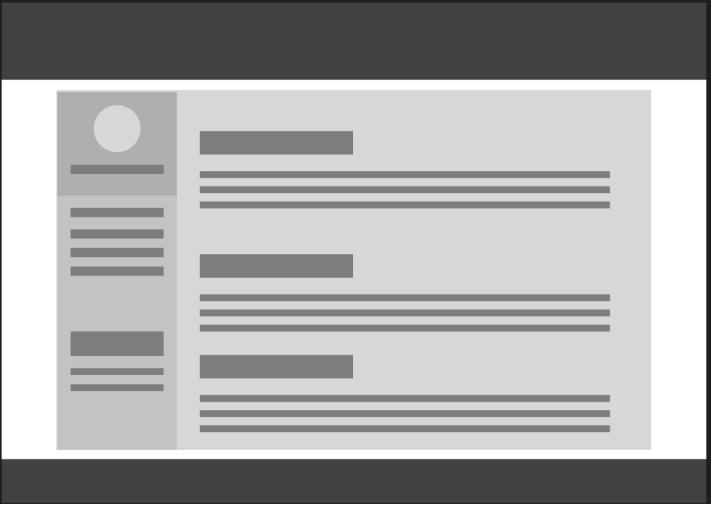
In conclusion, each of the system's pages was developed based on actual user pain points and behaviors uncovered in the case studies. By applying a role-based design approach and prioritizing usability, security, and transparency, JobFinder successfully meets the needs of its three core user types, empowering applicants to find meaningful jobs, helping employers recruit efficiently, and enabling administrators to maintain platform stability with confidence.

Web Page Wireframes

No.	Wireframe Image	Webpage Name	Description
1		Login page - Gabriel	This is page where user enter their email and password to authenticate their credential. There is also option to redirect to register for those want to register.
2		Register page - Emir	This is the page where user inserts their personal information for registration. This page can be accessed in from the login page

3		Browse Job page - Luqman	This is page where it show the list of jobs that has been advertise by employer. There is tags button to show particular job they want and also button apply now to apply the job which will redirect to Apply Job page.
4		Manage Profile page - Ashraf	Initial page lets you view your own profile, not allowing changes. Upon pressing Edit Profile below the profile icon, it will redirect to a page allowing users to update their details as listed in the initial site.
5		Apply Job page - Luqman	This is page where it showed more detailed about the job and notes for the employer by applicant. There is submit application button where applicant will be put in the list of applied job. The page will redirect the user to Browse Job Page after submit the application.

6		Applied Job page - Luqman	This is page where user can see their application details. This page has button to edit notes and button to remove application of their chosen job.
7		Create Job page - Ashraf	Coming from the Manage Jobs Listing page, employers can create a new job with their requirements needed to filter out unqualified job seekers.
8		Manage Job Listing page - Ashraf	This page is only visible to employers, it is the site where they would be redirected to upon logging in. In here, employers can manage all of their listed jobs, or create a new one.

9		View Applicant page - Gabriel	This is page for employer where employer can see applicant profile that apply to job advertise by employer.
10		Dashboard page - Gabriel	This is page for admin where they can suspend any job that seems malicious or suspend user if their are malicious.
11		View Applications Page - Gabriel	This is page for employer to see all application of their advertise job. If they choose any applicant it will redirect employer to view applicant page.

Database

Admin Table

Column Name	Primary Key/Foreign Key/None
Email	Primary Key
Password	None
Name	None
LastActive	None

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	**Email** 🔑	varchar(20)	utf8mb4_general_ci		No	*None*		
2	**Password**	varchar(200)	utf8mb4_general_ci		No	*None*		
3	**Name**	varchar(20)	utf8mb4_general_ci		No	*None*		
4	**LastActive**	timestamp			Yes	*NULL*		

Employer Table

Column Name	Primary Key/Foreign Key/Name
Email	Primary Key
Password	None
Name	None
Contact	None
Address	None
Description	None
Image	None

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	**Email** 🔑	varchar(20)	utf8mb4_general_ci		No	*None*		
2	**Password**	varchar(200)	utf8mb4_general_ci		No	*None*		
3	**Name**	varchar(50)	utf8mb4_general_ci		No	*None*	Name of user or company	
4	**Contact**	varchar(50)	utf8mb4_general_ci		No	*None*		
5	**Address**	varchar(50)	utf8mb4_general_ci		No	*None*		
6	**Description**	varchar(3000)	utf8mb4_general_ci		No	*None*	Company Description	
7	**Image**	varchar(200)	utf8mb4_general_ci		No	*None*		

User Table

Column Name	Primary Key/Foreign Key/Name
Name	None
Email	Primary Key
Password	None
PhoneNum	None
Address	None
COO	None
DoB	None
Gender	None
HiEdu	None
UniFeat	None
Resume	None
Image	None

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ListingID 🔑	int(20)			No	None		AUTO_INCREMENT
2	Position	varchar(100)	utf8mb4_general_ci		No	None		
3	EmployerID 🔑	varchar(20)	utf8mb4_general_ci		No	None		
4	JbLV	varchar(20)	utf8mb4_general_ci		No	None	Level for Applied Position(Entry, Intermediate etc)	
5	MinLV	varchar(20)	utf8mb4_general_ci		No	None	Minimum level of education(Diploma/GCSE)	
6	CourseType	varchar(50)	utf8mb4_general_ci		No	None	Course/Major Type(Science Com, Adminstration, Accounting, Busniess etc)	
7	CType	varchar(20)	utf8mb4_general_ci		No	None	Contract Type(Part Time, Full Time, Permanent)	
8	Salary	varchar(20)	utf8mb4_general_ci		No	None	Salary Range(Exp: 1499 - 2000)	
9	Tags	varchar(100)	utf8mb4_general_ci		No	None	Tags for SEO(Search Engine Optimization)	
10	PostDate	date			No	None	Date of Job Posted on	
11	Location	varchar(100)	utf8mb4_general_ci		No	None	Location of Job Position	
12	Status	varchar(20)	utf8mb4_general_ci		No	None		

Job listing Table

Column Name	Primary Key/Foreign Key/Name
ListingID	Primary Key
Position	None
Email	Foreign Key
JbLV	None
MinLV	None
CourseType	None
CType	None
Salary	None
Tags	None

PostDate	None
Location	None
Status	None

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Name	varchar(100)	utf8mb4_general_ci		No	*None*	Full Legal names of users	
2	Email 🔑	varchar(20)	utf8mb4_general_ci		No	*None*	User email for login, verification and notice	
3	Password	varchar(200)	utf8mb4_general_ci		No	*None*	User password. Saved in HASH format	
4	PhoneNum	varchar(18)	utf8mb4_general_ci		No	*None*	User phone number	
5	Address	varchar(100)	utf8mb4_general_ci		No	*None*	User address	
6	COO	varchar(40)	utf8mb4_general_ci		No	*None*	User Country of Origin(COO)	
7	DoB	date			No	*None*	User Date of Birth(DoB)	
8	Gender	varchar(40)	utf8mb4_general_ci		No	*None*	User Gender(Apache Helicopter)	
9	HiEdu	varchar(50)	utf8mb4_general_ci		No	*None*	Highest Level of Education for user(SPM/GCSE, Diploma, Degree etc)	
10	UniFeat	text	utf8mb4_general_ci		No	*None*	Unique Features for each users to tell the employer why they should hire them over others.	
11	Resume	varchar(200)	utf8mb4_general_ci		No	*None*	Resume File	
12	Image	varchar(200)	utf8mb4_general_ci		No	*None*		

Applied jobs Table

Column Name	Primary Key/Foreign Key/Name
AppID	Primary Key
UserEmail	Foreign Key
JobID	Foreign Key
Notes	None
Date	None

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	**AppID** 🔑	int(20)			No	*None*		AUTO_INCREMENT
2	**UserEmail** 🔑	varchar(20)	utf8mb4_general_ci		No	*None*		
3	**JobID** 🔑	int(11)			Yes	*NULL*		
4	**Notes**	varchar(500)	utf8mb4_general_ci		No	*None*		
5	**Date**	date			No	*None*		

Web App Flowchart

Applicant

Employer

Admin

```
        ┌─────────────┐
       (    Start      )
        └──────┬───────┘
               │
               ▼
        ┌──────────────┐
        │    Login     │
        └──────┬───────┘
               │
               ▼
        ┌──────────────┐
        │Admin Dashboard│
        │     page     │
        └──────┬───────┘
               │
               ▼
        ┌──────────────┐
        │   Logout     │
        └──────┬───────┘
               │
               ▼
        ┌─────────────┐
       (     End      )
        └─────────────┘
```
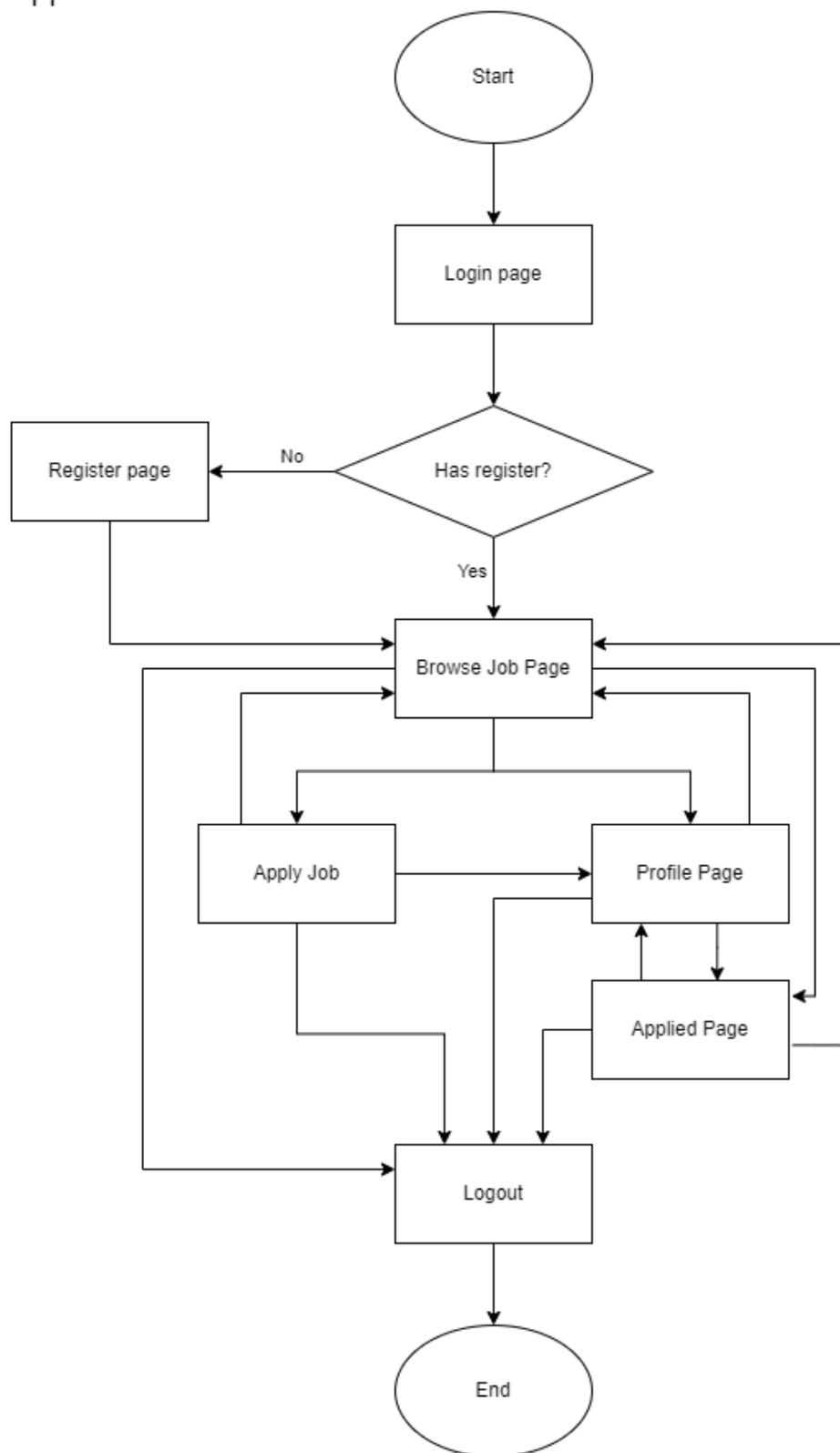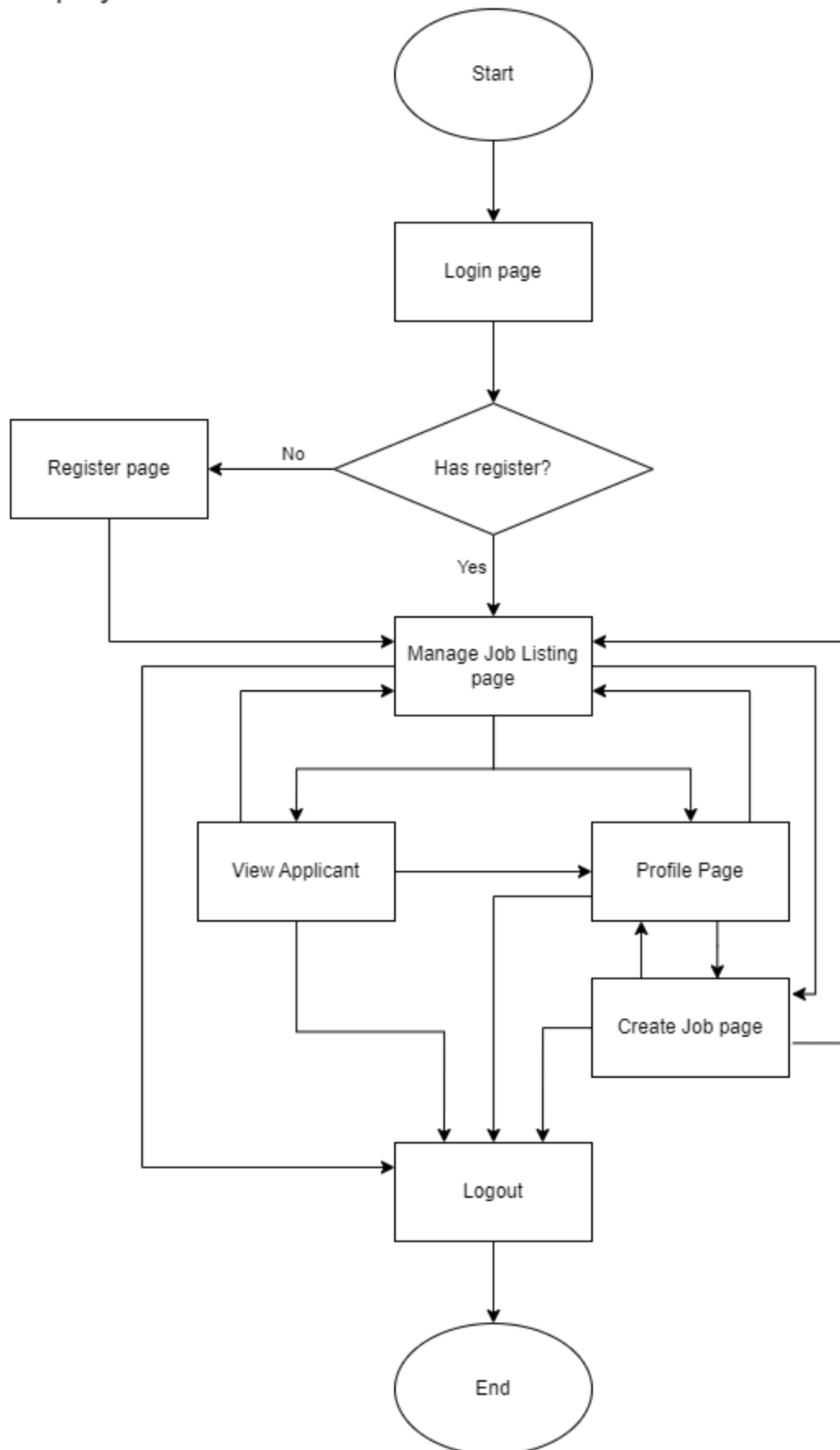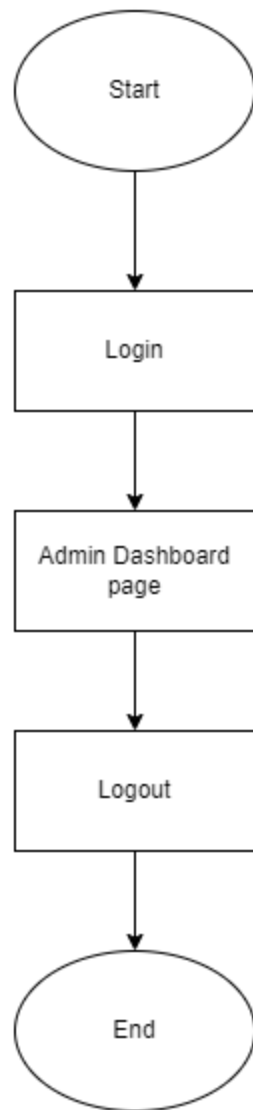
Inputs and Outputs of website

Page	Input	Output
Login page	● Email ● Password	● None
Register page	User ● Email ● Password ● Name ● Phone Number ● Date of Birth ● Address ● Country of Origin ● Gender ● Education Level ● Resume File ● Image File ● Interesting Feature Employer ● Email ● Password ● Name ● Contact Number ● Address ● Description ● Image File ●	● Redirects to login page
Browse job page	● Selecting Job	● Display Available job.

	● Selecting Tags	● JobID
Apply job page	● Notes ● Application submission ● Applicant email ● JobID	● Info about job in details.
Applied job page	● Edit Notes ● Withdraw Application ● Applicant email ● JobID	● Display job that has been applied.
Profile page	● Applicant Name ● Email ● Contact Number ● Home Address ● Unique Features about self ● Image	● Updated Applicant Name ● Updated Email ● Updated Contact Number ● Updated Home Address ● Updated Unique Features about self ● Updated Image
Create job page	● Job Position(required) ● Job Level(required) ● Minimum Level of Education(required) ● Field of Study ● Contract Type(required) ● Salary(required)	● Job Listing

	● Location(required) ● Tags	
Manage job listing page	● Job Position(required) ● Job Level(required) ● Minimum Level of Education(required) ● Field of Study ● Contract Type(required) ● Salary(required) ● Location(required) ● Tags	● Updated Job Listing
View Applicant page	● Applicant email	● Information about applicant
Dashboard page	● All information about employer, user, admin and job listing ● Update job listing status	● All information about employer, user, admin and job listing
View Applications page	● JobID	● User that apply to the specific job

References

1. Jobstreet (Inspiration)
2. Jora (Inspiration)
3. W3Schools
4. Photopea (for Logo)
5. Figma (Wireframe)
6. Pinterest (Design Inspiration)
7. Stack Overflow (For Troubleshoot)

Individual Planning Report

Student Name: Luqman Hakimi Bin Anuar

Student ID: RC24064

Task no.	1
Task description	Design Logo for JobFinder
Planning	- Find inspiration for the logo - Decide on how it should be look like - Make it and test if its suitable with the website
Instructions for members of the group	Do not use any other design and use the design made for the logo
Resources **(e.g., references, time, template, additional tools)**	- https://www.jobstreet.com/ - Photopea

Task no.	2
Task description	Deciding how many pages for the website

Planning	- Decide how many pages needed for our website - Assign each member with the amount website for each member - Make website flow and checked with the current one
Instructions for members of the group	- If there is addition or removal of website page needed to do, they need to inform it.
Resources **(e.g., references, time, template, additional tools)**	- https://www.jobstreet.com/

Task no.	3
Task description	Align the report with the project
Planning	- Create the report that align with the requirement and format needed. - Making sure every part needed for the report is documented.
Instructions for members of the group	- They have to fill in their part in the report

Resources **(e.g., references, time, template, additional tools)**	- Kalam - Google Docs

Task no.	4
Task description	Create Browse Job page
Planning	- Find inspiration from other website. - Plan the layout of the website page. - Make it functional with PHP and MySQL database.
Instructions for members of the group	- Align the design with the website to ease integration.
Resources **(e.g., references, time, template, additional tools)**	- https://www.jobstreet.com/ - W3Schools

Task no.	5
Task description	Create Apply Job page

Planning	- Find inspiration from other website. - Plan the layout of the website page. - Make it functional with PHP and MySQL database.
Instructions for members of the group	- Align the design with the website to ease integration.
Resources **(e.g., references, time, template, additional tools)**	- https://www.jobstreet.com/ - W3Schools

Task no.	6
Task description	Create Applied Job page
Planning	- Find inspiration from other website. - Plan the layout of the website page. - Make it functional with PHP and MySQL database.
Instructions for members of the group	- Align the design with the website to ease integration.

Resources **(e.g., references, time, template, additional tools)**	- https://www.jobstreet.com/ - W3Schools

Individual Planning Report

Student Name: Emir Harris bin M Zainudin

Student ID: RC24201

Task no.	1
Task description	Design Registration Page
Planning	- Find inspirations on the internet - Decide on a website design
Instructions for members of the group	Follow the layout and accent colours of this page as a base
Resources **(e.g., references, time, template, additional tools)**	- https://www.pinterest.com/

Task no.	2
Task description	Execute registration page design
Planning	- Design html forms for different types of registration - Made a css file for the registration page

	- Link the registration page with a script.js file - Put some inline css and internal script
Instructions for members of the group	Link this page with the login page
Resources (e.g., references, time, template, additional tools)	- https://www.pinterest.com/ - Browse Fonts - Google Fonts

Task no.	3
Task description	Connect the registration page with a database
Planning	- Create two php file each for respective form types - Link the two php file with the registration page - Test the connection and input some test data - Ensure everything is integrating perfectly
Instructions for members of the group	Design the page involving user information to use the database as well as the correct get request to the database
Resources	- https://www.w3schools.com/ - Browse Fonts - Google Fonts

(e.g., references, time, template, additional tools)	

Student Name: Ashraf Danial Fakhrul Razi

Student ID: RC24095

Task no.	1
Task description	Layout The Project Report Document
Planning	- Sectioning for the report document based on the question
Instructions for members of the group	- Divide tasks among members
Resources **(e.g., references, time, template, additional tools)**	- Google Docs

Task no.	2
Task description	Create the website for Managing Applicant Profile
Planning	- Gather inspiration from referenced site. - Gather reference from group members' sites. - Plan out the layout for the website accordingly. - Stylise the website.

	- Make it functional with PHP and MySQL interaction.
Instructions for members of the group	- Share any changes or bugs within the code to make sure it integrates well with their pages.
Resources **(e.g., references, time, template, additional tools)**	- [W3Schools](#) - https://www.jobstreet.com/

Task no.	3
Task description	Create Manage Job Listings website for Employers
Planning	- Gather inspiration from referenced site. - Gather reference from group members' sites. - Plan out the layout for the website accordingly. - Stylise the website. - Make it functional with PHP and MySQL interaction.
Instructions for members of the group	- Share any changes or bugs within the code to make sure it integrates well with their pages.
Resources	- [W3Schools](#) - https://www.jobstreet.com/

(e.g., references, time, template, additional tools)	

Task no.	4
Task description	Create Manage Profile website for Employers
Planning	- Recreate Applicant manage profile site. - Convert it into a site for employers instead.
Instructions for members of the group	- None
Resources (e.g., references, time, template, additional tools)	- W3Schools - https://www.jobstreet.com/

Individual Planning Report

Student Name: Clarence Gabriel Alexander

Student ID: RC24216

Task no.	1
Task description	Designing/Making the Login Page
Planning	- Find inspiration for the page - Figure out how to implement a multitable SQL check
Instructions for members of the group	Try to make it compatible with every page
Resources **(e.g., references, time, template, additional tools)**	- https://www.jobstreet.com/ - my.jora.com - w3schools.com

Task no.	2
Task description	Designing the database
Planning	- Figure out how to store data for multiple format(jpg, pdf) - Figure out how to store user information - Figure out how to probably access the information
Instructions for members of the group	Use this database format
Resources **(e.g., references, time, template, additional tools)**	- w3schools.com

Task no.	3
Task description	Making the backend of system
Planning	- Designing the basic CRUD for global implementation in system pages. (Connection to database, creating session, ending session)
Instructions for members of the group	Include the relevant files for each webpages
Resources **(e.g., references, time, template, additional tools)**	 - w3schools.com

Task no.	4
Task description	Design/Making the Admin Dashboard
Planning	- Making the dashboard based template - Merging 4 Webpage into 1 for better look/connectivity(ManageAdmin.php, ManageUser.php, ManageListing.php, Dashboard.php => Dashboard.php) - Implementing CRUD operations for each elements.
Instructions for members of the group	N/A
Resources (e.g., references, time, template, additional tools)	- Shizuku design - w3schools.com - Figma

Task no.	5
Task description	Making/View Applications.php
Planning	- Making a page that displays all applicants that applied to that job with fancy sql statement
Instructions for members of the group	Make sure the data is saved in xxx format
Resources **(e.g., references, time, template, additional tools)**	- stackoverflow.com - w3schools.com

Task no.	6
Task description	Writing report
Planning	- Finalizing certain data in report so it match the final product of system
Instructions for members of the group	N/A
Resources **(e.g., references, time, template, additional tools)**	- docs.google.com - Figma

Task no.	7
Task description	Merging all users work
Planning	- Merging the work done by other teamates - Use github for version control and merging
Instructions for members of the group	N/A
Resources (e.g., references, time, template, additional tools)	- Github

Task no.	6
Task description	Writing report
Planning	- Finalizing certain data in report so it match the final product of system
Instructions for members of the group	N/A
Resources **(e.g., references, time, template, additional tools)**	- docs.google.com - Figma

Task no.	7
Task description	Writing report
Planning	- Finalizing certain data in report so it match the final product of system
Instructions for members of the group	N/A
Resources **(e.g., references, time, template, additional tools)**	- docs.google.com - Figma

Logbook of meeting report

Meeting Information	Agenda	Photo of Meeting
Meeting No. : 1 **Date:** 11/6/2025 **Time:** 22:15 **Venue:** Bilik TV Blok F **Host:** Luqman **Attendees:** Luqman, Ashraf, Gabriel, Emir **Absentees(*Reason*):** None	1. Distribute tasks to every member. 2. Strategise on page design. 3. Designing back-end. 4. Planning and distributing on front-end work.	
Meeting No.: 2 **Date:** 15/6/2025 **Time:** **Venue:** Bilik 24 Jam, Library UMPSA Pekan **Host:** Luqman **Attendees:** Luqman, Ashraf, Gabriel, Emir **Absentees(Reason):** None	1. Finalize project work and compile everything into report.	