



Sprint 2 Documentation

SOEN390
SOFTWARE ENGINEERING TEAM PROJECT

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Part 1: Product Vision Statement

1. Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the simplified Jobshare app. It focuses on the capabilities needed by the stakeholders, and the target users, and why these needs exist. The details of how the simplified Jobshare app fulfills these needs are detailed in the use case and supplementary specifications.

2. Positioning

2.1. Problem Statement

The problem of	Being updated on several business and employment-focused social media platforms
affects	Job seekers, recruiters, and business people
The impact of which is	That they are unable to keep track of multiple platforms without spending significant time searching for topics in their specific interest area
A successful solution would be	To create an application that provides business and employment-focused topics on one platform

2.2. Position Statement

For	Students, recruiters, and business people
Who	Want to follow business and employment-focused topics
The Jobshare app	Is a software product
That	Enables users to network professionally through their career development and allows job seekers to post their CVs and employers to post jobs
Unlike	The current state of which multiple platforms must be used to network professionally and to post/find jobs
Our product	Enables users to expand their professional network and allows for employers to post job opportunities for job seekers

3. Stakeholder and User Descriptions

3.1. Stakeholder Summary

Name	Description	Responsibilities
Shareholders	Individuals from which the money is used for the development of the project	<ul style="list-style-type: none"> - Approve the business plan of the project - Provide financing for the development of the application
Project Managers	Individuals responsible for the planning of the project.	<ul style="list-style-type: none"> - Ensure that there will be a market demand for the app - Involve in the planning of the project - Ensure the development progression according to the required time constraints
Developers	Group of individuals that are responsible for creating the application.	<ul style="list-style-type: none"> - Work on the development of the app - Ensure that all required features are being added - Work on quality assurance and testing of project

3.2. User Summary

Name	Description	Responsibilities	Stakeholder
Job seekers	The people looking for job opportunities.	<ul style="list-style-type: none"> - Create profile page - Connect with people - Post about personal qualifications - Read and apply for job offers 	Self-represented
Recruiters	The people matching qualified candidates with open positions.	<ul style="list-style-type: none"> - Create profile page - Connect with people - Post about job opportunities - Read and match candidates with open positions 	Self-represented
Professionals	The people that are members of a profession/	<ul style="list-style-type: none"> - Create profile page - Connect with people - Post about their relevant achievements/topics 	Self-represented

3.3. User Environment

3.3.1. People Involved in Completing a Task

This value will vary depending on the task and the user. For example, for a job seeker to form a connection with a recruiter, they must first send a connection request. The recruiter will then analyze the applications and decide whether to accept or refuse the request. The task of creating a connection requires two users. However, most of the available tasks can be executed individually.

3.3.2. Task Cycle and the Amount of Time Spent in Each Activity

The amount of time spent depends on the task and the activity chosen. It takes a short amount of time for a user to read and react to a post compared to the writer that wrote it. A recruiter will take longer to match a candidate to a job than to post about the job offer on the platform.

3.3.3. Environmental Constraints

This application will require the user to have a mobile device or computer to access the platform. For most tasks, the user will require a stable internet connection to browse and use the online platform.

3.3.4. System Platforms Currently in Use

There are a variety of platforms in use today such as Atleto, Indeed, and Jobcase. We believe our platform offers the most features while implementing them in a way that will benefit our users. Therefore, our platform will not have to integrate the existing platforms and will be capable of running its own system.

3.4. Stakeholder or User Needs

3.4.1 User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Networking tools: - Ability to send/receive messages - Ability to endorse/recommend other users	3	The limited interaction with other users.	Creation of an inbox and a method to connect requests.	Adding more interactive features such as video conferencing or group messages.
A way to apply for jobs and to receive updates on their application status.	4	Difficulty when tracking job applications.	Creation of a job tracking system in the profile.	Having notifications and reminders regarding application deadlines and follow-ups.

A way to create and maintain a professional profile.	2	Difficulty when showing professional experience and skills.	Creation of sections in the profile to showcase about education, work experience, and skills.	The option to upload multimedia content, such as images and videos to their profile.
An interface for easy navigation and searching for job opportunities, people, and companies	1	Difficulty when finding the desired content.	Creation of a navigation menu and a search bar.	The implementation of advanced search filters and a personalized homepage according to the desired content.
Access to - A wide range of job opportunities - A diverse group of potential employers and colleagues	5	A limited amount of job opportunities for employers.	Creation of a job search feature and company pages.	An expansion of the job search feature to include different types of jobs such as remote or freelance jobs.

3.4.2 Stakeholder Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Security measures to protect user data.	1	A high risk of data breaches.	The basic security measures.	Implementation of advanced security measures such as two-factor authentication or encryption.
Tools to measure the application's performance and growth. (Analytics and metrics)	3	The difficulty in measuring an application's success.	Using basic analytics and metrics.	Implementation of advanced analytics and A/B testing.
To ensure compliance with relevant regulations and laws.	5	The people are non-compliant with regulations.	Using basic compliance measures.	Hiring compliance experts and regular audits.

A way to monetize the platform is through advertising or premium services.	2	The difficulty in generating revenue.	Using advertising and premium services.	The introduction of multiple revenue streams. (Sponsored content and job postings)
A means to scale the application to accommodate a large number of users.	4	The difficulty in handling high traffic.	Using cloud hosting and load balancers.	Implementation of more efficient and scalable technologies like microservices.

3.5. Alternatives and Competition

Competing Platforms	Strengths	Weaknesses
Glassdoor	<ul style="list-style-type: none"> - Provides company information (salary data, reviews from employees) - Allows the users the opportunity to research about the company before applying for the job 	<ul style="list-style-type: none"> - A limited job search and application tools - A limited professional development options and networking opportunities
Indeed	<ul style="list-style-type: none"> - A user-friendly interface and search functionality - A wide range of job opportunities from various industries and locations - Has job application tools - Helps users to build their resume 	<ul style="list-style-type: none"> - A limited professional development options and networking opportunities - A limited information regarding the company and employee
Upwork	<ul style="list-style-type: none"> - A large range of freelancing opportunities - The option of short-term or long-term work arrangements 	<ul style="list-style-type: none"> - A limited professional development options and networking opportunities - Limited research options regarding the company - Fewer options on traditional full-time job opportunities

4. Product Overview

4.1. Product Perspective

This Jobshare app is a professional networking and job search platform. It allows users to connect with other professionals in their industry, build a professional profile, and search for job opportunities. From a user's perspective, this application is a valuable tool for building and maintaining professional connections in addition to searching for job opportunities. Users are informed regarding industry developments and have the ability to connect with potential employers or clients. Nonetheless, it provides users with the ability to showcase their professional experience and skills.

4.2. Assumptions and Dependencies

Assumptions	Dependencies
<ul style="list-style-type: none">- Users have access to the internet- Users have access to a device capable of accessing the application- Users want to create a professional profile and share their personal information online- Users want to connect with other professionals- Users want to receive messages and invitations from other users- Users understand how to use and navigate through the applications with its features- Users are actively seeking for job opportunities- Users want to have professional connections	<ul style="list-style-type: none">- The app requires a user-friendly interface with intuitive navigation- The app requires a reliable and secure hosting system to store user data to prevent unauthorized access- The app requires to handle high traffic- The app requires a robust search functionality to allow users to find job opportunities or to connect with other professionals- The app requires a reliable and efficient messaging system

5. Product Features

Feature	Description	Priority	Stability	Benefit	Effort	Risk
Account creation	Allows users to create a profile that includes their professional and personal information such as education, experience, and skills.	High	High	High	Medium	Low
Search function	Allows users to search for other users, companies, and jobs listings.	High	High	High	Medium	Low

Networking function	Allows users to connect with other users, view their connections, and message them directly.	High	High	High	Medium	High
Secure messaging	Allows users to message other users securely.	High	High	High	Medium	Medium
Job listings	Allow users to view and apply to job listings.	High	High	High	Medium	Low
Company pages	Allow users to view information about companies such as their employees and job listings.	High	High	High	Low	Low
News feed	Allows users to view updates from their connections such as new job listings and company updates.	Medium	High	Medium	Low	Medium
Notifications	Allow users to receive notifications for events such as connection requests, messages, and job applications.	High	High	High	Medium	Low
Analytics	Allow users to view the statistics on their profile such as views, job application views, and other activity.	Medium	High	Medium	High	High
Resume builder	Allows users to create and upload a resume to their profile.	High	High	Medium	Medium	Medium
Privacy settings	Allow users to control the visibility of their profile and activity.	High	High	High	Medium	High
Virtual Career Fair	Allow users to attend virtual career fairs and connect with employers.	Medium	High	High	Medium	Medium
Company pages	Allow users to view information about companies.	High	High	High	Medium	Low

Career advising	Allows users to receive career advice and guidance from industry experts.	Medium	High	Medium	High	Medium
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6. Other Product Requirements

6.1. Requirements

6.1.1. Applicable Standards

- SSL/TLS for secure communication
- OAuth for authentication and authorization
- Data privacy regulations

6.1.2. Hardware Requirements

- Server infrastructure to handle user traffic and data storage
- Load balancer to distribute traffic
- Database management system
- Backup and disaster recovery systems

6.1.3. Platform Requirements

- Front end: React
- Database: firebase
- State management: Redux
- Backend: Node JS

6.1.4. Performance Requirements

- High availability and scalability
- Low latency for user interactions
- High throughput for handling large amounts of data
- Regular maintenance and performance tuning

6.1.5. Environmental Requirements

- Secure data centers with proper cooling, power, and fire suppression systems
- Regular backups and disaster recovery procedures to ensure data safety
- Compliance with relevant data privacy regulations
- Regular security audits and vulnerability assessments

6.2. Constraints

6.2.1. Design Constraints

- User-centered design principles to ensure ease of use and accessibility
- Responsive design to support various screen sizes and devices
- Accessibility guidelines to support users with disabilities
- Branding guidelines to maintain consistency with the company's visual identity

6.2.2. External Constraints

- Integration with external systems such as recruitment management systems or applicant tracking systems.
- Compliance with data privacy regulations
- Integration with social media platforms for user login, sharing, and profile linking.
- Integration with payment systems for premium features or job postings.

6.3. Dependencies

- Dependence on third-party services for features such as video conferencing, analytics, or email marketing
- Dependence on third-party libraries or frameworks for specific functionality
- Dependence on external data sources such as salary data or job listings
- Dependence on internal teams or external partners for specific features or integrations.

Part 2: User Stories Backlog (USB)

Issue ID: #1		Title: Create user profile	
Story Points: 8		Priority: High	Status: Completed
As a	user		
I want to	be able to create a profile on the platform using my email address or my Google account		
So that	I can use the website and connect with other professionals		
<p>Description: When I navigate to the registration page, I am presented with two options for creating my profile. The first option allows me to enter my basic information, including my name, email address, and password, to create an account on the platform. The second option allows me to sign up with my Google account, which will pre-fill some of my profile information using the data from my Google account (such as the name).</p> <p>Once I choose my way of signing up, I am redirected to the profile creation page. Here, I am presented with the option to add additional information about myself. I can choose to complete all of these sections at once or return to the profile creation page later to add more information.</p> <p>After completion of my profile, I can start using the platform as a member.</p>			
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given a user who wants to create a profile, When the user accesses the platform's homepage, Then the user should be able to access the registration page. Given a user who wants to create a profile, When the user accesses the registration page, Then the user should see two options for creating a profile: entering basic information or signing up with a Google account. Given a user who has completed their profile, When the user accesses their profile page, Then the user should be able to view their profile, edit it, and the information should be accurate and displayed correctly. 			

Issue ID: #32		Title: Edit profile	
Story Points: 2		Priority: High	Status: Completed
As a	user		

I want to	be able to manage and edit my profile
So that	I can keep my profile updated
<p>Description: When I want to edit my profile, I should be able to access and edit various sections of my profile, such as my profile picture, bio, contact information, education, and work experience, interests, and private settings.</p> <p>By being able to manage and edit my profile, I can present myself in the best possible light to other users and increase my chances of building meaningful connections and relationships</p>	
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given a user is logged in to a social media platform or community website When they navigate to their profile page Then they should be able to view and edit various sections of their profile, such as their profile picture, bio, contact information, education and work experience, interests, and privacy settings And they should be able to save their changes and see the updated information reflected on their profile page And they should be able to undo or revert any changes made to their profile if needed 	

Issue ID: #23		Title: Invite other users to join the network	
Story Points: 3		Priority: High	Status: Completed
As a	user		
I want to	send an invitation to a user		
So that	I can expand my network on the platform		
<p>Description: When I visit another user's profile, I should be able to click a button in order to send a network request to that user.</p> <p>When I send a request, the receiving user should have the option to accept or reject it. If the user accepts my request, we should both be added to each other's network, and we should be able to view each other's profiles and any posts or content that we share on the platform.</p>			
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given a user visiting another user's profile, When the user views the profile, Then there should be a button that allows the user to send a connection request. Given a user who receives a connection request, When the user receives the request notification, Then the user should have the option to accept or reject the request 			

Issue ID: #24		Title: Users can accept or reject invitations	
Story Points: 2		Priority: High	Status: Completed
As a	user		
I want to	accept, reject or ignore other users invitations		
So that	I can accept or decline the request and manage my network of connections on the platform		
<p>Description: When I receive a connection request from another user, I should receive a notification that indicates the invitation.</p> <p>From the notification, I should be able to navigate to a page or section of the platform that allows me to view the connection request and either accept or decline the request. If I choose to accept the request, the user who sent the request should be added to my network.</p> <p>I should be able to view all my pending connection requests and manage each request by accepting or declining the request.</p>			
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> 1. Given a user who has received a connection request, When the user navigates to the connections section of the platform, Then the user should be able to view the connection request. 2. Given a user who has received a connection request, When the user views the connection request, Then the user should be able to either accept or decline the request. 3. Given a user who has accepted a connection request, Then the inviting user should be added to the receiving user's network. 			

Issue ID: #25		Title: Users can remove connections	
Story Points: 1		Priority: High	Status: Completed
As a	user		
I want to	remove connections		
So that	I can manage my network and maintain connections that are relevant to me		
<p>Description: In my connections section, I should be able to see a list of all the users I'm currently connected with, an option to remove the connection with a user, and remove a connection with a user directly from their profile.</p>			

Acceptance Criteria:

1. Given a user who is logged in to the platform,
When the user goes to the connections section,
Then the user should be able to view a list of all their current connections.
2. Given a user is viewing their connections list,
When the user selects a connection from the list,
Then the user should be presented with an option to remove the connection.

Issue ID: #5		Title: Directly message connected users	
Story Points: 8		Priority: Medium	Status: To do
As a	user		
I want to	directly message another connected user		
So that	I can communicate with them privately		
Description:			
When I navigate to the messaging section of the platform, I should be able to see a list of all my previous conversations and any unread messages. From there, I should be able to start a new conversation with another user by clicking on their name.			
I should also be able to start a private message with a user from their profile if they are in my network.			
Acceptance Criteria:			
<ol style="list-style-type: none"> 1. Given a user who is logged in to the platform, When the user clicks on another user's name or username from the messaging section or clicks the message button from their profile, Then the user should be able to start a new conversation with the other user. 2. Given a user who receives a new message, Then the user should receive a notification that they have a new message. 3. Given a user who is engaged in a conversation, When the user views the conversation, Then the user should be able to see the status of each message (read, unread). 4. Given a user who is logged in, When the user needs to report a user, Then the messaging system should have the necessary features to allow the user to report other users. 5. Given a user who is using the messaging system, When the user needs to manage their conversations, Then the messaging system should have features to allow the user to easily delete conversations. 			

Issue ID: #6	Title: Allow the exchanges of files
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Story Points: 3		Priority: Medium	Status:
As a	user		
I want to	send different types of files to connected users		
So that	I can share relevant information and media with other users efficiently		
Description:			
<p>In a direct message conversation with another user, I should be able to attach different types of files to my message, including documents, images, and videos. The platform should support a range of common file formats, and the maximum file size for each attachment should be clearly stated.</p> <p>When I select a file to attach to my message, I should be able to preview the file to ensure that I have selected the correct file.</p> <p>When the other user receives my message, they should be able to view the attached files and download them if necessary.</p>			
Acceptance Criteria:			
<ol style="list-style-type: none"> 1. The user should be able to attach different types of files to direct messages. 2. When the user selects a file to attach to their message, they should be able to preview the file to ensure that it is the correct file. 			

Issue ID: #7		Title: Moderate and review direct messages	
Story Points: 5		Priority: Low	Status: To do
As an	admin		
I want to	moderate and review direct messages		
So that	It ensures that the platform is being used appropriately and that users are not violating the platform's policies.		
Description:			
<p>When I log in to the platform, I should be able to view a list of all direct message conversations that have been reported by users.</p>			
Acceptance Criteria:			
<ol style="list-style-type: none"> 1. Given that the platform has a reporting system for users to report conversations violating policies, When a moderator accesses the reported conversations section, Then the platform should display all reported conversations. 			

Issue ID: #9	Title: Recruiters can add/edit job postings
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Story Points: 13		Priority: High	Status: Completed
As a	recruiter		
I want to	post job offers and manage them		
So that	Users can see and apply for jobs to fill open positions		
Description: When I want to post a job offer, I should be able to access a job posting form. The form should include fields for job titles, job descriptions, required qualifications, salary ranges, and other information about the position.			
Acceptance Criteria:			
<ol style="list-style-type: none"> 1. Given a recruiter is logged in to the platform, When they press the job posting button, Then they should be able to input all required job details including job title, job description, qualifications, compensation, location, and application instructions. 2. Given a recruiter is logged in to the platform, When they navigate to their past job postings, Then they should be able to view a list of all their existing job postings and have the ability to edit or delete them as needed. 3. Given a recruiter is logged in to the platform, When they navigate to a specific job posting, Then they should be able to view a list of all applicants who have submitted applications for that job with their profile. 			

Issue ID: #26		Title: Recruiters can add/remove adverts	
Story Points: 5		Priority: Medium	Status: To do
As a	recruiter		
I want to	add/remove adverts		
So that	I can quickly and easily add and remove adverts		
Description:			
Acceptance Criteria:			
<ol style="list-style-type: none"> 1. Given a job seeker applied for a job, Then the recruiter should receive the application via email. 			

Issue ID: #27		Title: Apply for jobs with stored documents	
Story Points: 3		Priority: High	Status: To do
As a	job seeker		
I want to	apply for jobs using my stored documents		
So that	I easily and efficiently submit my application to potential employers.		
<p>Description: When I find a job opening that I'm interested in, I should be able to access the application form from the job posting. The application form should provide the option to upload my resume and cover letter from my stored documents, or to upload new ones.</p> <p>I should be able to select the documents I want to use from my document library.</p>			
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given a job seeker has stored documents on a job search website When they apply for a job Then they should be able to select their stored documents And the application form should be pre-filled with information from the stored documents And the job seeker should be able to review and edit the pre-filled fields And the job seeker should be able to submit their application with their selected stored documents attached Given a job seeker has updated their stored documents on a job search website When they apply for a job Then they should be notified of the update to their stored documents And they should be able to choose whether to use the previous or updated version of their stored documents for their application And the application form should be pre-filled with information from the selected stored documents And the job seeker should be able to review and edit the pre-filled fields And the job seeker should be able to submit their application with their selected stored documents attached 			

Issue ID: #28		Title: Apply for jobs with new documents	
Story Points: 3		Priority: High	Status: To do
As a	job seeker		
I want to	apply using my stored documents		
So that	It is easier for me to apply		
<p>Description: When I find a job opening that I'm interested in, I should be able to access the application</p>			

form from the job posting. The application form should provide the option to upload my resume and cover letter from my stored documents, or to upload new ones.

I should be prompted to upload new ones.

Acceptance Criteria:

1. Given a job seeker has stored documents on a job search website
 When they apply for a job
 Then they should be able to choose to use their stored documents or upload new or updated documents
 And the application form should be pre-filled with information from the selected documents
 And the job seeker should be able to review and edit the pre-filled fields
 And the job seeker should be able to submit their application with the selected documents attached

Issue ID: #12		Title: Choose mandatory documents	
Story Points: 3		Priority: High	Status: To do
As a	recruiter		
I want to	choose mandatory documents needed for applications		
So that	applicants can submit the required documents during the application process		
Description:			
When creating a new job offer, I should be able to select which documents are required for the application, such as a resume, cover letter, or reference list.			
If an applicant submits an application without the required documents, the platform should automatically reject the application and notify the applicant that the application is incomplete.			
Acceptance Criteria:			
1. Given that I am a recruiter who is creating a new job offer, When I am in the process of creating the job offer, Then I should be able to select which documents are required for the application process.			
2. Given that I am a job seeker who is viewing a job offer, When I look at the job offer details, Then I should be able to see which documents are mandatory for the application process.			

Issue ID: #13		Title: Post external jobs	
Story Points: 2		Priority: Low	Status: To do
As a	recruiter		

I want to	post jobs hosted on third-party platforms
So that	Users can find/apply to external offers
<p>Description: When I log in to the platform as a recruiter, In the job posting section, I should be able to post external job offers as links.</p> <p>If I choose to post an external job offer, I should be able to provide a link to the original job posting on the third-party platform. The link should be clickable and take users directly to the external job posting.</p>	
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given a recruiter has an account on the platform and is logged in When the recruiter navigates to the job postings section And selects the option to post an external job offer Then the recruiter should be able to provide the job title, description, Qualifications and requirements, and location and post the job's link. 	

Issue ID: #29		Title: Create groups	
Story Points: 3		Priority: Low	Status: To do
As a	user		
I want to	create groups on the platform		
So that	connect and communicate with like-minded individuals		
<p>Description: When I create a group, I should be able to choose the name and description of the group. Once the group is created, I should be able to invite other users to the group.</p>			
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given a user is logged in, When the user navigates to the Groups section, Then the user should be able to create a new group by providing a name, and description. Given a user is logged in, When the user is a group owner/admin, Then the user should be able to invite others to his group 			

Issue ID: #30		Title: Join groups	
Story Points: 3		Priority: Low	Status: To do

As a	user
I want to	be able to join groups
So that	I can engage with other users who share similar interests or backgrounds
Description: When I am a user, I want to be able to join groups that align with my interests, hobbies, or background, so that I can connect and engage with other users who share similar interests, and expand my network.	
Acceptance Criteria: <ol style="list-style-type: none"> Given that I am logged in, When I search for groups on the platform, Then I should be able to see a list of available groups that I can join. When I click on a group from the list, Then the platform should display relevant information about the group, such as the group description, rules, and current members, And I should be able to click a button to join the group. 	

Issue ID: #15		Title: View notifications	
Story Points: 5		Priority: Medium	Status: To do
As a	user		
I want to	have a notification section		
So that	I can get all recent activities		
Description: When I log into the platform, I should be able to access the notification section. In the notification section, I should be able to view a list of all recent notifications, including notifications such as connection requests or job posting updates.			
Acceptance Criteria: <ol style="list-style-type: none"> Given that I am logged in, When I navigate to the notification icon or link, Then I should be directed to the notification section. 			

Issue ID: #16		Title: Create a page	
Story Points: 5		Priority: High	Status: To do
As a	Company owner or representative		

I want to	create a company page
So that	I post updates about the company
<p>Description: When I navigate to the platform, I should be able to create a company page from the main menu options. I should be able to enter basic information about my company, such as the company name, description, page profile picture, and contact information.</p> <p>In addition, I should be able to customize the company page with additional content, such as photos, videos, and links to my company website and social media accounts. I should also be able to create posts and updates that appear on the company page and in the platform's feed.</p>	
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given that I am a company owner who wants to create a company page, When I navigate to the appropriate section of the platform, Then I should see a form with fields to enter information about my company, such as the company name, description, and location. Given that I am creating a company page, When I fill out the required fields and submit the form, Then my company page should be created and visible on the platform, and users should be able to search and find my page. 	

Issue ID: #18	Title: Save items	
Story Points: 5	Priority: Low	Status: To do
As a	user	
I want to	save posts, pages, jobs and events	
So that	access and refer back to them later	
<p>Description: When I see a post or job offer that I want to save, I should be able to click a "save" button to add it to my saved items list.</p> <p>From the menu, I should be able to access my list of saved items and see all the items I have saved. For each item, I should be able to see its title, a brief summary or description, and be able to click it to view the full item.</p> <p>I should also be able to remove items from my saved list.</p>		
<p>Acceptance Criteria:</p> <ol style="list-style-type: none"> Given a user is logged in and viewing content on the platform, When the user wants to save a post, job offer, or other content, 		

Then the user should be able to click a "Save" button to add the content to their saved items list,
 And the saved items list should be easily accessible from the main navigation menu,
 And the user should be able to view and manage their saved items list, including deleting items.

Issue ID: #19		Title: View suggested users	
Story Points: 8		Priority: Low	Status: To do
As a	user		
I want to	have a suggested users page		
So that	connect with people that I potentially know and grow my network.		
Description: When I navigate to the suggested user's section, I should be presented with a list of recommended users based on my interests, search history, and connections. Each user should be accompanied by their profile picture, name, and a brief description of their background or interests. If I find a user that I'm interested in following, I should be able to click on their profile picture to view their full profile and choose to connect with them by sending an invite.			
Acceptance Criteria: 1. Given that the user is logged in to their account, When the user navigates to the "suggested users" section, Then the platform should display a list of suggested users based on factors such as shared interests, connections, and activity on the platform. 2. Given that the user is in the suggested user's section, When the user clicks on a profile, Then the user is taken to that user's profile.			

Issue ID: #20		Title: Choose the language	
Story Points: 5		Priority: Low	Status: To do
As a	user,		
I want to	choose in which language the platform would be		
So that	I understand the content and use the platform in my preferred language.		
Description: When I navigate to the platform, I should be able to select my preferred language from a list of available languages.			

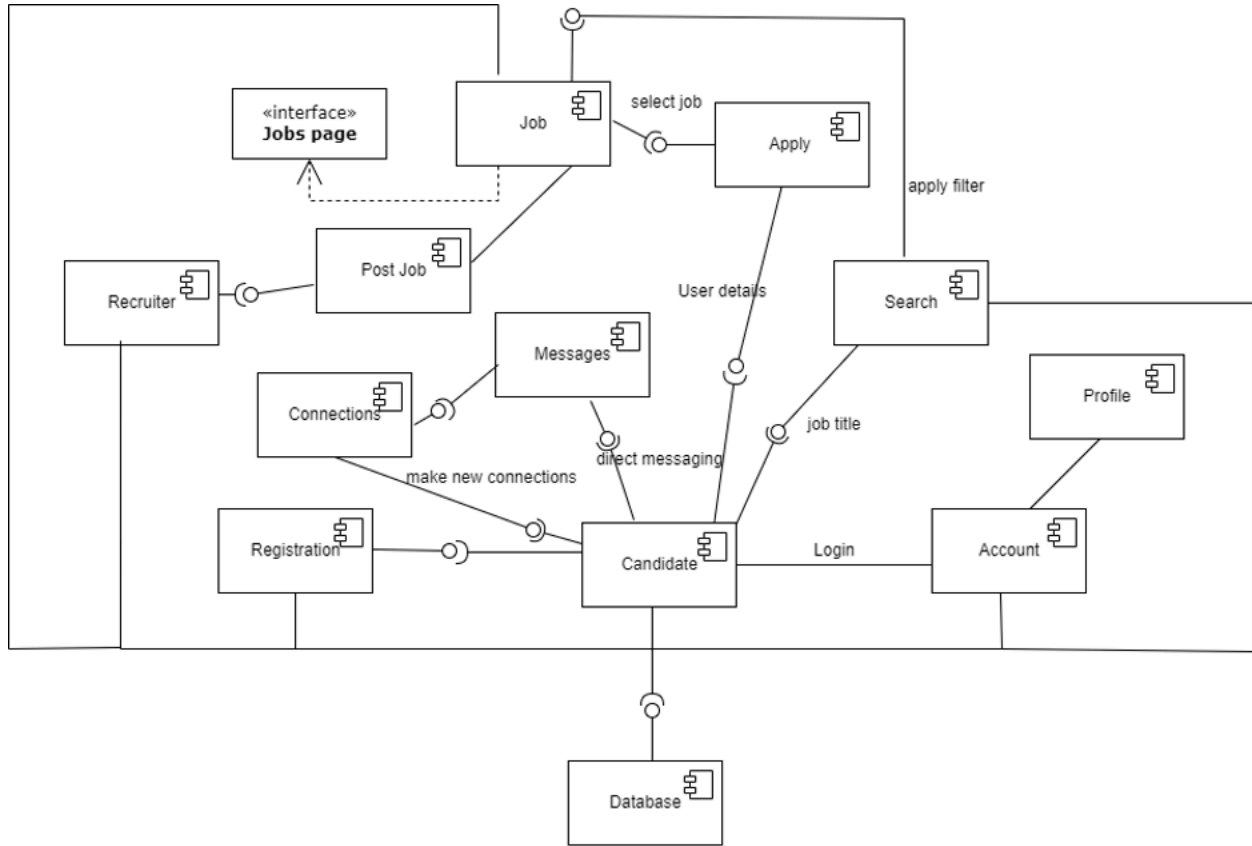
Once I select my preferred language, the entire platform should be displayed in that language, including all buttons, menus, notifications, and other text.

Acceptance Criteria:

1. Given that I am a user who prefers to use the platform in a language other than English,
When I navigate to the platform's settings,
Then I should be able to select my preferred language from a list of available languages.
2. Given that I have selected a language other than English,
When I navigate to any part of the platform,
Then all text and interface elements should be displayed in my selected language, including menus, buttons, and error messages.

Part 3: Software Architecture Document (SAD)

3.1. Component Diagram

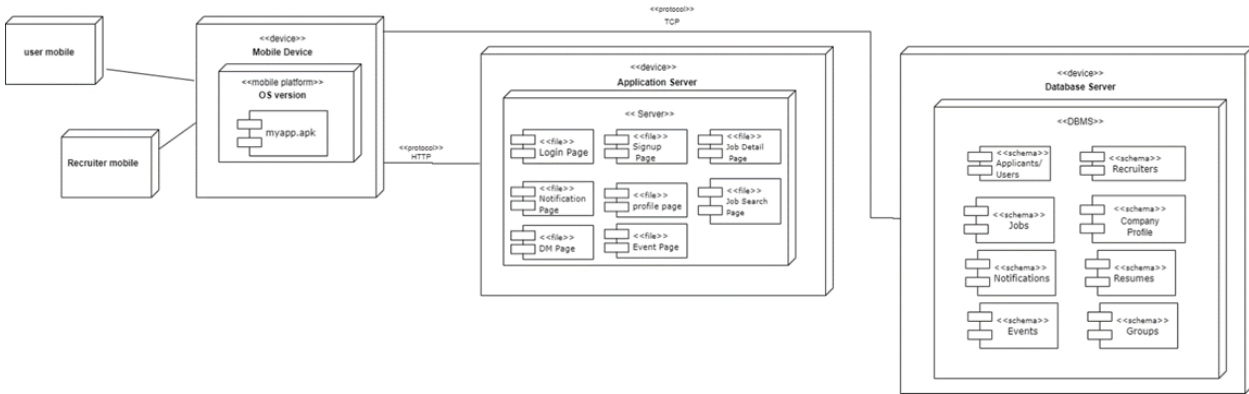


A component diagram provides a visual representation of the system's components and their dependencies. In the component diagram for Job Share, the following components have been identified:

Account	This component manages user accounts, including authentication and authorization to access different parts of the system.
Applicant	This component represents the functionality related to the application user role, such as the ability to search and apply for job openings, view connections, and exchange messages with recruiters.
Message	This component manages the messaging system within the job share application, allowing users to communicate with each other via direct messaging.
Recruiter	this component represents the functionality related to the recruiter user role, such as the ability to post job openings, view applicant profiles and

	job applications, and exchange messages with applicants.
Registration	This component handles the user registration process, allowing users to sign up and create a new account with Jobshare.
Profile	This component manages user profiles, allowing users to view and edit their personal and professional information, as well as upload a profile picture.
Post a job	This component enables recruiters to post job openings, including job titles, descriptions, qualifications, and application instructions.
Apply	This component enables applicants to apply for job openings, including uploading a resume, cover letter, and any additional application materials.
Job	This component represents the job openings posted by recruiters, including information such as job titles, descriptions, qualifications, and application instructions.
Connection	This component manages the connection system within the job share application, allowing users to connect with each other and view their connections. This component also includes the ability to accept or reject connection requests.

3.2. Deployment Diagram



3.2.1. OS Server

The app request will go to the OS (IOS, Android) server and will be handled by it

3.2.2. Application Server

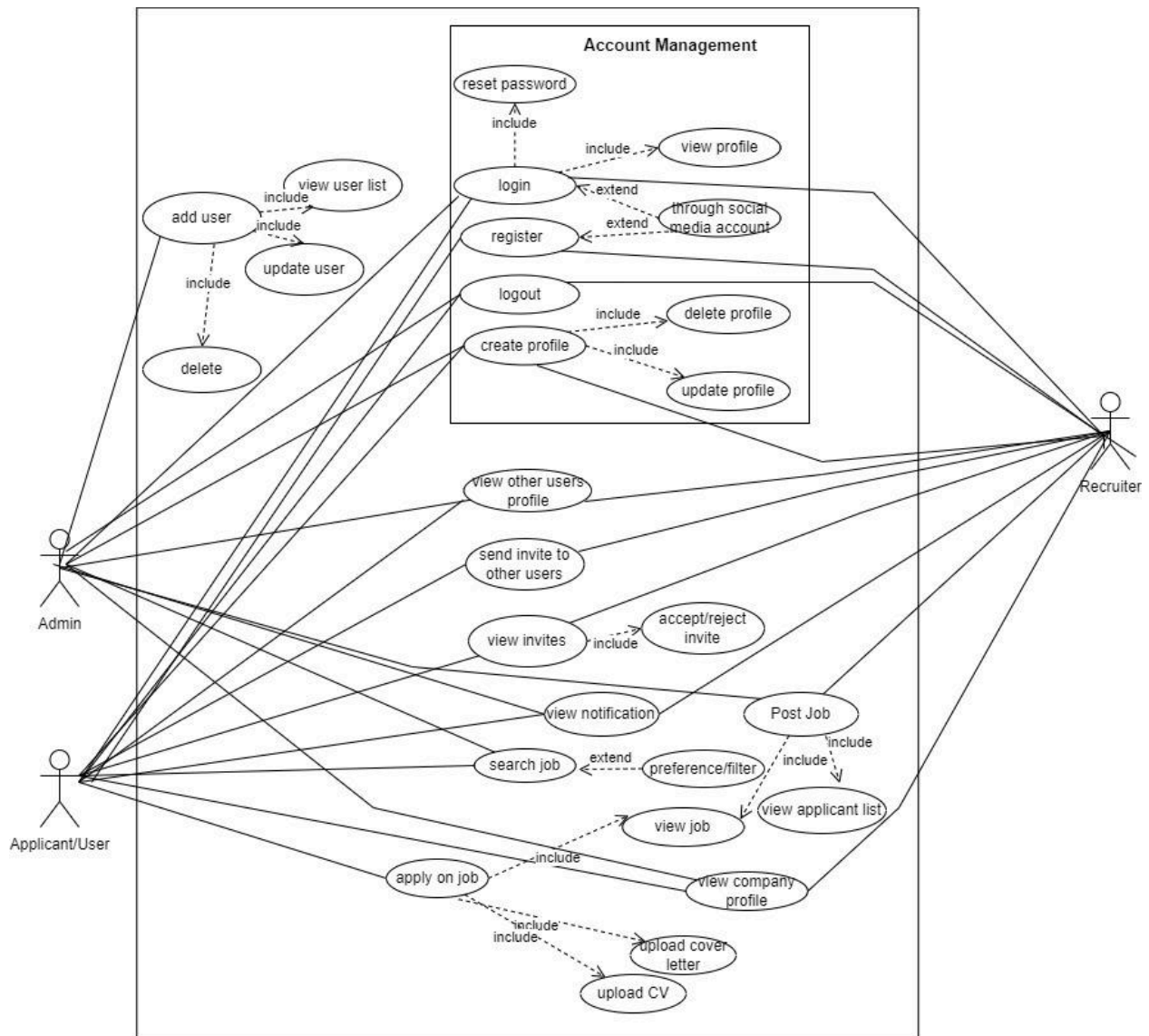
Users shall be able to apply for job opportunities through both a quick apply feature and by manually filling out the application form. Users shall have the ability to browse and search for job openings based on their preferred location and job category. The system shall also facilitate

the ability for users to send and receive connection requests, as well as the ability to send direct messages to other users. Additionally, recruiters shall have the capability to post job listings, update job information and deadlines, view resumes of job applicants, and manage their company profiles. All these requests will be handled by the application server.

3.2.3. Database Server

When each user submits a request for retrieval the system fetches it from the respective database table. The submission request is also added and saved in the respective database tables. All the data information of the Job share is saved in the database server.

3.3. Use Case Diagram



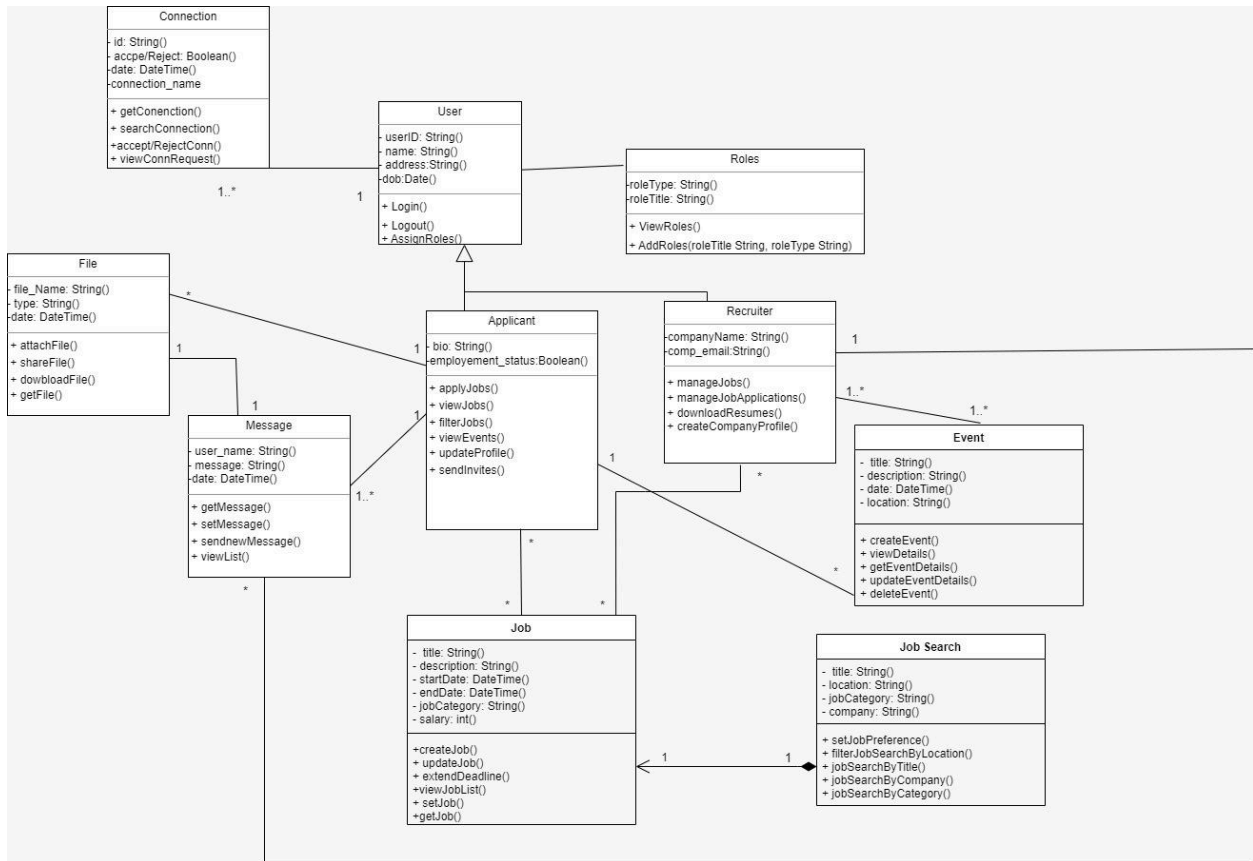
A use case diagram is a visual representation of the interactions between users (known as actors) and a system. It shows the actions or tasks that the system allows each actor to perform. A use case diagram is a way to describe and model the behaviour of a system from a user's point of view.

In the context of Job Share, the use case diagram for the recruiter and applicant can be designed as follows:

1. Applicant Use Case The applicant is a user who wants to search for a job, apply for a job, and manage their profile. The use cases for the applicant can include
 - **Search for a job:** The applicant can search for a job by specifying the job title, location, and other search criteria.
 - **Apply for a job:** The applicant can apply for a job by uploading their resume and cover letter and providing other required information.
 - **Manage profile:** The applicant can manage their profile by adding or updating their personal information, education, work experience, and skills.
 - **Send Invites:** The applicant can send connection requests to the other users as well as can view their connection requests from their dashboard and can accept or reject a request
 - **Login:** This feature allows users to access their account by entering their credentials such as email/username and password.
 - **Logout:** This feature allows users to securely log out of their account, terminating their session and preventing unauthorized access to their account. The logout process involves clearing session data, deleting cookies, and redirecting the user to the login page.
 - **Register:** This feature allows new users to create an account on the platform. The registration process usually involves filling out a registration form with basic user information such as name, email, and password.
2. Recruiter Use Case: The recruiter is a user who wants to post a job, search for candidates, and manage job postings. The use cases for the recruiter can include:
 - **Login:** This feature allows users to access their account by entering their credentials such as email/username and password.
 - **Logout:** This feature allows users to securely log out of their account, terminating their session and preventing unauthorized access to their account. The logout process involves clearing session data, deleting cookies, and redirecting the user to the login page.
 - **Register:** This feature allows new users to create an account on the platform. The registration process usually involves filling out a registration form with basic user information such as name, email, and password.
 - **Post a job:** The recruiter can post a job by providing details about the job, such as the job title, description, requirements, and application instructions.
 - **Manage job postings:** The recruiter can manage job postings by editing or deleting them, and by viewing information about the number of applicants and their qualifications.

In summary, the use case diagram for Job Share can help in understanding the functionality and features of the system from the perspective of the applicant and the recruiter. It can also serve as a useful tool for communication and collaboration between stakeholders, including developers, designers, and users.

3.4. Class Diagram



A class diagram is a visual representation of the classes, interfaces, associations, and collaborations that make up an object-oriented system. It helps in modelling the static view of a system, which means it gives a high-level overview of the different classes and their relationships in the system. In the context of the Job Share application, a class diagram can help to understand the different classes and how they are related to each other. It can help to visualize the different components of the application and how they interact with each other.

In summary, a class diagram can be a useful tool in the design, development, and testing of the Job Share application, and can help to ensure that the system is well-structured and easy to maintain.

Given below are the main classes of the job share explanation:

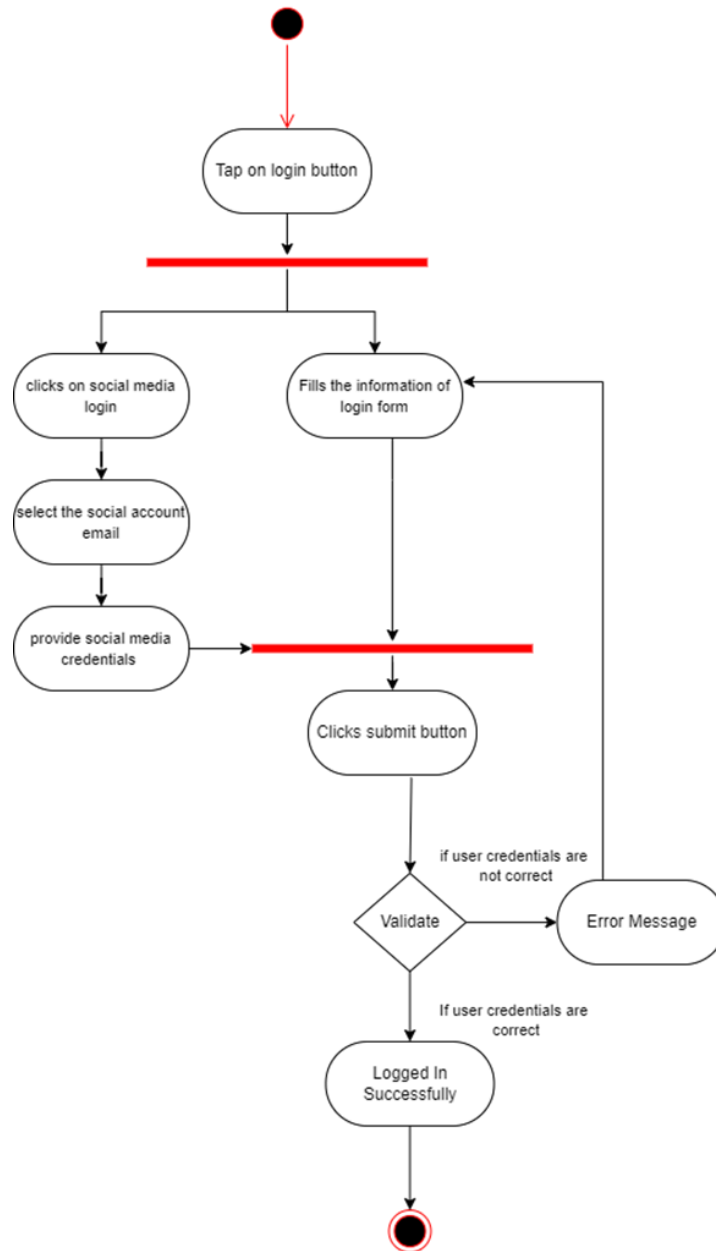
User	Represents the users of the system. Contains information about each user such as id, address, dob etc.
Role	Represents the role of a user, either Applicant or Recruiter. Contains information about the role name, description, and the user associated with it.
Applicant	Represents a user who is an applicant. Inherits from the User class.

Recruiter	Represents a user who is a recruiter. Inherits from the User class.
Job	Represents a job posting. Contains information such as the job title, description, and the recruiter who posted it.
SearchJob	Represents the search criteria for jobs. Contains information such as the query, location, category, and minimum salary.
PostJob	Represents the act of posting a job. Contains information such as the job being posted, the post date, and the expiration date.
Connection	Represents the connection between two users. Contains information such as the sender, receiver, and status (e.g. pending, accepted, rejected).
Message	Represents a message sent between two users. Contains information such as the sender, receiver, message content, and timestamp.
FileSharing	Represents the files that can be shared between users. The File class should contain attributes such as name, size, type, and location.

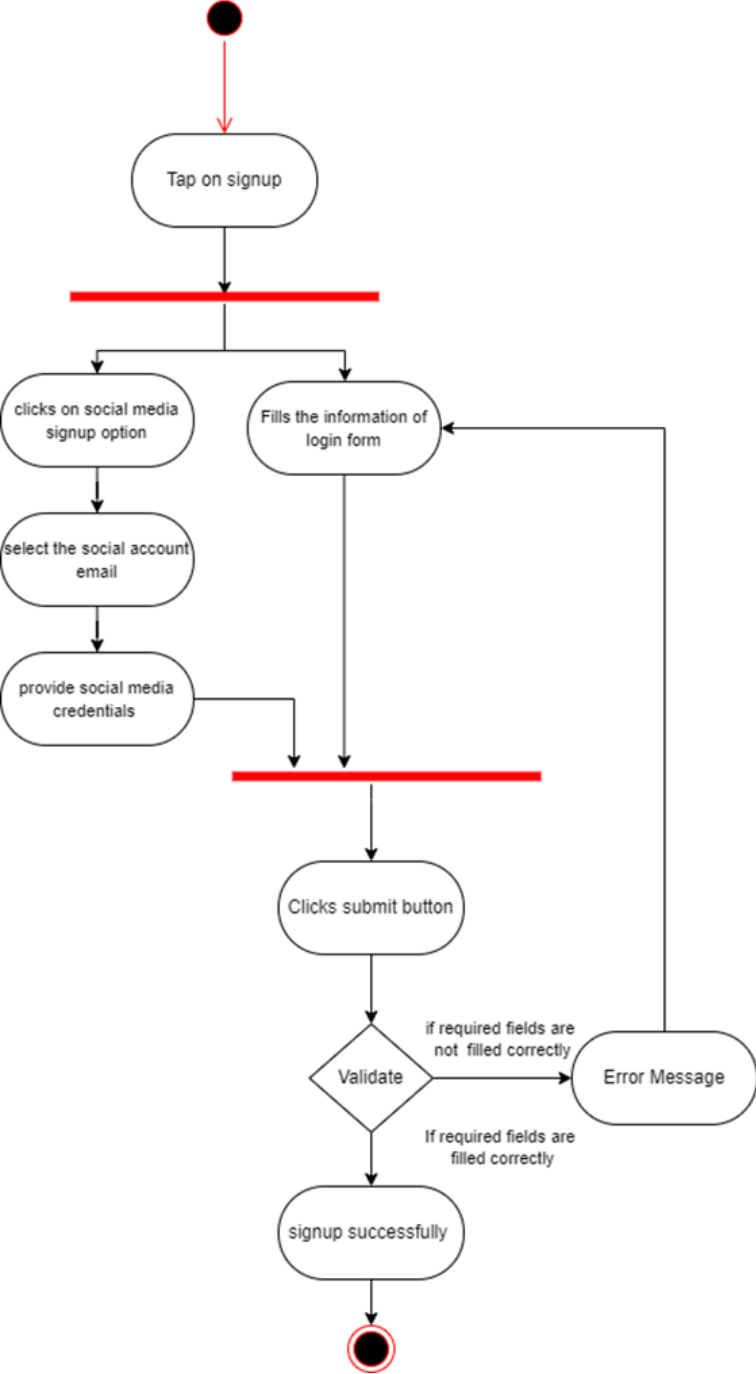
3.5. Activity Diagrams

Given below are the activity diagram of the main features of the job share application:

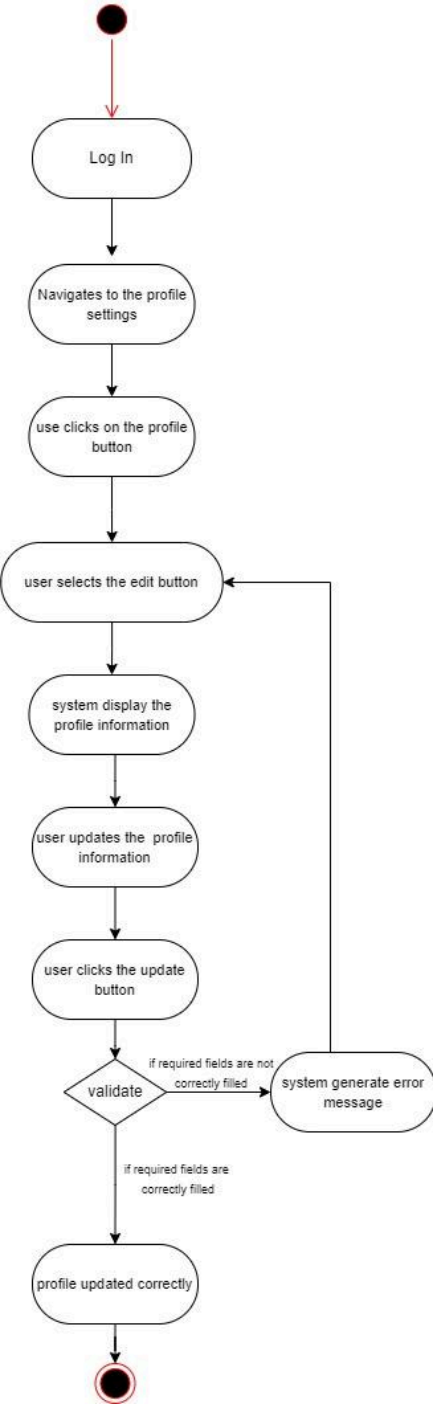
3.5.1. Login Activity Diagram



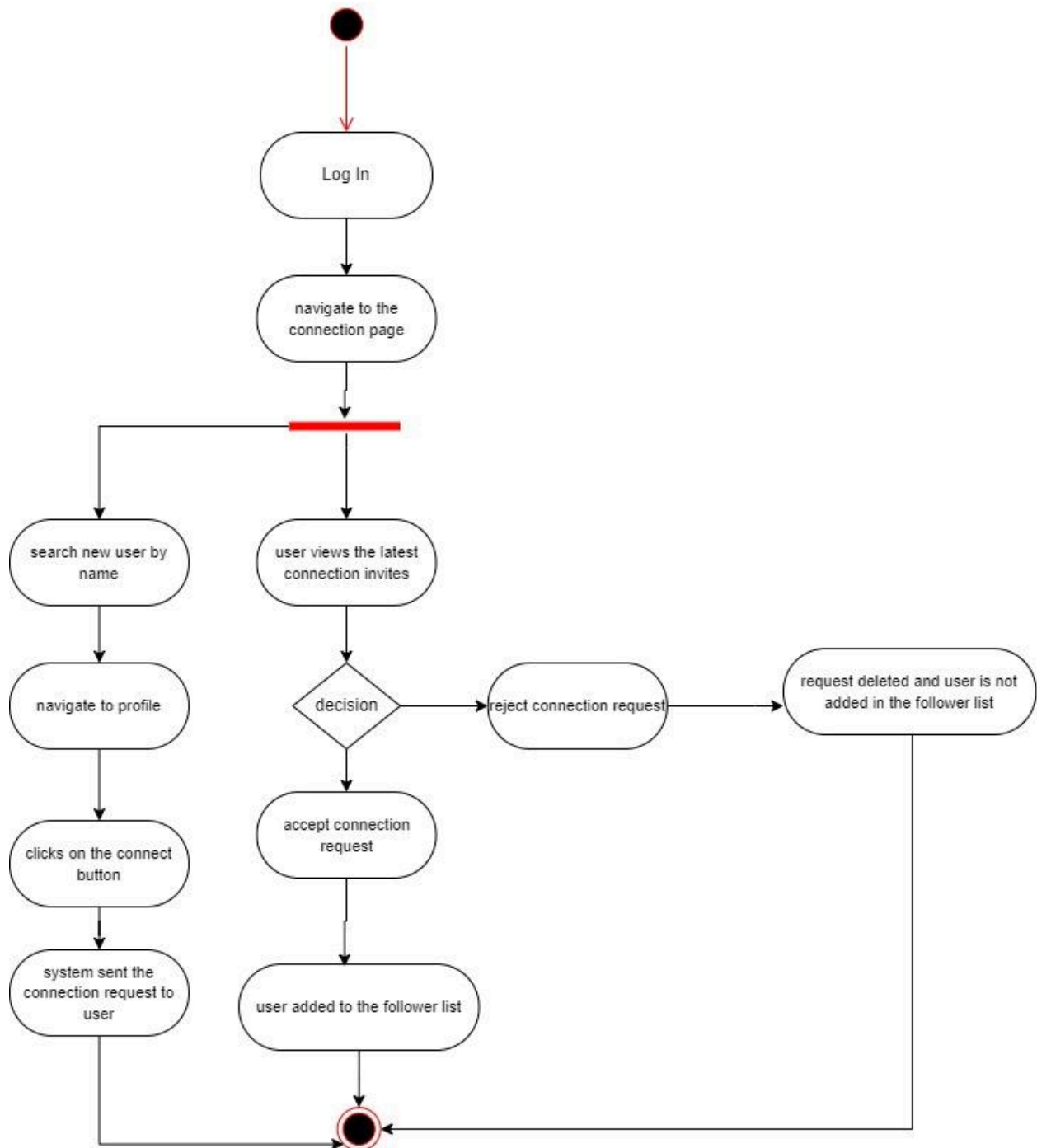
3.5.2. Signup



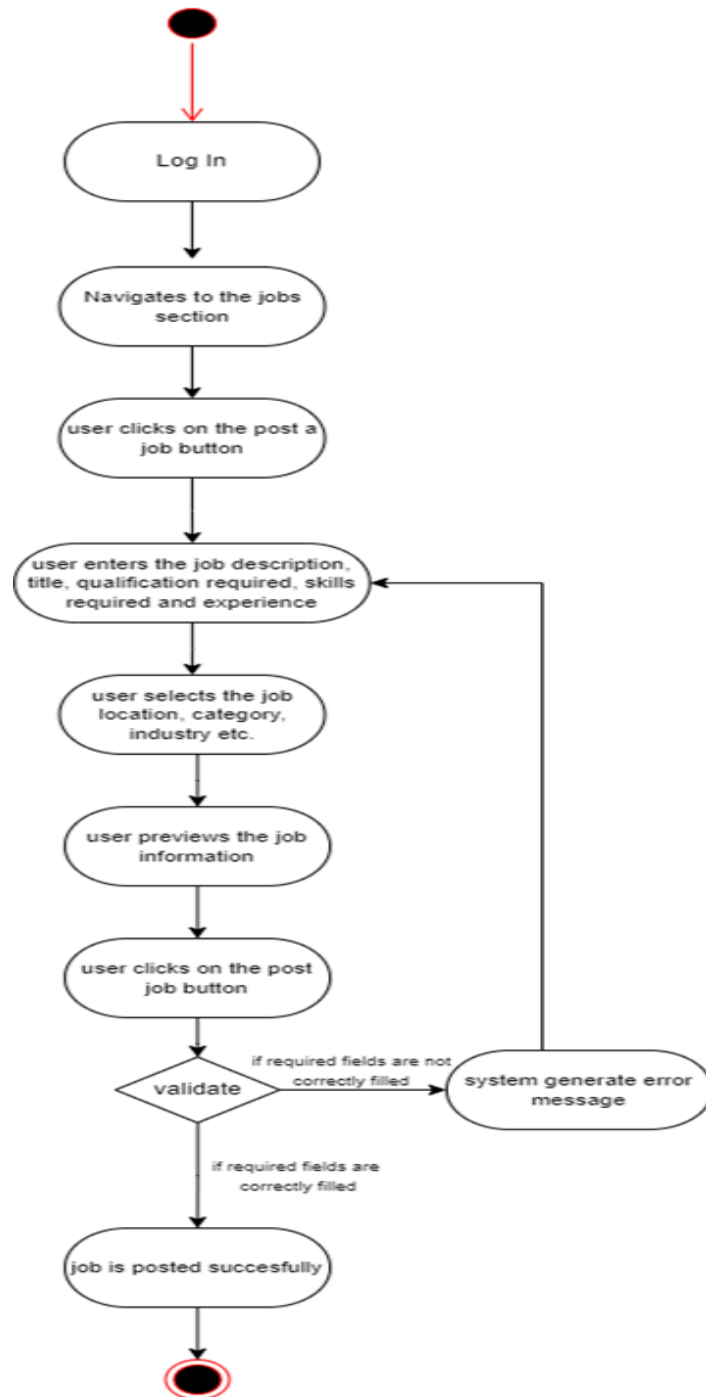
3.5.3. User Profile



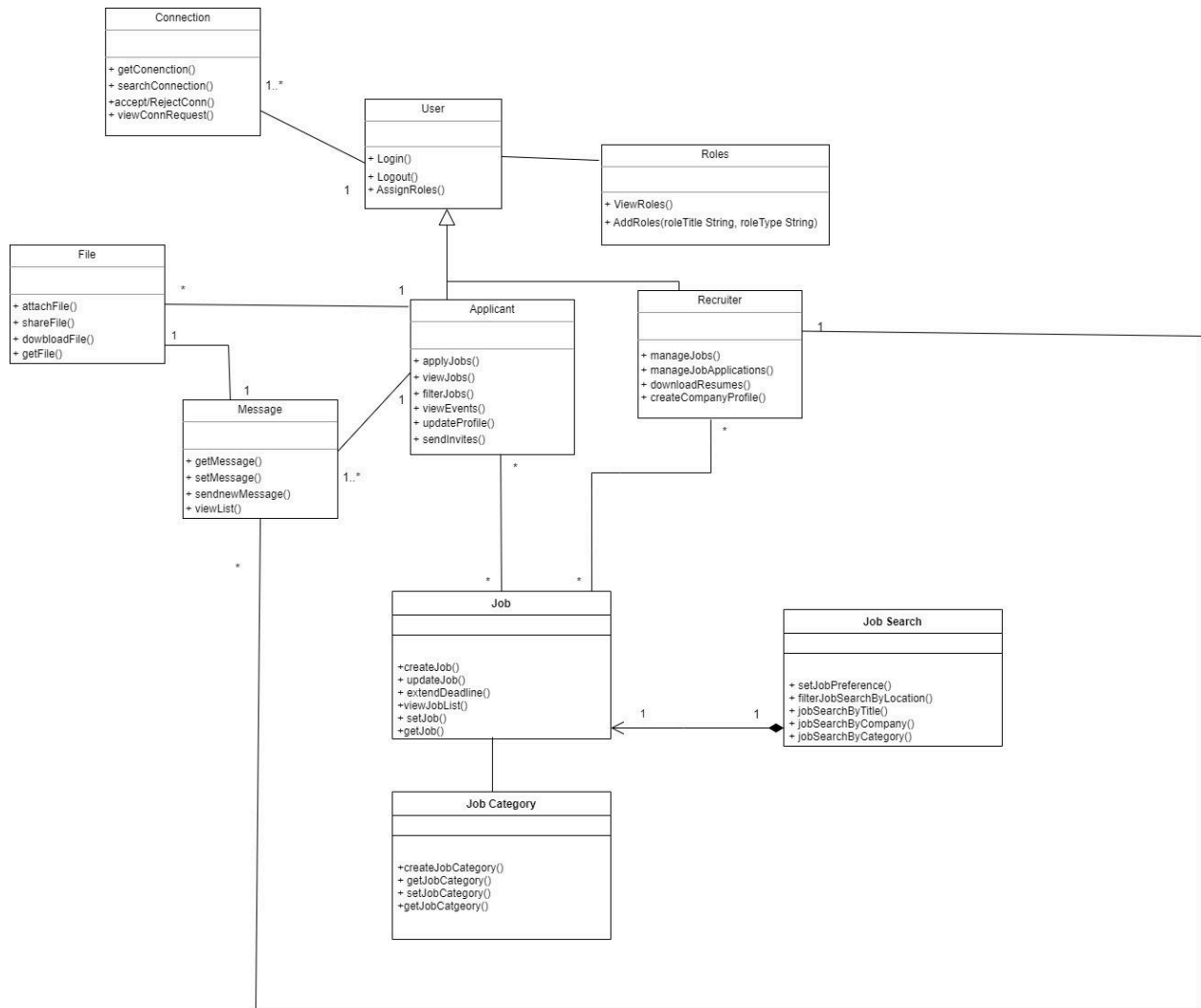
3.5.4. User connection



3.5.5. Post Job



3.6. Domain model



Part 4: Risk Assessment and Risk Management Plan (RMP)

A risk assessment and management plan are documents that identify potential risks and hazards that may impact a software project, and outlines strategies for mitigating or avoiding those risks. The purpose of the plan is to ensure that the project is completed on time, within budget, and with the desired level of quality.

Their benefits are the following:

- Identifying potential problems early to take appropriate measures to mitigate them
- Prioritizing risks based on their likelihood and potential impacts, makes the team focus their effort on the most important issues
- Enhance project performance by reducing the likelihood of delays and cost overruns

The project team identified the risks associated with the project through brainstorming sessions where the team members shared their knowledge and experiences and discussed potential risks. Additionally, the team conducted research to identify the most common social media threats and the types of risks to which the project was most exposed.

The risks identified by the team were analyzed and prioritized based on their likelihood and potential impact. The team created a risk management plan which included strategies to mitigate or avoid the identified risks, and a monitoring and reporting system to track the progress of the risk management activities. This comprehensive approach helped the team to focus on the most important risks and increase the chances of project success.

Risk ID	Risk Type and Description	Risk Score	Resolved in Sprint	Strategy and Effectiveness
1	<p>Technical Risk: Data Leaks It is a risk related to user privacy that refers to the potential unauthorized access or breaches of sensitive user information, such as personal and academic qualifications, which can lead to data leaks and damage the project's reputation.</p>	High	Unresolved	<p>Mitigate We should:</p> <ul style="list-style-type: none"> - Implement a robust backup and recovery process to minimize data loss - Regularly perform system audits and updates to ensure platform availability - Establish a disaster recovery plan to minimize downtime

2	<p><u>Technical Risk: User Security</u> It is a risk related to a user being a victim of harassment, cyberbullying, and other illegal activities such as identity theft. The risk is when the users' requests during such events are not appropriately handled.</p>	Medium	Unresolved	<p><u>Mitigate</u> We should:</p> <ul style="list-style-type: none"> - Implement 2-factor authentication systems - Invest in employee training on ho how to handle users' requests - Set a 24/7 customer service team that is responsible for the requests - Implement a response plan since the response time is a key factor in the amount of this risk impact
3	<p><u>Technical Risk: Malware</u> It is a risk related to malicious software such as viruses or trojans, that can be spread through social media links and infect a user's device.</p>	High	Unresolved	<p><u>Avoid</u> Implementation of a tool that automatically detects suspected links but according to the experience level of the team, this would be hard to realize.</p> <p><u>Mitigate</u> We should:</p> <ul style="list-style-type: none"> - Implement reCAPTCHA verification tool to detect humans from robots.
4	<p><u>Capacity Risk: Scalability Issues</u> It is a risk related to the application not being able to handle the expected number of users and becoming slow or unresponsive</p>	High	Resolved	<p><u>Mitigate</u> We should:</p> <ul style="list-style-type: none"> - Implement load testing and performance monitoring - Use scalable infrastructure and cloud-based solutions - Have a plan for scaling up quickly in response to demand spikes
5	<p><u>External Risk: Legal Risks</u> It is a risk related to the app complying with various laws and regulations such as data protection laws. Non-compliance could lead to fines or legal action.</p>	Medium /Low	Unresolved	<p><u>Mitigate</u> We should:</p> <ul style="list-style-type: none"> - Ensure compliance with relevant laws and regulations - Implement robust data protection and privacy policies

				<ul style="list-style-type: none"> - Regularly audit these policies to ensure compliance
6	<p><u>Management Risk: Poor stakeholder management</u> If there is poor stakeholder management, it could lead to miscommunications and delays.</p>	Medium	Resolved	<p><u>Mitigate</u></p> <ul style="list-style-type: none"> - Implement effective communication channels - Regularly hold stakeholder meetings - Use a clear project plan with milestones and deadlines
7	<p><u>Schedule Risk: Schedule</u> If a key team member leaves the project or gets sick.</p>	Medium	Resolved	<p><u>Mitigate</u></p> <ul style="list-style-type: none"> - General knowledge of team members about the projects' components status
8	<p><u>External Risk: Reputation</u> There could be a reputation risk if there is negative user feedback.</p>	Low	Resolved	<p><u>Mitigate</u></p> <ul style="list-style-type: none"> - Continuously monitor user feedback and address concerns promptly - Implement a proactive communication plan to mitigate negative press - Continuously improve the user experience
9	<p><u>Management Risk: Ineffective project management</u> This could lead to schedule delays and scope creep.</p>	Medium	Resolved	<p><u>Mitigate</u></p> <ul style="list-style-type: none"> - Implement a clear project plan with well-defined milestones and deadlines - Regularly monitor progress and costs - Use change control procedures to manage scope creep

Risk ID	Impact
1	Data Leaks can lead to damage to the project's reputation, loss of user trust and confidence, potential legal action, and financial losses.
2	User Security can lead to an increased risk of harassment, cyberbullying, and identity theft, and damage to the project's reputation if not handled appropriately.
3	Malware can lead to the spread of malicious software and potential harm to users' devices, as well as damage to the project's reputation.

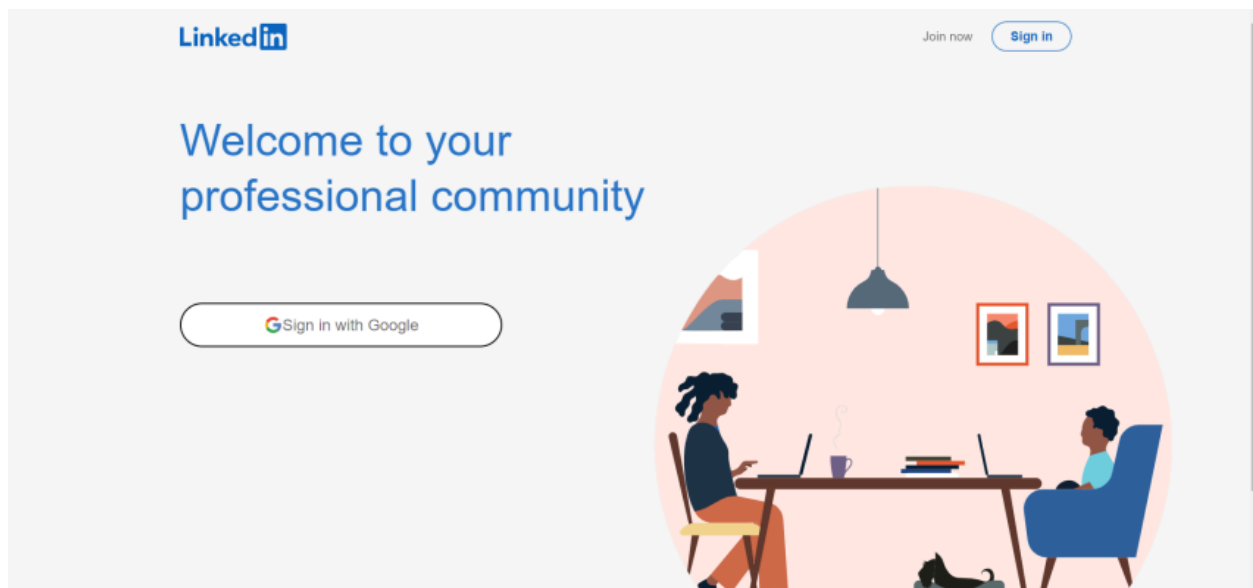
4	Scalability Issues can lead to slow or unresponsive performance, resulting in user dissatisfaction and potential loss of users.
5	Legal Risks can lead to fines or legal action for non-compliance with data protection laws and regulations, as well as damage to the project's reputation.
6	Poor stakeholder management can cause delayed launch, increased cost and negative impact on user satisfaction.
7	Loss of key resources can lead to delays in the project schedule and potential loss of key expertise, resulting in a reduced quality of the final product.
8	A negative reputation can impact user acquisition and retention. This could also cause potential legal liabilities.
9	Inefficient management can cause delayed launch, increased cost, and a negative impact on user satisfaction.

Part 5: Running Prototype

5.1. User Interfaces

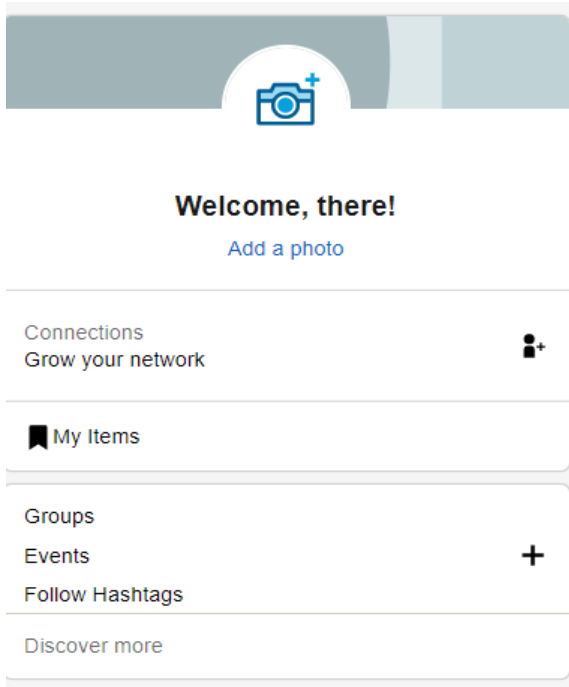
5.1.1. Signup by social login

The signup interface presents a straightforward method for first-time users to access the system. The interface provides options for account creation through social media platforms and a dedicated sign-in button link for existing users to access their existing accounts. It provides their personal information, such as email, name, password and other details, and submits the form to complete the registration process. This interface generally includes fields for the user to enter their personal information, and buttons to submit the form and/or cancel the registration process. (<http://localhost:3000>)

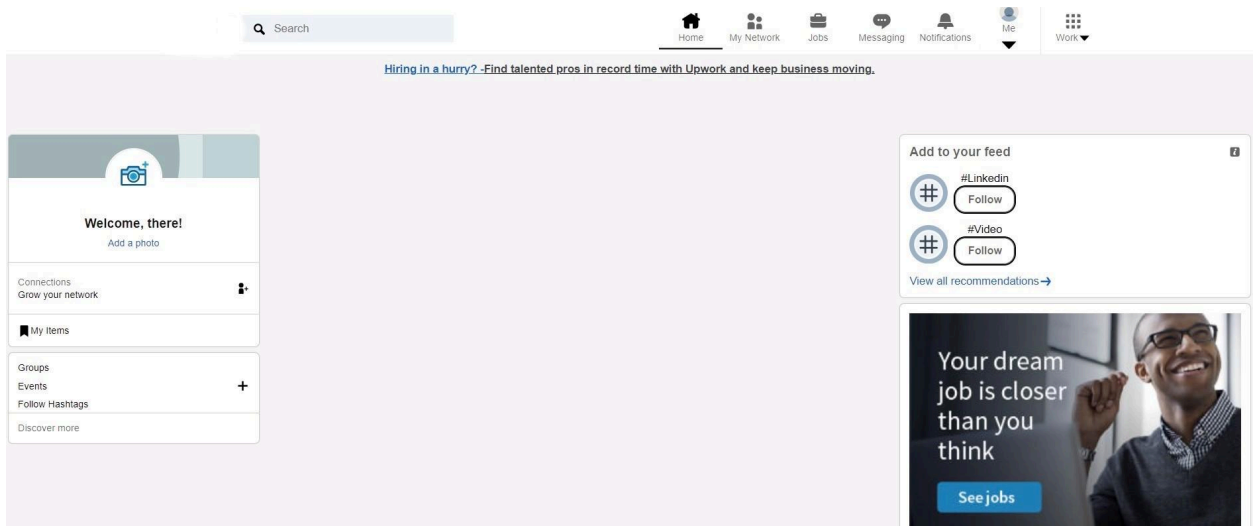


5.2. User profile

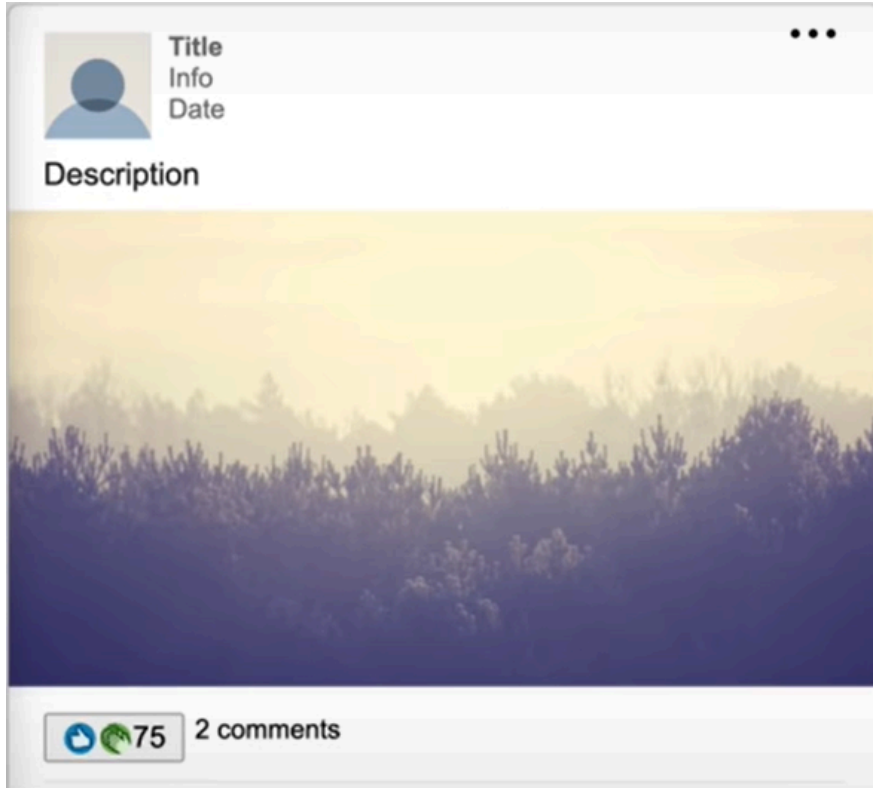
The user profile interface displays a user's professional information and personal details, such as their name, job title, education, skills, and experience. It also includes sections for users to upload their resumes, connect with other users, and showcase their professional portfolios. The user profile interface also includes options for users to edit their profiles, manage their privacy settings, and view their profiles. It also includes sections for users to share their recent professional experience. The user profile interface is designed to make it easy for users to showcase their professional identity, connect with others in their industry and market themselves to potential employers.



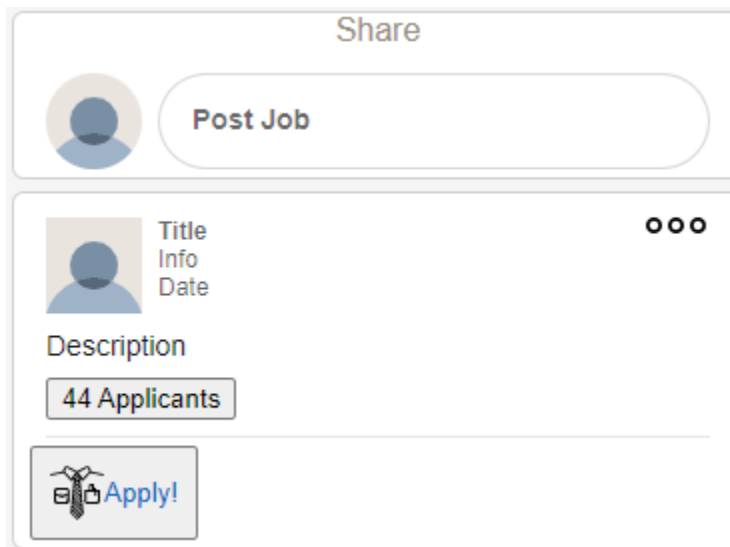
This is the template of a user's profile. The different sections will be added and editable.



This is the template of a user view of the home page




This is the template of a general post in the timeline






This is the template of a job post in the timeline

Create a post ✕


 **Name**

What do you want to talk about?

Select an image to share

This is the template of a post creation view

 Login [Sign Up](#)

This is the template of login by email/password

Part 6: Testing

Test cases and coverage for the Job share application should include testing for the following areas of the main features.

6.1. User Registration and Login Test Cases

- Verify that users are able to register for an account and log in to the system successfully with validated email and information.
- Validate the user's login credentials during the sign-in process, the system shall generate an error message in the case provided email or password is incorrect
- Required input validations on the fields shall be applied, that is the required field's validation, email and password format validation shall be applied and tested. In case a user left the required field empty the system shall generate the error message.
- Verify that users are able to recover their password by requesting a reset link to be sent to their email address.
- Verify that users are able to log in through social media accounts such as Facebook, Google etc.
- Verify that the system maintains the user's session across different pages and that the user is logged out after a certain period of inactivity.

6.2. User Profile Test cases

Profile creation and editing

- Verify that users are able to create and edit their profiles successfully and that all the information is displayed correctly.

Profile completeness

- Verify and validate that users are able to complete all the necessary fields in their profile and that the profile is optimized for search.

Profile image upload

- Verify and validate that users are able to upload their profile image and that it is displayed correctly.

Connections

- Verify that users are able to connect with other users, accept or reject connection requests, and manage their connections.

Posts and shares

- Verify that users are able to share posts, articles, and other professional content on their profile and that it is displayed correctly.

Resume upload

- Verify that users are able to upload their resume and that it is accessible to the intended audience.

Profile search

- Verify that users are able to search for other users by their name, location, job title, skills, and other information.

Profile privacy settings

- Verify that users are able to manage their privacy settings and that the profile is only visible to the intended audience.

Connections request

- Verify that users are able to send and receive connection requests to other public users
- Verify that users are able to accept or reject requests.

Job search and application

- Verify that users are able to search for job openings based on their preferred location and job category, and that
- Verify that the user is able to apply for jobs through the quick apply feature and the manual application form.

Direct messaging

- Verify that users are able to send and receive direct messages.

Recruiter functionalities

- Verify that recruiters are able to post job listings, update job information and deadlines, view resumes of job applicants, and manage their company profile.

Application server

- Verify that the application server is able to handle the requests made by the users and recruiters and that it is able to execute the necessary functions.

Security

- Verify that the system is able to protect users' data and prevent unauthorized access to the system.
- Verify that the private data shared in the system through files in DM is encrypted and inaccessible by anyone
- Verify user's passwords and login credentials are encrypted in the database.

Part 7: Short Sprint #2 Retrospective

7.1. Introduction

During sprint #2, we focused on implementing important features of the Job Share application. These features included creating and editing user profiles, job posting, posting on the news feeds, and following/unfollowing users. The goal of the sprint was to deliver these features within the given timeline and to ensure that they meet the client's requirements. Our team was excited about the development of the application and we were confident that we could achieve the objectives of the sprint.

7.2. What went wrong

1. Technical Issues

We faced some technical issues with the implementation of the job posting feature. The issues were related to the database schema and the implementation of the backend functionality. We had to spend a lot of time resolving these issues and this led to a delay in delivering the feature.

2. Miscommunication

There was a lack of proper communication between the team members working on different aspects of the application. This resulted in conflicts when trying to merge code and integrate different features. It was a major setback for the team, as it caused delays and increased the workload.

3. Integration Issues

Integrating different features into the application was a challenging task. We faced some issues when trying to integrate the user profile editing feature with the job posting feature. This led to additional work for the team and impacted the delivery schedule.

7.3. What went right

1. Team Collaboration

Our team collaborated well during the sprint. We communicated effectively and worked together to resolve the technical and integration issues that we faced.

2. Prioritization

We were able to prioritize our tasks well and focused on delivering the most important features first. This helped us to complete the critical aspects of the project on time.

3. Code Quality

The quality of our code improved significantly during the sprint. We put more effort into testing and ensuring that our code was of high quality. This led to fewer bugs and better overall performance of the application.

4. Strong Emphasis on UI/UX Design and Prototyping

We placed a significant emphasis on UI/UX design and prototyping in Sprint #2. This allowed us to create a user-friendly and intuitive interface for our application. Our team was able to gather feedback from users and make necessary changes to the design during the prototyping phase. This helped us create an application that meets the needs of our users and is easy to use.

7.4. Conclusion

In conclusion, sprint #2 was a learning experience for our team. We encountered some challenges, such as technical and UI issues and miscommunication, which impacted the delivery schedule. However, we were able to work together to overcome these challenges and complete the critical aspects of the project on time. We also learned the importance of effective communication and prioritization. In future sprints, we plan to apply these lessons to improve our development process and ensure the success of the project. Moreover, In Sprint #3, we plan to continue to refine our UI/UX design based on user feedback. We will be conducting usability testing to identify any areas for improvement and working closely together to ensure that the final product meets the needs of the project owner.

Part 8: Release Plan (Sprint #3 Planning)

Story ID	Title	USP	Priority	Status	Sprint #
1	Create user profile	8	High	Done	1
32	Edit profile	2	High	Done	1
23	Invite other users to join the network (Tahmid)	3	High	Done	1
24	Users can accept or reject invitations (Tahmid)	2	High	Done	1
25	Users can remove connections (Tahmid)	1	High	Done	1
5	Directly message connected users	8	Medium	To do	1
6	Allow the exchanges of files	3	Medium	To do	2
7	Moderate and review direct messages	5	Low	To do	2
8	Recruiters can add/edit job postings (Thierno)	13	High	To do	2
26	Recruiters can add/remove adverts (might delete)	5	Medium	To do	2
9	Define searching preferences	5	High	To do	3
10	Store documents (Mouhamed)	5	High	To do	3
12	Choose mandatory documents (Oussama)	3	High	To do	3
27	Apply for jobs with stored documents (Oussama)	3	High	To do	3
28	Apply for jobs with new documents	3	High	To do	3
13	Post external jobs	2	Low	To do	
29	Create groups	3	Low		

Story ID	Title	USP	Priority	Status	Sprint #
1	Create user profile	8	High	Done	1
32	Edit profile	2	High	Done	1
23	Invite other users to join the network (Tahmid)	3	High	Done	1
24	Users can accept or reject invitations (Tahmid)	2	High	Done	1
25	Users can remove connections (Tahmid)	1	High	Done	1
5	Directly message connected users	8	Medium	To do	1
6	Allow the exchanges of files	3	Medium	To do	2
7	Moderate and review direct messages	5	Low	To do	2
8	Recruiters can add/edit job postings (Thierno)	13	High	To do	2
26	Recruiters can add/remove adverts (might delete)	5	Medium	To do	2
9	Define searching preferences	5	High	To do	3
10	Store documents (Mouhamed)	5	High	To do	3
30	Join groups	3	Low		
15	View notifications	5	Medium		
16	Create a page	5	High		
18	Save items	5	Low		
19	View suggested users	8	Low		
20	Choose the language	5	Low		
Total		108			

Sprint #	Estimated days	Start Date	End Date	Total USP
1	19	Jan 9	Jan 28	24
2	21	Jan 28	Feb 18	26
3	21	Feb 18	Mar 11	13
4	21	Mar 11	Apr 1	
5	21	Apr 1	Apr 22	
Total				108

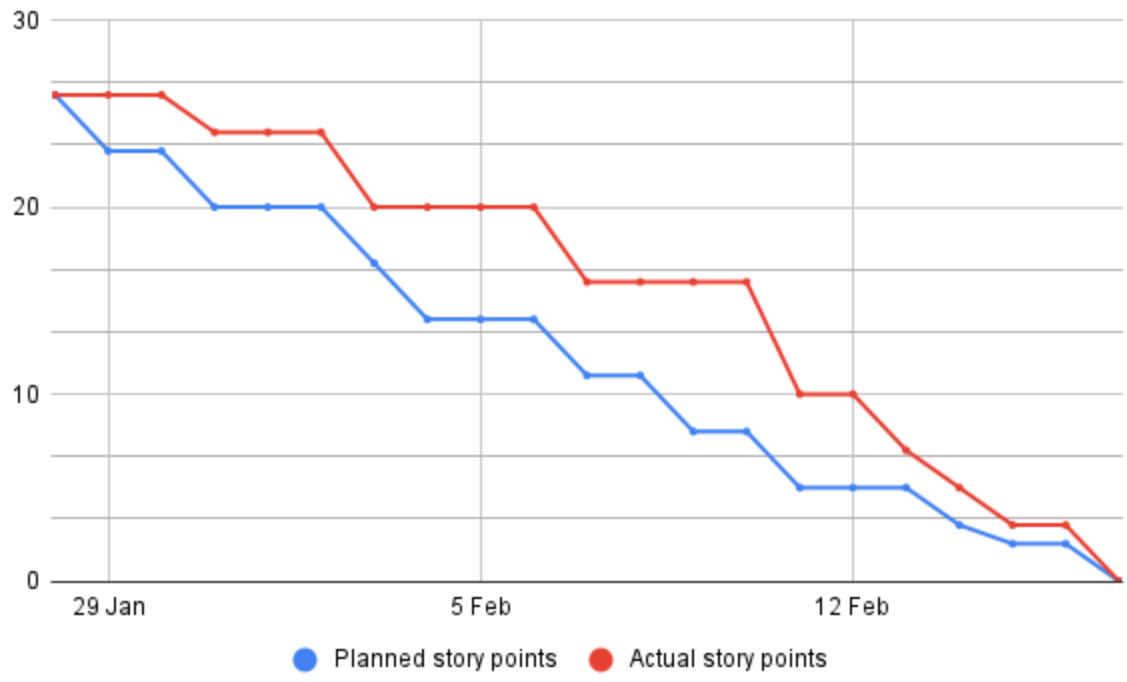
8.1. Substories

Issue ID: #9	Title: Define searching preferences		
Total Story Points: 5	Priority: High	Status:	
Substory: #1			
Story Points: 1	Priority: High	Risk: Low	
Description: Create a job preference interface for the user which has a form where they specify the types of jobs and industries they are interested in, location preferences, and education and experience level.			
Substory: #2			
Story Points: 2	Priority: High	Risk: High	
Description: Develop the backend code to use the preferences to suggest jobs accordingly			
Substory: #3			
Story Points: 2	Priority: High	Risk: Medium	
Description: Develop the backend code to use the preferences in searching for jobs			
Issue ID: #10	Title: Store documents		
Total Story Points: 5	Priority: High	Status:	

Substory: #1		
Story Points: 1	Priority: High	Risk: Low
Description: Create a documents interface where job seekers can store documents		
Substory: #2		
Story Points: 2	Priority: High	Risk: High
Description: Develop the backend code for storing the documents in the database		
Substory: #3		
Story Points: 2	Priority: Moderate	Risk: Medium
Description: Make the documents accessible for use when applying for a job		

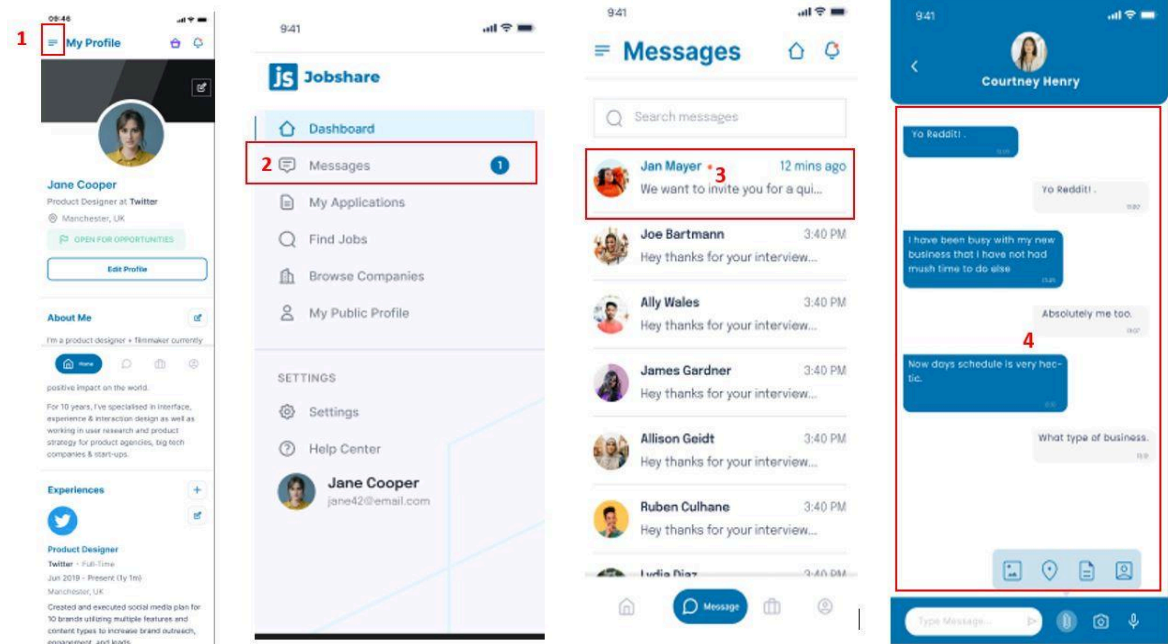
Issue ID: #12	Title: Choose mandatory documents	
Total Story Points: 3	Priority: High	Status:
Substory: #1		
Story Points: 1	Priority: High	Risk: Low
Description: Create an interface for recruiters to choose required documents		
Substory: #2		
Story Points: 2	Priority: Moderate	Risk: Medium
Description: Develop the backend code to prevent job seekers from applying without necessary documents		

8.2. Burndown Chart

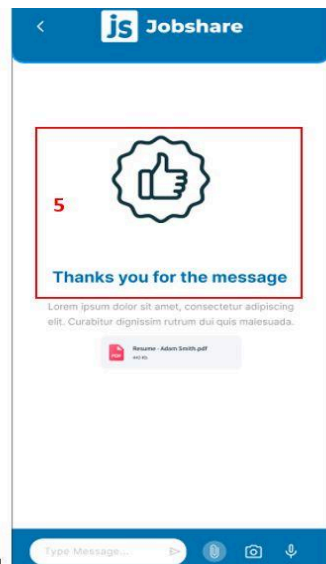
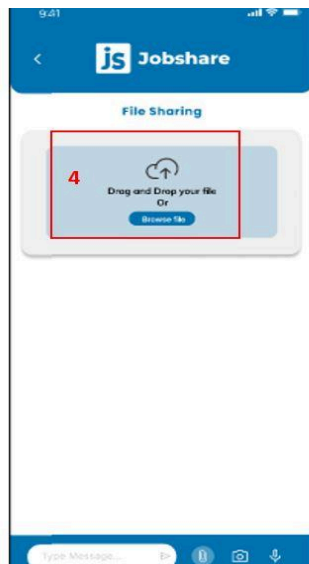
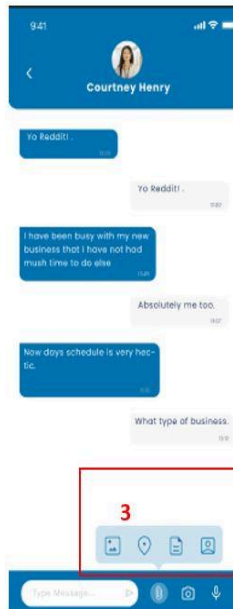
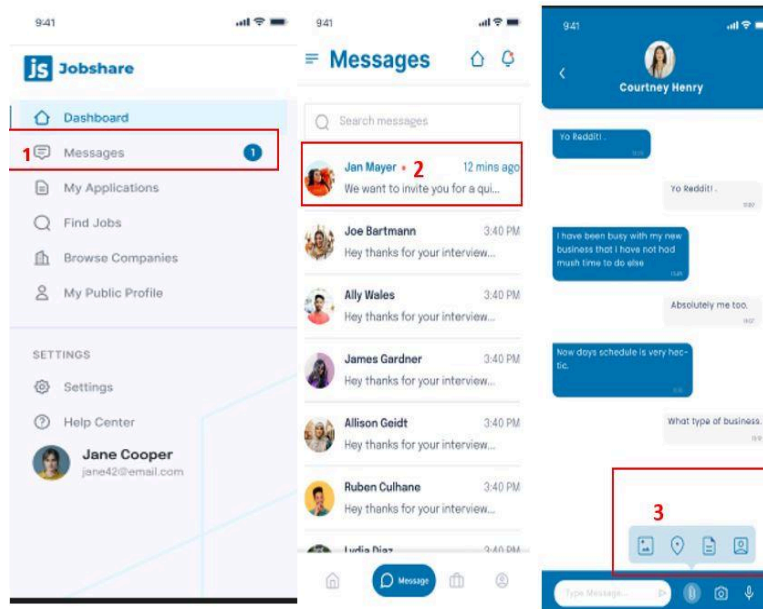


Part 9: UI Prototypes for Sprint #3 User Stories

9.1. User Stories

User Story ID: #1	Title: Direct Messaging
Description: As a user, I want to be able to send direct messages to other professionals in my industry through the Job Share app so that I can connect with them and build relationships.	
	
Steps: <ol style="list-style-type: none">1. The user access the main menu of the app by clicking on the menu icon, which is located in the top left corner of the app screen.2. From the main menu, the user clicks on the "Messages" option to access their direct message inbox. This should take them to a new screen that displays their most recent messages.3. The user can also view their direct message conversations with other users. They can click on a conversation to view the messages in that thread. They should be able to see the sender's name, profile picture, and the date and time of each message.4. User will click on the new message, select the user from the dropdown or search by name, write their message and send the direct message to one of their connections.	

User Story ID: #2	Title: File sharing
Description: As a user of the Job Share app, I want to be able to send and upload files to other users, so that I can easily share information and collaborate with my connections.	



Steps:

1. The user should be able to access the main menu of the app by clicking on the menu icon, which is typically located in the top left or right corner of the app screen.
2. From the main menu, the user should click on the "Messages" option to access their direct message inbox. This should take them to a new screen that displays their most recent messages.
3. The user should be able to view their direct message conversations with other users. The user clicks on a conversation to view the messages in that thread. They should be able to see the sender's name, profile picture, and time of each message.
4. The user click shall have the option to attach files, take images and send voice notes at the bottom.
5. After clicking on the "Attach" button or icon, the user should be prompted to choose the file or image, location etc. they want to attach from their device's file manager.

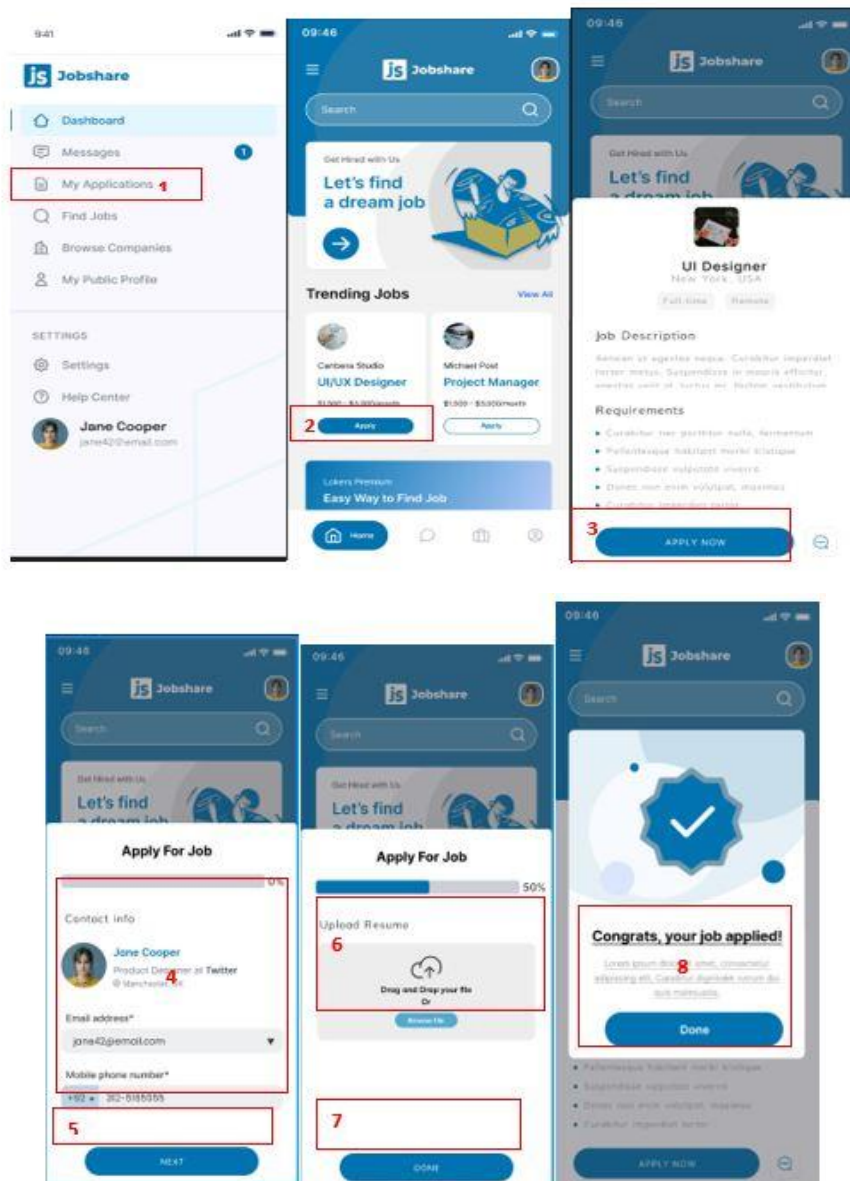
6. The user selects the file option and the system prompts them to upload or drag/drop a file.
7. Once they select the file, it will be uploaded to the app and attached to the message, a thank you message will be displayed by the system and the user can view and download it.

User Story ID: #3

Title: Applying Job

Description:

As a user of the Job Share app, I want to be able to apply for job postings, so that I can be considered for job opportunities that match my skills and experience.



Steps:

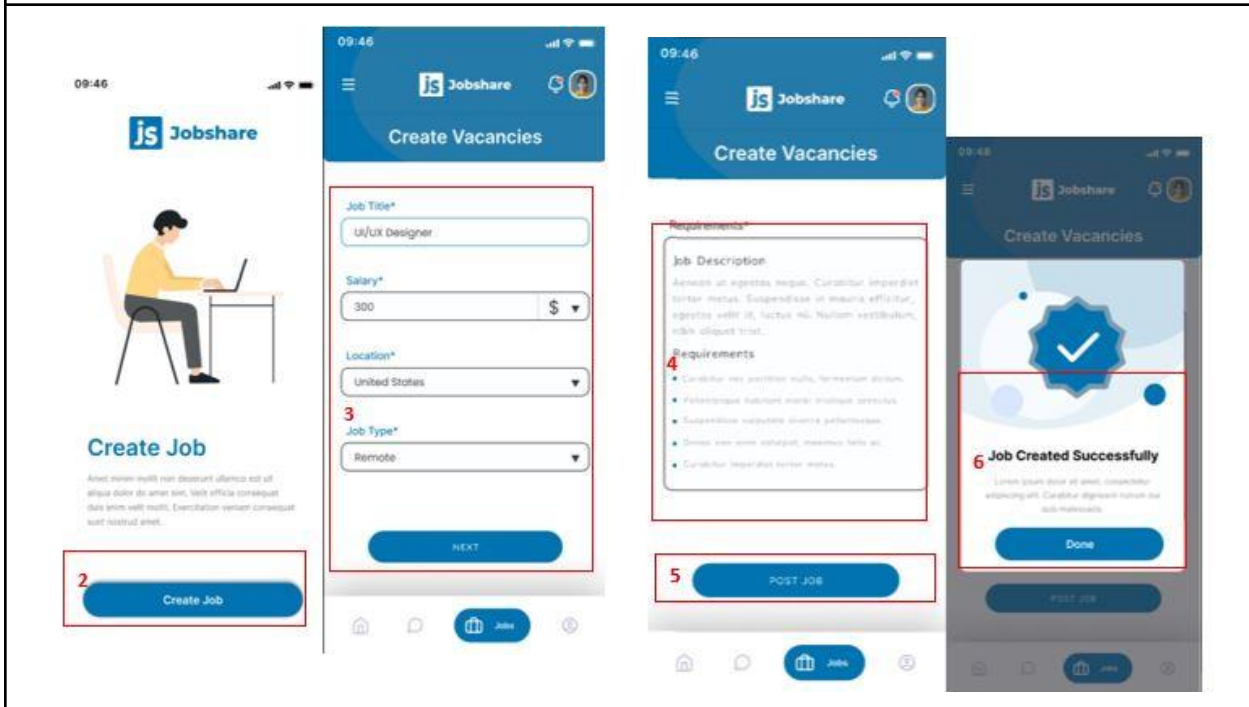
1. The user is logged into the Job Share app.
2. The user navigates to the job page from the menu and view different jobs available.
3. The user clicks on a job posting and views the details that match their skills and experience.
4. The user clicks on the "Apply" button to start the application process.
5. Fill out the job application form with personal information, like name, and phone number then click on the next button.
6. Then upload their resume and cover letter on the system.
7. Review your application and submit it.
8. The user shall then receive a confirmation that your application has been submitted.

User Story ID: #4

Title: Create Job

Description:

As a recruiter using the Job Share app, I want to be able to create and post job opportunities, so that I can attract qualified candidates and fill open positions.



Steps:

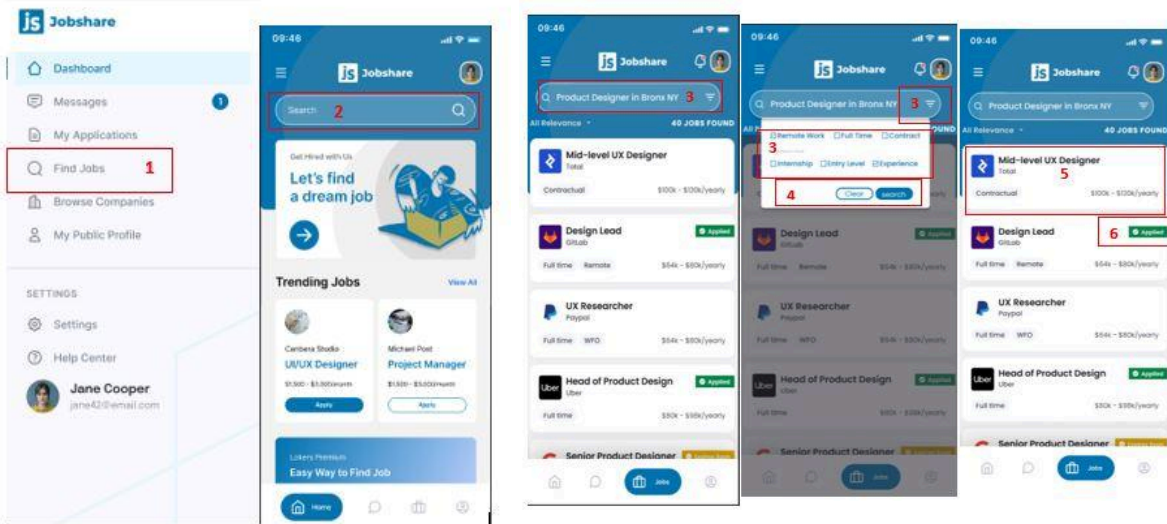
1. The user will Log in to the Job Share app as an employer or recruiter
2. Navigate to the job creation and posting feature from the app's main menu or dashboard and click on the "create job" button
3. The recruiter then fills out a form with the job details, including job title, job location, job type and salary range then click the next button
4. The user will then add the job requirements and description.
5. Then, review and publish the job posting by clicking the post button.
6. After this, the user shall receive a confirmation that the job posting has been successfully posted.

User Story ID: #5

Title: Job Search

Description:

As a user of the Job Share app, I want to be able to search for job opportunities, so that I can find open positions that match my skills and experience.



Steps:

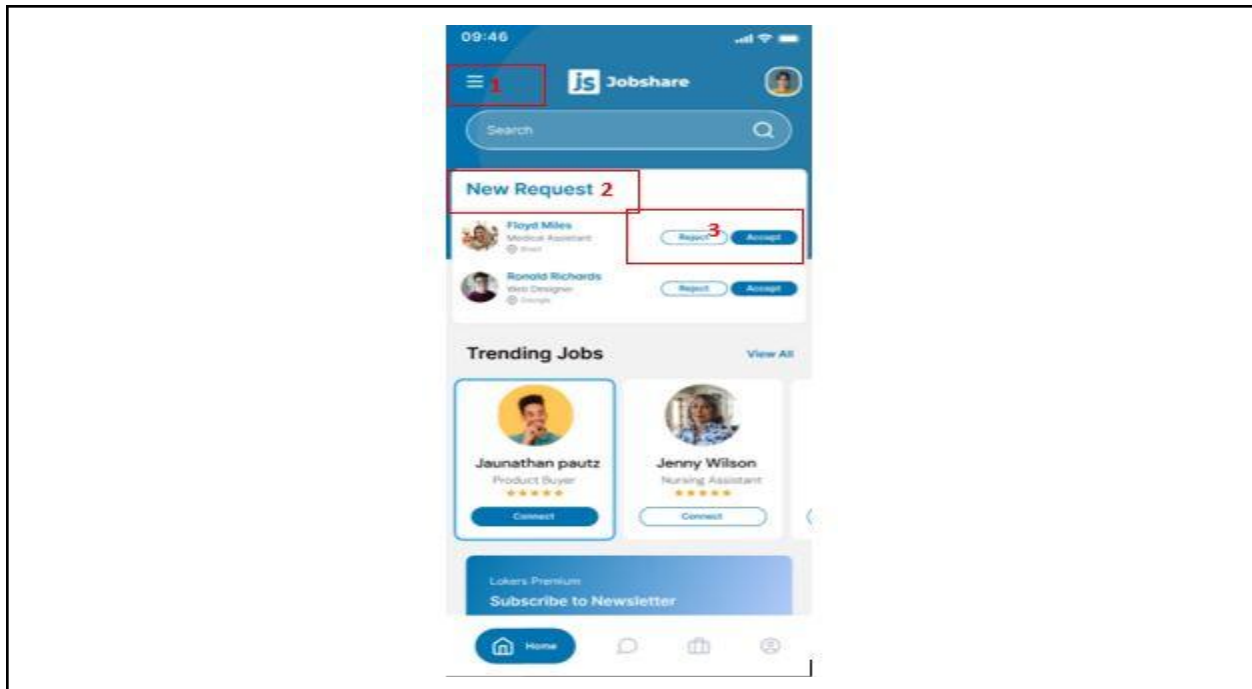
1. mUser Navigate to the job page from the app's main menu or dashboard.
2. User clicks on the search bar on the job page
3. Users enter the job title, and location and check the check boxes of the filter like full-time, remote, or other criteria to search for job postings.
4. User clicks on the search button or presses enter button.
5. System displays the job postings that match the search criteria.
6. User can see if there is a job he has already applied to or any other status with open/close.

User Story ID: #6

Title: Connections

Description:

As a user of the job share, I shall be able to reject/accept any recent connection requests by other users.



Steps

1. Users navigate to the connections page by clicking the requests button.
2. User views the recent requests.
3. User shall view the reject/accept button against each connection request.
4. User shall choose either accept or reject and make new or cancel connections.

9.2. Usability of the User Interface of Jobshare App

The user interface of the jobshare app has been developed by keeping the following points in mind to make the usability of the app appealing and user-friendly.

- The UI is designed in a way that makes it easy for users to find the information and features they need quickly and easily.
- The UI is designed in a way that is visually pleasing and easy on the eyes, with a clean and modern layout that is easy to read.
- The UI is optimized for different screen sizes and devices so that users can access jobshare on any device without difficulty.
- The UI includes clear and concise instructions and labels so that users know how to use the various features and functions of the application.
- The UI prioritizes showing the most important and relevant information first so that users can quickly find what they need.
- The UI is consistent in terms of layout and design so that users don't have to relearn how to use the platform every time they access it.

Part 10: Testing Plan for Sprint #3

10.1. Introduction

The goal of this document is to outline the testing plan for Job Share Sprint 3. This sprint includes the following features: job posting, direct messaging, file sharing, view connections, accept/reject connections, etc. The testing plan covers unit tests, integration tests, and system tests for both manual and automated testing. The team will use Github actions to implement automation for executing these tests.

10.2. Testing

10.2.1. Unit testing

Unit testing will be done to test the individual components of the application. The team will use the Jest framework and react-testing-library to write unit tests for both front-end and back-end components. The focus will be on testing each individual function, method, or module in isolation to ensure that they are working as expected. Unit tests will be written to test all the components being developed in sprint 3 along with running unit tests for features in sprints 1 and 2.

10.2.2. Integration testing

Integration testing will be done to test how different components of the application work together. The team will use the Jest framework and react-testing-library to write integration tests for both front-end and back-end components. The focus will be on testing how different modules interact with each other and how the data flows between them.

10.2.3. System testing

System testing will be done to test the application as a whole. The team will use the Cypress framework to write end-to-end tests for the application. The focus will be on testing the overall functionality of the application from a user's perspective. System tests will be written to test the following scenarios:

- valid/invalid signup
- valid/invalid login
- Editing profile with invalid value
- Editing profile with valid value
- Search for an existing user
- Search for a non-existing user
- Follow/unfollow user
- Accept/decline invitation
- Post a job
- Edit a post with valid/invalid value
- Apply to a job with stored CV
- Apply to a job with upload CV
- Receive applicant CV

Automation will be implemented using GitHub actions. The git pipeline will trigger every new commit or merge to the main branch, and the GitHub actions will be used to automate the deployment of the application to a dedicated server. This will ensure that the automated tests are run every time there is a new code change. The automation will include the following:

- Unit tests
- Integration tests
- System tests

Manual testing will also be done to test the application even though it will not be a big part of our test plan. It is still important and will be done step by step as each feature is developed. This shall include exploratory testing, usability testing, and acceptance testing. Manual testing will be done to test the following scenarios:

- valid/invalid signup
- valid/invalid login
- Editing profile with invalid value
- Editing profile with valid value
- Search for an existing user
- Search for a non-existing user
- Follow/unfollow user
- Accept/decline invitation
- Post a job
- Edit a post with valid/invalid value
- Apply to a job with stored CV
- Apply to a job with upload CV
- Receive applicant CV

Exploratory testing is an approach to testing where we will actively learn and explore our job share system while testing it. It is not based on a pre-defined test plan but rather a more spontaneous approach. The goal of this testing is to find bugs and usability issues that might have been missed by more traditional testing methods. Exploratory testing is an excellent way to test the UI/UX of Job Share. We can explore the app and try different use cases to uncover any unexpected behaviours or usability issues.

Usability testing focuses on the ease of use of the software. The goal of usability testing is to ensure that the software is easy to use and understand for its users. In Job Share, usability testing shall be done by us by creating a test plan that focuses on the different workflows, such as creating a profile, applying for a job, and sending a direct message. We can then use these workflows and give feedback on any issues or concerns they might have. The feedback can be used to improve the user experience of Job Share.

Acceptance testing is the process of ensuring that the software meets the requirements and specifications of the stakeholders. The goal of this testing is to verify that the software works as intended and meets the expectations of the users. In Job Share, acceptance testing shall be done by us by creating a set of test cases that covers all the functionalities and features of the app. We can then execute the test cases and verify that the software works as expected. Any issues found during acceptance testing can be addressed before the software is released to production.

10.3. Conclusion

The testing plan for Job Share Sprint 3 includes unit tests, integration tests, and system tests for both manual and automated testing. Automation will be implemented using Github actions, and manual testing will also be done to test the application. By following this testing plan, the team can ensure that the application is thoroughly tested and that any issues are caught and addressed before release.

Part 11: Code Management

The code management will be done with the best practices of the industry in mind, it consists of but is not limited to

1. **Quality of source code reviews**

Upon every pull request, at least 2 team members have to approve it in order to merge to the main, this will ensure a higher standard of code quality as well as a means to hold each other accountable.

2. **Correct use of design patterns**

We use the MVC pattern which is the standard for building applications of this type. It allows us to separate an application into three main groups of components: Models, Views, and Controllers.

Decoupling these elements provides a nice separation of concerns and makes the software more cohesive and easy to maintain

3. **Respect to code conventions**

- Clear variable and function naming
- Cohesive function documented
- Few coupling
- Atomicity of operation

4. **Quality of source code documentation**

Every function and variable is properly documented and code behaviour is also explained for more ambiguous sections

5. **Use of feature branches**

Each feature will be maintained in its own branch and a pull request will be reviewed before merging

6. **Bug reporting**

The entire team is keeping track of potential bugs and new bug tickets will be opened upon discovery