
Software Requirements Specification

for

TechJobHub

Your gateway to tech careers

Prepared by

Jarin Thasnin Ahmed
ID: BKH2125006F

Shaila Rahaman
ID: BBH2125007F

Makmudul Hasan Rabbi
ID: ASH2125008M

Institute of Information Technology
Noakhali Science and Technology University

09.06.2024

Table of Contents

1. Introduction.....	6
1.1 Problem Statement.....	6
1.2 Purpose	6
1.3 Project Scope	6
1.4 Glossary	7
1.5 Overview.....	7
1.6 References.....	8
2. Stakeholders and Characteristics.....	8
3. Design and Implementation Constraints	9
4. Requirement Specification	10
4.1 Functional Requirement.....	10
4.1.1 Job Search	10
4.1.2 Job Posting.....	11
4.1.3 Upload Resume	11
4.1.4 Parse Resume	11
4.1.5 Skills Matching	11
4.1.6 Job Recommendation.....	12
4.1.7 Apply Job	12
4.1.8 Assessment.....	12
4.1.9 Confidential Rating.....	12
4.1.10 Communication Channel	13
4.1.11 Job Alert & Notification	13
4.1.12 Confirmation	13
5. Requirement Engineering Process	14
5.1 Requirement Elicitation Techniques	14
5.1.1 Hold Interviews	14
5.1.2 Perform Document Analysis	14
5.1.3 Distributed Questionnaires	14
5.2 Requirement Validation	16
6. Use Case Diagram	17
7. Use Case Description	18
8. Activity Diagram	30
9. Sequence Diagram	39
10. Swim Lane Diagram:	46

Swim Lane (Login/Registration)	46
Swim Lane (Job Posting).....	47
Swim Lane (job Search)	48
Swim Lane (Upload Resume).....	49
Swim Lane (Parse Resume).....	49
Swim Lane (Skill Matching)	50
Swim Lane (Job Recommendation)	50
Swim Lane (Apply Job)	51
Swim Lane (Assessment)	51
Swim Lane (Ratings).....	52
Swim Lane (Communication Channel).....	52
Swim Lane (Job Alert & Notification)	53
Swim Lane (Confirmation)	53

List of Figure

Figure: Use-case Diagram.....	17
Figure 1: Login/Registration	30
Figure 2: Resume Upload	31
Figure 3: Job Posting.....	32
Figure 4: Job Search.....	33
Figure 5: Apply Job.....	34
Figure 6: Assessments.....	34
Figure 7: Parse Resume.....	35
Figure 8: Skill Matching	35
Figure 9: Job Recommendation	36
Figure 10: Job Alert & Notifications	36
Figure 11: Communication Channel	37
Figure 12: Confidential Rating	37
Figure 13: Confirmation	38
Figure 14: Login/Registration.....	39
Figure 15: Resume Upload	39
Figure 16: Job Posting	40
Figure 17: Job Search.....	40
Figure 18: Apply Job	41
Figure 19: Assessments.....	41
Figure 20: Parse Resume	42
Figure 21: Skill Matching	42
Figure 22: Job Recommendation	43
Figure 23: Job Alert & Notifications	43
Figure 24: Communication Channel.....	44
Figure 25: Confidential Rating	44
Figure 26: Confirmation	45
Figure 27: Login/Registration.....	46

Figure 28: Job Posting	47
Figure 29: Job Search.....	48
Figure 30: Upload Resume	49
Figure 31: Parse Resume	49
Figure 32: Skill Matching	50
Figure 33: Job Recommendation	50
Figure 34: Apply Job	51
Figure 35: Assessments.....	51
Figure 36: Confidential Rating	52
Figure 37: Communication Channel.....	52
Figure 38: Job Alert & Notifications	53
Figure 39: Confirmation	53

List of Tables

Table 1: Registration.....	18
Table 2: Log in.....	19
Table 3: Resume Upload.....	20
Table 4: Job Posting.....	21
Table 5: Job Search.....	22
Table 6: Apply Job.....	23
Table 7: Assessments	24
Table 8: Parse Resume	25
Table 9: Skill Matching	26
Table 10: Job Recommendation.....	26
Table 11: Job Alert & Notifications.....	27
Table 12: Communication Channel	28
Table 13: Confidential Rating.....	28
Table 14: Confirmation.....	29

1. Introduction

TechJobHub is an innovative online platform, designed to streamline job searching and hiring in the tech industry. It allows job seekers to upload resumes, receive personalized job matches, and prepare for interviews through tailored assessments. For recruiters, the platform offers tools to post job listings, create custom assessments, and conduct interviews seamlessly online. TechJobHub uses advanced technology to ensure accurate resume parsing and skill matching, enhancing the recruitment process for both candidates and employers. The platform fosters a collaborative community by facilitating interaction and providing resources for career growth and development. With a focus on simplicity, inclusivity, and security, TechJobHub aims to make the hiring journey smooth and successful, bringing together talented professionals and leading tech firms in a supportive and efficient digital environment.

1.1 Problem Statement

In the tech industry, both job seekers and recruiters face several problems. Job seekers often have a hard time finding jobs that match their skills and experience, and preparing for interviews can be confusing and inconsistent. Recruiters struggle to sort through many applications and find the right candidates quickly and effectively. This makes the hiring process slow and frustrating for both sides. TechJobHub aims to solve these problems by offering a platform that accurately matches job seekers with suitable jobs, helps them prepare for interviews, and makes it easier for recruiters to find and evaluate the best candidates.

1.2 Purpose

The purpose of TechJobHub is to create an efficient and user-friendly platform that bridges the gap between job seekers and recruiters in the tech industry. For job seekers, it aims to provide personalized job recommendations, easy resume uploads, and tailored interview preparation to enhance their job search experience. For recruiters, the platform simplifies posting job listings, conducting assessments, and managing interviews, making it easier to find and hire suitable candidates. By leveraging advanced technology and fostering a collaborative community, TechJobHub strives to streamline the hiring process, support career growth, and ensure a successful and satisfying experience for both job seekers and employers.

1.3 Project Scope

- ❖ **Job Posting and Search:** Enable recruiters to post job listings with detailed descriptions. Facilitate job seekers in searching and filtering job listings based on criteria like location, category, and skills.
- ❖ **Resume Uploading and Parsing:** Allow job seekers to upload resumes to their profiles. Implement resume parsing functionality to extract key information such as skills, qualifications, and experience from uploaded resumes.
- ❖ **Insightful Skill Matching:** The system analyses the resume to extract skills and experience and then suggests suitable job openings based on this information. This streamlines recruitment, saving time and effort for both candidates and recruiters.

- ❖ **Customizable Assessments:** Enable recruiters to set up customized assessments for job seekers. Assessments may cover topics like Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), or other relevant areas.
- ❖ **Communication Channel:** Establish a communication channel for job seekers to ask questions, seek clarification, and take interviews.
- ❖ **Feedback Mechanism:** Provide personalized feedback to job seekers based on their assessment performance, highlighting strengths and areas for improvement.

1.4 Glossary

This section provides definitions for all document names, acronyms, and abbreviations. The application domain's terms and concepts are defined.

GUI - Graphical User Interface

API – Application Programming Interface

SRS – Software Requirement Specification

UI – User Interface

SDLC – Software Development Life Cycle

MB – Megabytes

HTML – Hyper Text Markup Language

1.5 Overview

TechJobHub is an innovative online platform, aimed at streamlining the job search and hiring processes in the tech industry. It addresses common challenges faced by job seekers and recruiters by leveraging advanced technology to create a seamless and efficient experience.

For job seekers, TechJobHub allows resume uploads, which are parsed to extract key information like skills and experience. This data is used to provide personalized job matches, ensuring relevant opportunities. The platform also offers tailored interview preparation through custom assessments, helping job seekers showcase their skills effectively.

For recruiters, TechJobHub simplifies the hiring process by enabling detailed job postings, custom assessments, and online interviews. The advanced matching technology ensures efficient identification of suitable candidates, reducing the time and effort involved in hiring.

TechJobHub fosters a collaborative community by facilitating interaction between job seekers, recruiters, and industry professionals through networking events and forums. This community-focused approach supports career growth and development, offering valuable resources and learning opportunities.

Overall, TechJobHub aims to enhance the recruitment process, support career advancement, and ensure a successful and satisfying experience for both job seekers and employers in the tech industry. By connecting talented professionals with leading tech firms, TechJobHub creates a dynamic environment where careers can thrive.

1.6 References

IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications. IEEE Computer Society, 1998.

2. Stakeholders and Characteristics

2.1 Primary stakeholders:

2.1.1 Job Seekers: Individuals looking for job opportunities in the tech industry, including software developers, engineers, data scientists, designers, and other tech-related roles. They use TechJobHub to find relevant job listings, upload resumes, receive personalized job matches, and prepare for interviews through custom assessments.

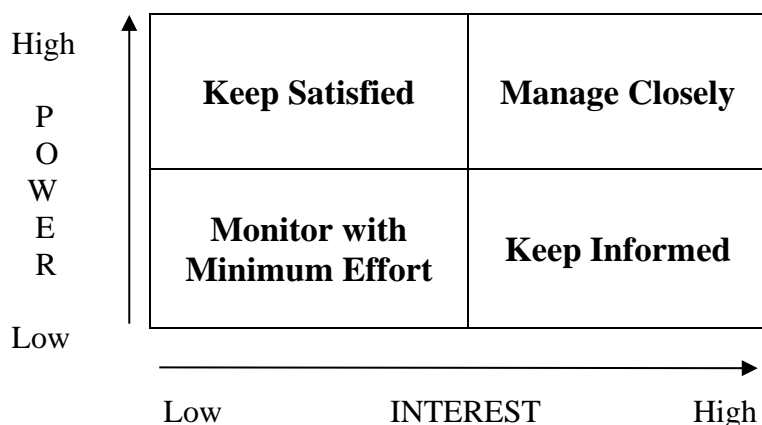
2.1.2 Recruiters: Individuals or agencies responsible for filling job vacancies in tech companies. They utilize TechJobHub to streamline the recruitment process, from posting job openings to conducting assessments and interviews, ensuring they find the best candidates for the job.

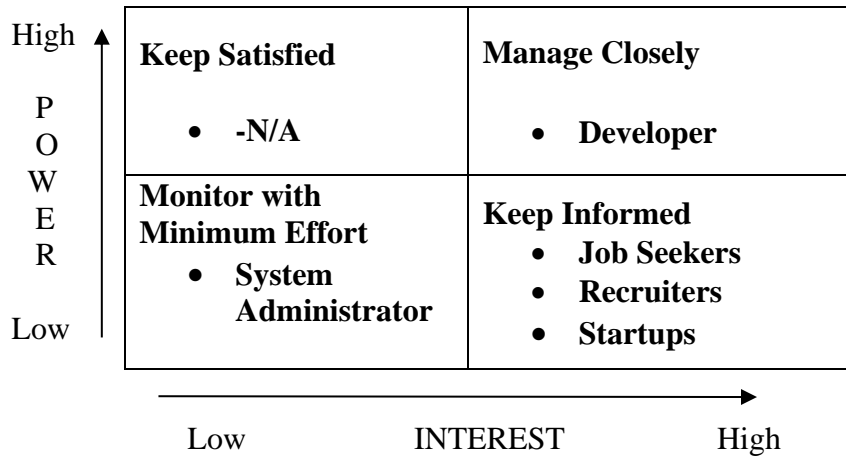
2.1.3 Startups: Employers in the technology sector seeking to hire skilled professionals for various roles within their organizations. These companies use TechJobHub to post job listings, create and administer custom assessments, conduct online interviews, and efficiently identify suitable candidates.

2.2 Secondary stakeholders:

2.2.1 System Administrator: The technical team responsible for building, maintaining, and supporting the TechJobHub platform. They develop the website, implement features, ensure security, and provide technical support to ensure the platform runs smoothly and meets user needs.

2.3 Assessment of Stakeholder Influence and Interest:





3. Design and Implementation Constraints

To ensure project success, we've identified design and implementation limitations. These constraints provide guidelines and tools for developers and testers to inspect and interact with the application's user interface (UI) elements. These constraints encompass the following:

3.1 Language:

3.1.1 HTML: HTML structures web pages and their content, defining elements such as paragraphs, headings, links, and forms.

3.1.2 CSS: CSS dictates the presentation of HTML or XML documents, ensuring consistent styling across different media.

3.1.3 JavaScript: JavaScript adds interactivity to TechJobHub, making the platform dynamic and engaging for users.

3.1.4 Python: Python powers TechJobHub's backend, managing server-side logic and data processing efficiency with its simplicity and extensive library support, ensuring scalability and rapid feature development.

3.1.5 Django: Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Developed by experienced developers, it takes care of the hassle of web development, allowing you to focus on writing your app without reinventing the wheel.

3.2 Server-Side Technology:

Server-side development encompasses database management, scripting, backend logic, and API integration.

3.2.1 Database Server: MySQL serves as the relational database management system for TechJobHub, organizing and accessing data efficiently through SQL queries.

3.2.2 Django: Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Developed by experienced developers, it takes

care of much of the hassle of web development, allowing you to focus on writing your app without needing to reinvent the wheel.

4. Requirement Specification

This section encompasses all requirements derived from the elicitation process.

4.1 Functional Requirement

Functional requirements specify what a system or software application should do, defining its features, behaviors, and interactions with users and other systems. They serve as the foundation for system design and development, ensuring that the final product meets user needs and expectations.

4.1.1 User login and register

F_R-1	User Registration and Login to the registered account.		
Description	Users should have the capability to create accounts on the platform, providing necessary information such as username, email address, and password.		
Stakeholders	Job Seekers, Recruiter, Startups	Priority	High

4.1.2 Job Search

F_R-2	Facilitate job search.		
Description	Users should possess the ability to search for jobs using various criteria such as company name, location, or category, facilitating easy access to desired jobs.		
Stakeholders	Job Seekers	Priority	High

4.1.3 Job Posting

F_R-3	Allow Job Posting		
Description	Recruiters should be able to post job openings with detailed descriptions, requirements, and other relevant information.		
Stakeholders	Recruiters, Startups	Priority	High

4.1.4 Upload Resume

F_R-4	Ensure successful resume uploading		
Description	Job seekers should be able to upload their resume to the platform.		
Stakeholders	Job seekers	Priority	High

4.1.5 Parse Resume

F_R-5	The system should parse the uploaded resume successfully		
Description	The system should parse uploaded resumes to extract skills and other relevant information.		
Stakeholders	System Administrator	Priority	High

4.1.6 Skills Matching

F_R-6	The system should match skills efficiently		
Description	The system should use matching algorithms to compare extracted skills with job requirements.		
Stakeholders	System Administrator	Priority	High

4.1.7 Job Recommendation

F_R-7	The system should recommend suitable jobs to the seekers		
Description	The system will provide personalized job recommendations to job seekers based on their extracted resume data.		
Stakeholders	System Administrator, Job seekers	Priority	High

4.1.8 Apply Job

F_R-8	Apply for Jobs		
Description	Job seekers should be able to apply for jobs directly through the platform.		
Stakeholders	Job seekers	Priority	High

4.1.9 Assessment

F_R-9	Job seekers should be able to take skill assessments		
Description	Job seekers can take these assessments to showcase their abilities, and recruiters can use the results to identify qualified candidates efficiently.		
Stakeholders	Job seekers, Startups	Priority	High

4.1.10 Confidential Rating

F_R-10	Startups can privately rate candidates		
Description	TechJobHub allows startups to rate candidates privately based on their performance and suitability. These ratings help in making informed hiring decisions while maintaining privacy and discretion. Only the startups and authorized personnel can view these ratings, ensuring confidentiality and unbiased evaluations.		
Stakeholders	Startups, Job seekers	Priority	Medium

4.1.11 Communication Channel

F_R-11	Connecting talent with opportunity seamlessly		
Description	It enables seamless interaction between job seekers and recruiters. Users can send messages, schedule interviews, and receive updates directly through the platform. This integrated communication tool facilitates efficient and timely exchanges, enhancing the hiring process.		
Stakeholders	Startups, Job seekers, Recruiters	Priority	Medium

4.1.12 Job Alert & Notification

F_R-12	Job Alerts & Notifications keep seekers updated on new job opportunities and application statuses		
Description	Job seekers will be informed about new job postings and important updates. Job seekers can set up alerts for specific job criteria and receive notifications when matching opportunities arise. Recruiters are notified about new applications and relevant candidate activities, ensuring a proactive and efficient hiring process.		
Stakeholders	Startups, Job seekers, Recruiters	Priority	High

4.1.13 Confirmation

F_R-13	The confirmation system verifies user intent before finalizing key actions.		
Description	Job seekers will receive a confirmation message from the recruiters if they get hired.		
Stakeholders	Startups, Job seekers, Recruiters	Priority	High

5. Requirement Engineering Process

Requirements Engineering (RE) determines software requirements according to customer requirements or needs. The requirements engineering process includes requirements elicitation, needs modeling, requirements analysis, requirements assurance & validation, and requirements management.

5.1 Requirement Elicitation Techniques

Requirements elicitation is the practice of researching and finding system requirements for users, and other stakeholders, also known as "requirement gathering". Requirement elicitation can be done by contacting participants directly or doing research, analysis, and testing.

5.1.1 Hold Interviews

Interviews are one-on-one or small group discussions with stakeholders to gather program criteria. These sessions help to obtain specific demands from participants and identify any conflicts or issues.

- Short description of the project
- Product details
- Dealing with customers & suppliers
- Transaction & feedback system

5.1.2 Perform Document Analysis

Existing documentation can help to see how systems are currently operating, what they are, and what I should do. Documents include written information about current programs, business processes, needs specifications, and competitor research. Review once textual analysis can help determine which performance should remain and functionality that isn't in use. This technique is particularly useful for gaining insights into how the current system operates, identifying areas for improvement, and understanding stakeholder needs without directly interacting with them.

5.1.3 Distributed Questionnaires

The questionnaire is a useful way to investigate styles, changes in attitudes and users' ideas, and user satisfaction with priorities and preferences. Our list of questions were as short as possible. The respondent may be tired or frustrated. Had a basic reason for all the questions as well as grouped the topic areas for the respondent to focus on. The main advantage of these survey responses was that they were collected in the usual way. Information was summarized by a large number of people.

Requirement Collection 01

Requirement Elicitation Techniques	Interviews, Field Observation, Surveys/Questionnaires
Collect From	Job Seekers, Recruiters, Startups
Findings	<p>User Account Management:</p> <ul style="list-style-type: none"> • User Registration: <ul style="list-style-type: none"> • Intuitive and user-friendly registration process for job seekers and recruiters. • User Login: <ul style="list-style-type: none"> • Secure and seamless login functionality for accessing the platform. • Account Management: <ul style="list-style-type: none"> • Comprehensive account management features for users to update their profiles, manage applications, and track job search progress. <p>Job Search Feature:</p> <ul style="list-style-type: none"> • User-friendly Search Feature: <ul style="list-style-type: none"> • Intuitive search functionality for job seekers to find job listings easily based on keywords, location, category, or skills. • Advanced Search Options: <ul style="list-style-type: none"> • Advanced search options such as filters by job type, company size, location, and experience level for tailored job searches. <p>Job Application Management:</p> <ul style="list-style-type: none"> • Application Submission: <ul style="list-style-type: none"> • Streamlined process for job seekers to apply for job postings. • Application Tracking: <ul style="list-style-type: none"> • Real-time tracking of application status and updates. <p>Assessment and Interview Management:</p> <ul style="list-style-type: none"> • Custom Assessments: <ul style="list-style-type: none"> • Enable recruiters to create custom assessments to evaluate job seekers' skills. • Interview Scheduling: <ul style="list-style-type: none"> • Integrated tools for scheduling and conducting interviews online. <p>Communication and Feedback:</p> <ul style="list-style-type: none"> • Communication Channels: <ul style="list-style-type: none"> • Establish a communication channel for job seekers and recruiters to interact, ask questions, and provide feedback. • Feedback Mechanism: <ul style="list-style-type: none"> • Provide personalized feedback to job seekers based on their assessment performance.

Advised Topics for Implementation	Optimize registration for simplicity, offer a comprehensive search system for efficient job discovery, and integrate interactive communication tools to enhance engagement on the TechJobHub platform. Implement advanced features for application tracking, custom assessments, and interview scheduling to streamline the hiring process.
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5.2 Requirement Validation

Requirement validation is the process of ensuring that the identified requirements accurately represent the needs and expectations of stakeholders and are feasible to implement within the system. It involves verifying that the requirements are complete, consistent, unambiguous, and aligned with the project goals and constraints

5.2.1 Review the Requirements

At the time of review, potential ambiguities, conflicts, and gaps in the requirements are identified and addressed. Additionally, stakeholders may provide feedback and suggestions for refining or enhancing the requirements. The goal of requirement review is to ensure that the finalized set of requirements forms a solid foundation for the successful development and implementation of the system, minimizing the risk of misunderstandings and costly changes later in the project lifecycle.

5.2.2 Test the Requirements

Conducting user acceptance testing (UAT) to validate that the implemented system meets the specified requirements and satisfies the stakeholders' needs. This involves executing test cases based on the requirements and obtaining feedback from end-users.

6. Use Case Diagram

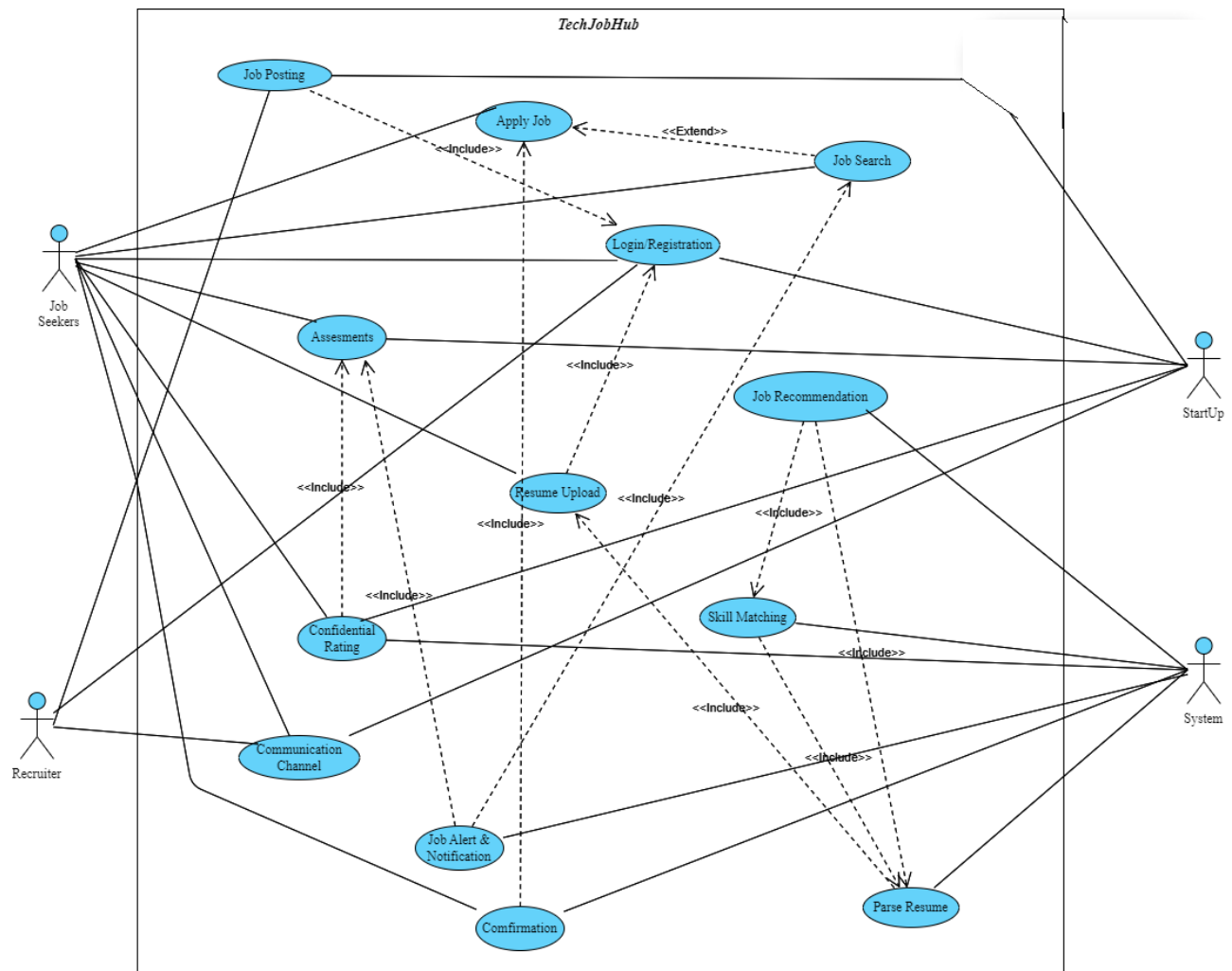


Figure 1: Use-case Diagram

7. Use Case Description

Table 1: Registration

Use Case	Registration
Definition	The user will create an account in the “TechJobHub” application if not registered.
Preconditions	N/A
Success End Condition	A user account is created.
Failed End Condition	A user account is not created.
Primary Actors: Secondary Actors:	Job Seekers Recruiters, Startups
Trigger	The “Sign in” button needs to be clicked.
Main Success Flows	The Job Seekers opens the “TechJobHub” application.
	The Job Seekers click the “Sign in” button.
	Job Seekers provide First Name, Last Name, email, Role, and Password.
	The server checks information and provides confirmation.
	An account is created.
Alternative Flows	Job Seekers does not have an account
	Job Seekers need to create one.
	Job Seekers does not log in with an existing account.
	Job Seekers needs to create another account
	The server shows that information is invalid or used before.
	Job Seekers need to change the information provided.
Quality Requirements	First Name, Last Name, Password, Email and Role must be unique.

Table 2: Log in

Use Case	Login
Definition	Job Seekers can log in to the “TechJobHub” application.
Preconditions	Job Seekers should have a registered account.
Success End Condition	Successfully login to the “TechJobHub” application.
Failed End Condition	Unable to log in.
Primary Actors: Secondary Actors:	Job Seekers Recruiters, Startups
Trigger	“Login” Button needs to be clicked.
Main Success Flows	Job Seekers opens the “TechJobHub” application.
	Job Seekers click the “Log in” button.
	Job Seekers provides a username, email, and password.
	The server checks information and provides confirmation.
	Job Seekers login is successful.
Alternative Flows	Job Seekers do not have an account.
	Job Seekers click the “Sign up” button to create an account.
Quality Requirements	Job Seekers must have an account.

Table 3: Resume Upload

Use Case	Resume Upload
Definition	Job Seekers can upload their resumes to the TechJobHub platform.
Preconditions	Job Seekers must be logged in.
Success End Condition	The resume has been successfully uploaded and parsed.
Failed End Condition	Unable to upload the resume.
Primary Actors: Secondary Actors:	Job Seekers System
Trigger	The "Upload Resume" button needs to be clicked.
Main Success Flows	Job Seekers log into the application.
	Job Seekers navigate to the resume upload section.
	Job Seekers click the "Upload Resume" button.
	Job Seekers select the resume file from their device.
	The system uploads and parses the resume.
	The resume upload is confirmed.
Alternative Flows	Job Seekers encounter file format issues.
	The system provides an error message and prompts to upload a compatible file.
Quality Requirements	Resume file must be in a supported format (e.g., PDF, DOC).

Table 4: Job Posting

Use Case	Job Posting
Definition	Startups and Recruiters can post job openings on the TechJobHub platform.
Preconditions	Startups and Recruiters must be logged in.
Success End Condition	The job is successfully posted.
Failed End Condition	Unable to post the job.
Primary Actors: Secondary Actors:	Startups, Recruiters System
Trigger	The “Post Job” button needs to be clicked.
Main Success Flows	Startups and Recruiters log into the application.
	Startups and Recruiters navigate to the job posting section.
	Startups and Recruiters click the “Post Job” button.
	Startups and Recruiters fill out the job details form.
	The system saves job postings.
	The job posting is confirmed and made public.
Alternative Flows	Startups and Recruiters encounter incomplete form submissions.
	System prompts to complete required fields.
Quality Requirements	All required job details must be provided.

Table 5: Job Search

Use Case	Job Search
Definition	Job Seekers can search for job listings.
Preconditions	Job Seekers must be logged in.
Success End Condition	Relevant job listings are displayed.
Failed End Condition	Unable to retrieve job listings.
Primary Actors: Secondary Actors:	Job Seekers System
Trigger	The “Search” button needs to be clicked.
Main Success Flows	Job Seekers log into the application.
	Job Seekers navigate to the job search section.
	Job Seekers enter search criteria (e.g., keywords, location).
	Job Seekers click the “Search” button.
	The system retrieves and displays relevant job listings.
Alternative Flows	Job Seekers enter invalid search criteria.
	The system prompts us to adjust the criteria.
Quality Requirements	Search results must be relevant to the criteria.

Table 6: Apply Job

Use Case	Apply for Job
Definition	Job Seekers can apply for job openings.
Preconditions	Job Seekers must be logged in and have a resume uploaded.
Success End Condition	The job application has been successfully submitted.
Failed End Condition	Unable to apply.
Primary Actors: Secondary Actors:	Job Seekers System
Trigger	The “Apply” button needs to be clicked.
Main Success Flows	Job Seekers log into the application.
	Job Seekers search and find a suitable job listing.
	Job Seekers click the “Apply” button.
	Job Seekers confirm application details.
	The system applies.
	Application submission is confirmed.
Alternative Flows	Job Seekers encounter issues with resume attachments.
	The system prompts you to re-upload or correct the issue.
Quality Requirements	A resume and other required documents must be attached.

Table 7: Assessments

Use Case	Assessments
Definition	Startups can create assessments; Job Seekers can take assessments.
Preconditions	Startups and Job Seekers must be logged in.
Success End Condition	Assessment is successfully created or completed.
Failed End Condition	Unable to create or complete the assessment.
Primary Actors: Secondary Actors:	Startups and Job Seekers System
Trigger	The “Create Assessment” or “Take Assessment” button needs to be clicked.
Main Success Flows	Startups log into the application.
	Startups navigate to the assessment creation section.
	Startups create and save assessments.
	Job Seekers log into the application.
	Job Seekers navigate to the assessment section.
	Job Seekers take the assessment.
	The system records the results.
Alternative Flows	Job Seekers face technical issues during the assessment.
	The system provides troubleshooting steps or allows rescheduling.
Quality Requirements	Assessments must be clear and relevant to job requirements.

Table 8: Parse Resume

Use Case	Parse Resume
Definition	The system parses uploaded resumes to extract key information of skills.
Preconditions	Resume must be uploaded.
Success End Condition	Resume is successfully parsed.
Failed End Condition	Unable to parse the resume.
Primary Actors: Secondary Actors:	System Job Seekers
Trigger	“Upload your Resume” button needs to be clicked.
Main Success Flows	Job Seekers upload their resume.
	The system receives the resume.
	The system parses the resume.
	Parsed data is stored in the job seeker’s profile.
Alternative Flows	Resume is in an unsupported format.
	The system prompts you to upload a compatible file.
Quality Requirements	Parsing must be accurate and comprehensive.

Table 09: Skill Matching

Use Case	Skill Matching
Definition	The system matches job seekers' skills with job requirements.
Preconditions	The resume must be parsed.
Success End Condition	Relevant job matches are identified.
Failed End Condition	No matches were found.
Primary Actors: Secondary Actors:	System Job Seekers
Trigger	Resume parsing completion.
Main Success Flows	Resume parsing is completed.
	The system analyzes the parsed data.
	The system matches skills with job requirements.
	Relevant job matches are presented to the job seeker.
Alternative Flows	No direct matches were found.
	The system suggests similar jobs or additional skills to acquire.
Quality Requirements	Matching must be precise and relevant.

Table 10: Job Recommendation

Use Case	Job Recommendation
Definition	The system provides personalized job recommendations to job seekers.
Preconditions	Job Seekers must have a profile with parsed resume data.
Success End Condition	Job recommendations are provided.
Failed End Condition	No suitable recommendations.
Primary Actors: Secondary Actors:	System Job Seekers

Trigger	System completion of skill matching.
Main Success Flows	The system completes skill matching.
	The system generates job recommendations.
	Job Seekers receive and review recommendations.
Alternative Flows	No strong matches were found.
	The system advises on profile updates for better matches.
Quality Requirements	Recommendations must be relevant and timely.

Table 11: Job Alert & Notification

Use Case	Job Alert & Notification
Definition	The system sends alerts and notifications to job seekers about job-related updates.
Preconditions	Job Seekers must be registered and subscribed to alerts.
Success End Condition	Notifications are successfully sent.
Failed End Condition	Notifications fail to send.
Primary Actors: Secondary Actors:	System Job Seekers
Trigger	The “Notification” button needs to be clicked. Event-based (e.g., new job posting, application status change).
Main Success Flows	A new job posting or relevant event occurs.
	The system generates a notification.
	Job Seekers receive the notification.
Alternative Flows	Job Seekers do not receive notifications due to system error.
	The system retries or logs the issue for support.
Quality Requirements	Notifications must be prompt and accurate.

Table 12: Communication Channel

Use Case	Communication Channel
Definition	Enables communication among job seekers, recruiters, and Job Seekers.
Preconditions	All parties must be logged in.
Success End Condition	Successful exchange of messages.
Failed End Condition	Unable to communicate.
Primary Actors: Secondary Actors:	Job Seekers, Recruiters, Startups System
Trigger	Initiation of communication (e.g., job seeker asks a question).
Main Success Flows	Job Seekers or Recruiters initiate communication.
	The message is sent through the system.
	The recipient receives and responds to the message.
Alternative Flows	Communication fails due to network issues.
	The system retries sending the message.
Quality Requirements	Messages must be delivered reliably and securely.

Table 13: Confidential Rating

Use Case	Confidential Rating
Definition	Recruiters and Startups can rate job seekers confidentially based on their performance.
Preconditions	Job seeker must have interacted with the Recruiters and Startups.
Success End Condition	Rating is successfully submitted.
Failed End Condition	Unable to submit the rating.
Primary Actors: Secondary Actors:	Recruiters and Startups System
Trigger	Completion of interaction (e.g., post-interview).
Main Success Flows	Recruiters and Startups complete interaction with job seekers.

	Recruiters and Startups access the rating section.
	Recruiters and Startups submit a confidential rating.
	The system records the rating.
Alternative Flows	Recruiters encounter issues with rating submissions.
	The system provides error messages and troubleshooting steps.
Quality Requirements	Ratings must remain confidential and accurate.

Table 14: Confirmation

Use Case	Confirmation
Definition	Involves confirming job applications, interview schedules, and job offers.
Preconditions	Relevant actions (e.g., job application) must be completed.
Success End Condition	Confirmation is successfully recorded.
Failed End Condition	Unable to confirm.
Primary Actors: Secondary Actors:	Job Seekers, Recruiters System
Trigger	Completion of relevant action.
Main Success Flows	Job Seekers or Recruiters complete a relevant action.
	The system prompts for confirmation.
	Users confirm the action.
	The system records the confirmation.
Alternative Flows	Users encounter issues with confirmation.
	System provides error message and assistance.
Quality Requirements	Ratings must remain confidential and accurate.

8. Activity Diagram

Activity Diagram (Login/Registration)

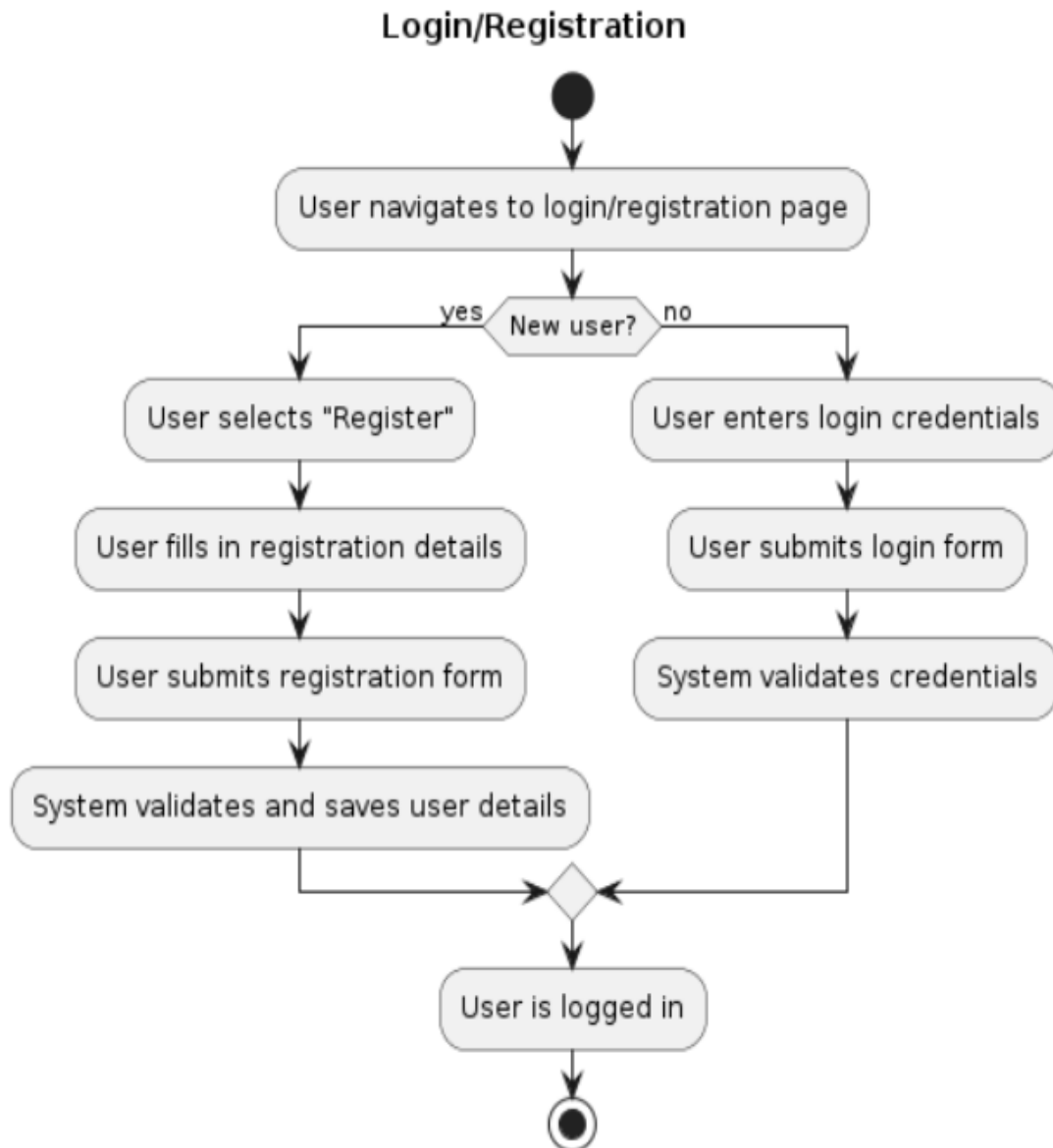
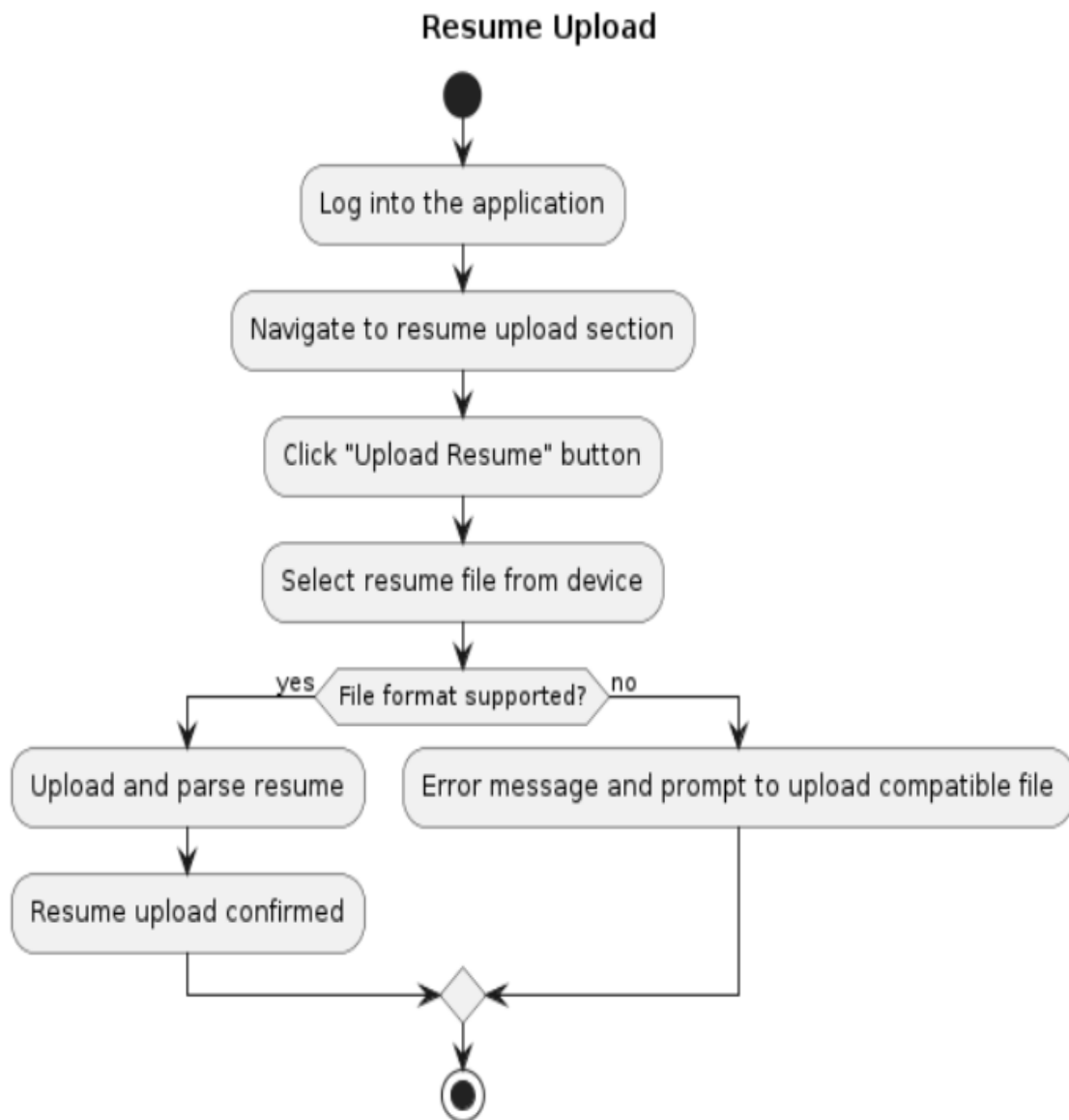
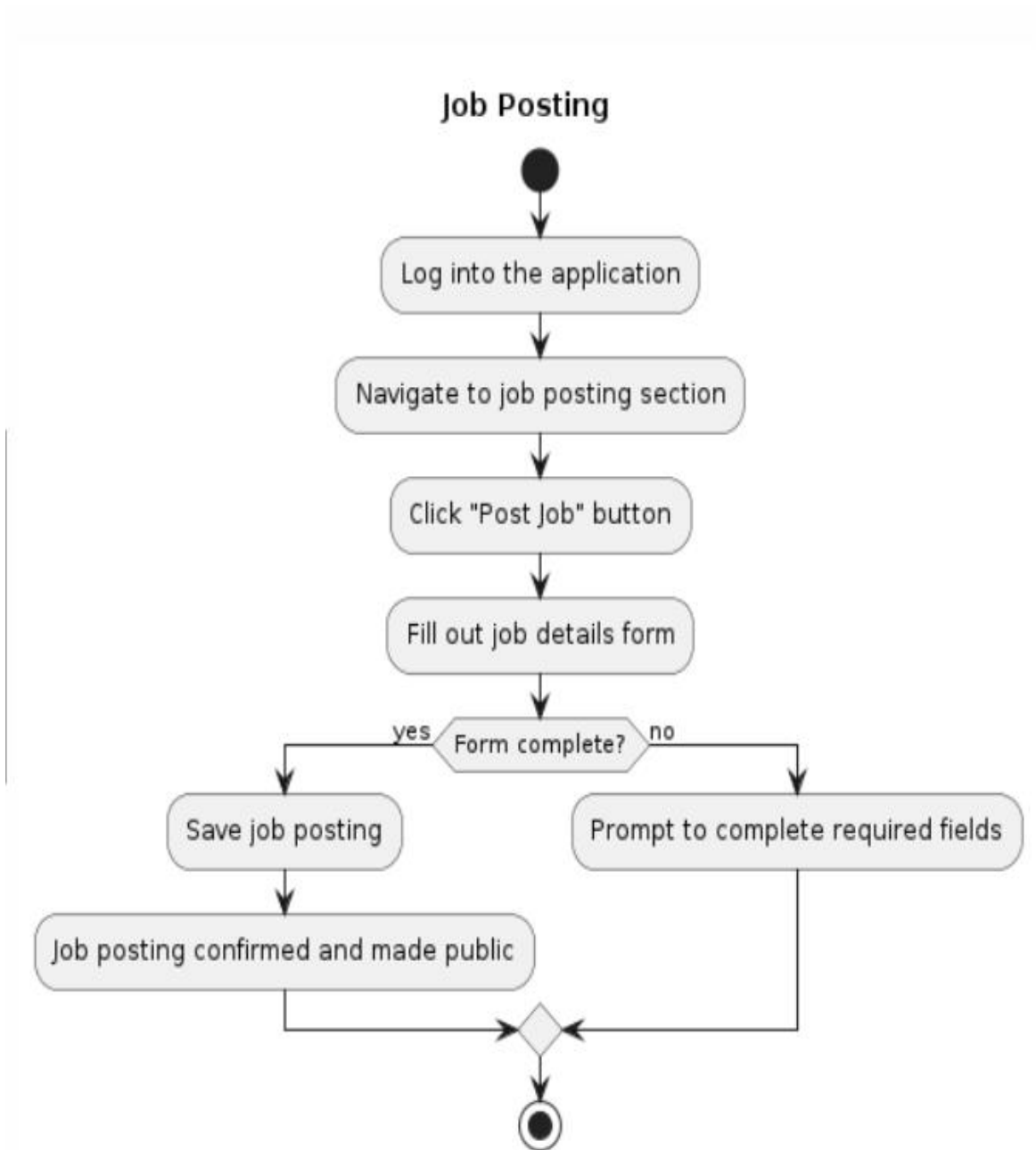


Figure 1: Login/Registration

Activity Diagram (Resume Upload)

*Figure 2: Resume Upload*

Activity Diagram (Job posting)

*Figure 4: Job Posting*

Activity Diagram (Search Job)

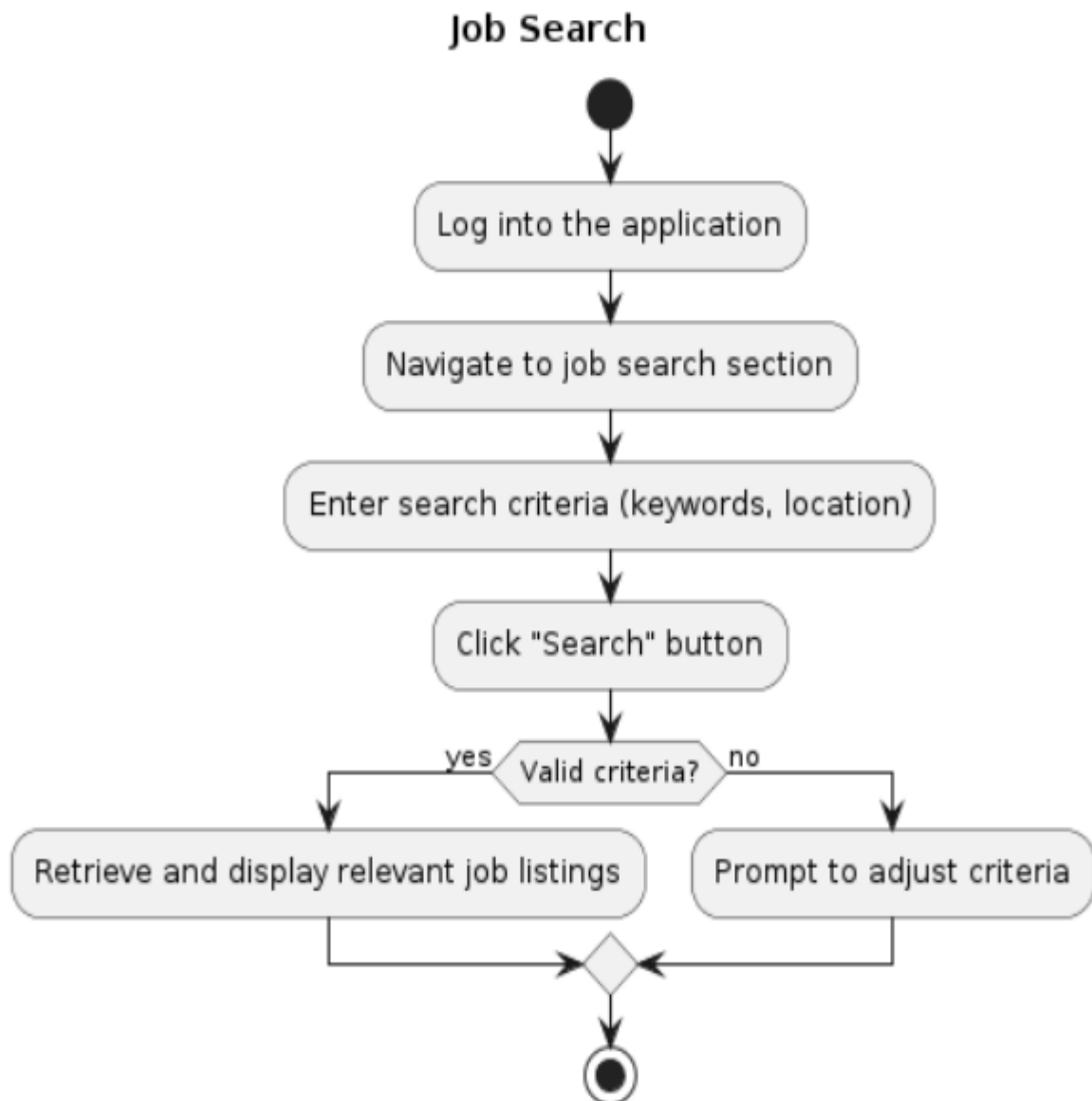


Figure 4: Job Posting

Activity Diagram (Apply Job)

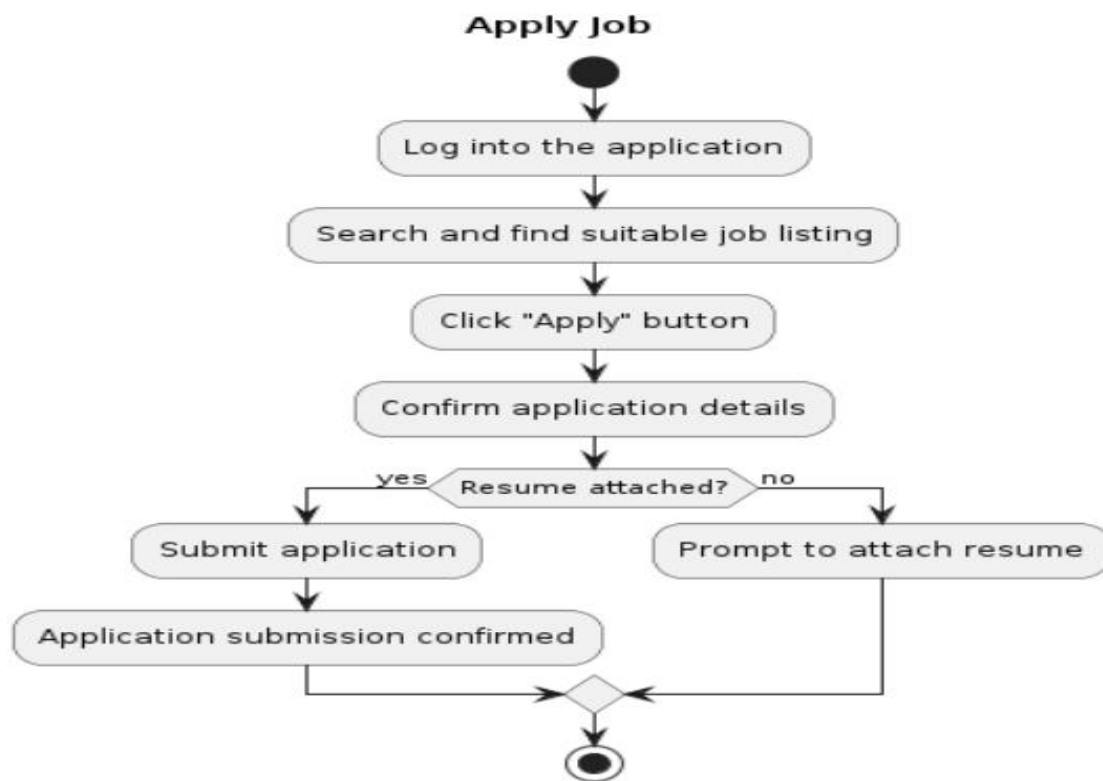


Figure 5: Apply Job

Activity Diagram (Assessments)

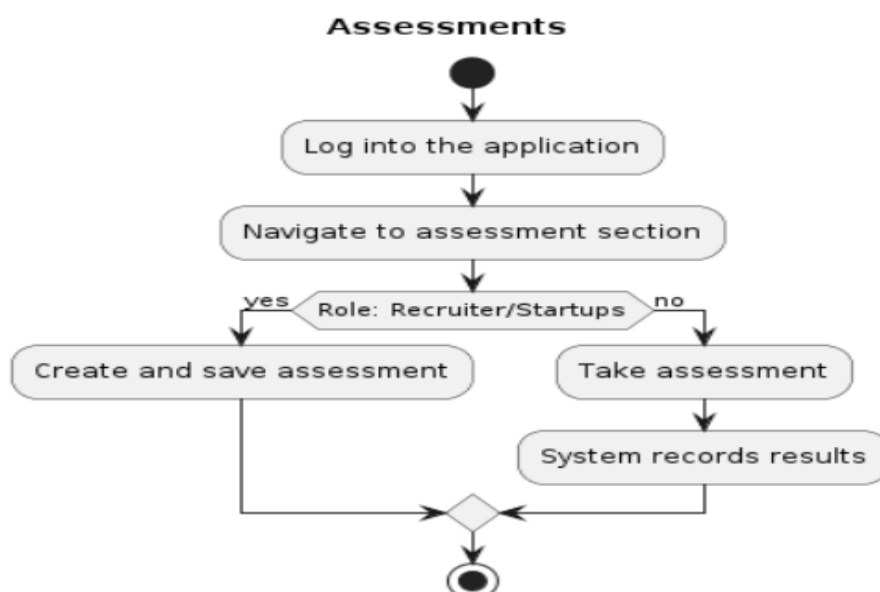
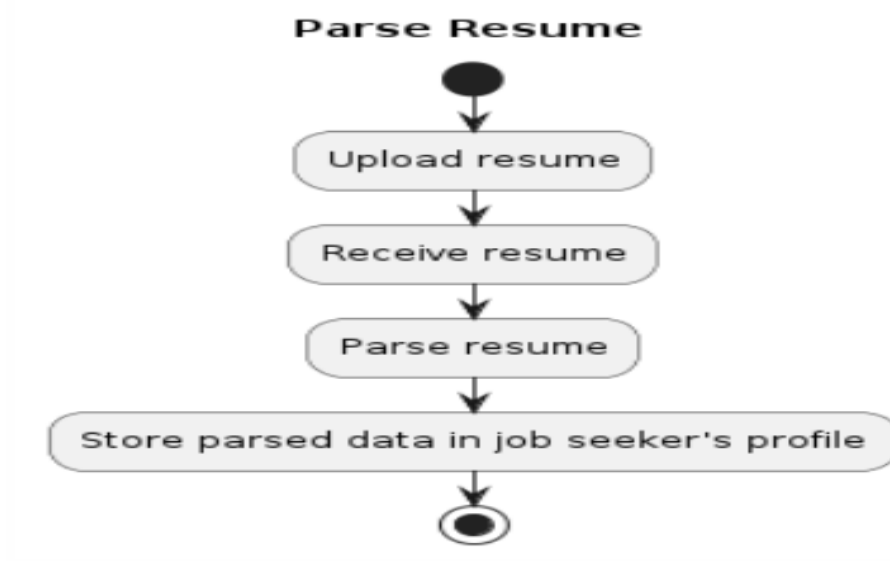


Figure 6: Assessments

Activity Diagram (Parse Resume)

*Figure 7: Parse Resume*

Activity Diagram (Skill Matching)

*Figure 8: Skill Matching*

Activity Diagram (Job Recommendation)

*Figure 9: Job Recommendation*

Activity Diagram (Job Alert & Notification)

*Figure 10: Job Alert & Notification*

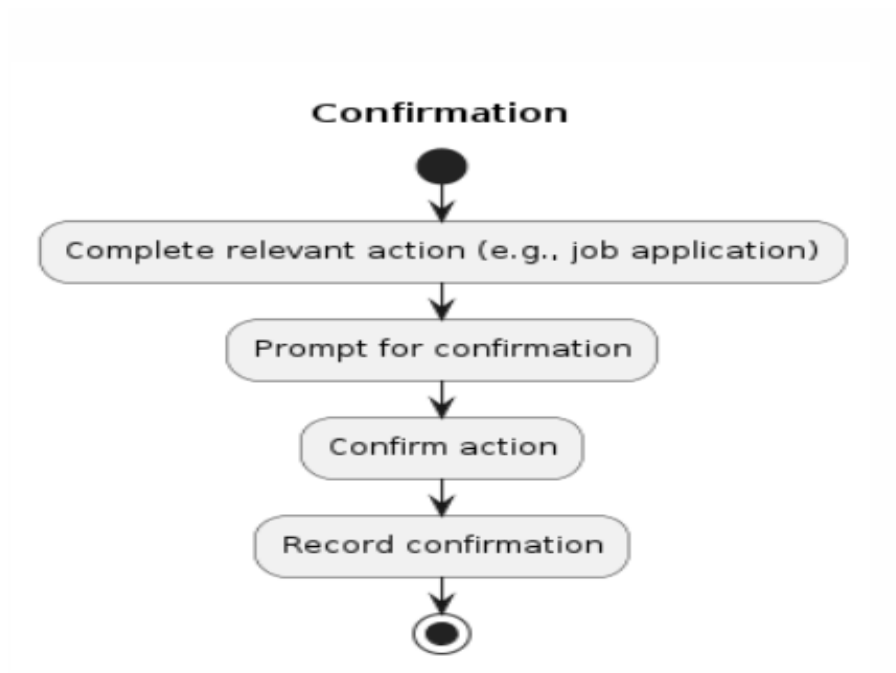
Activity Diagram (Communication Channel)

*Figure 11: Communication Channel*

Activity Diagram (Confidential Rating)

*Figure 12: Confidential Rating*

Activity Diagram (Confirmation)

*Figure 13: Confirmation*

9. Sequence Diagram

Sequence Diagram (Login/Registration)

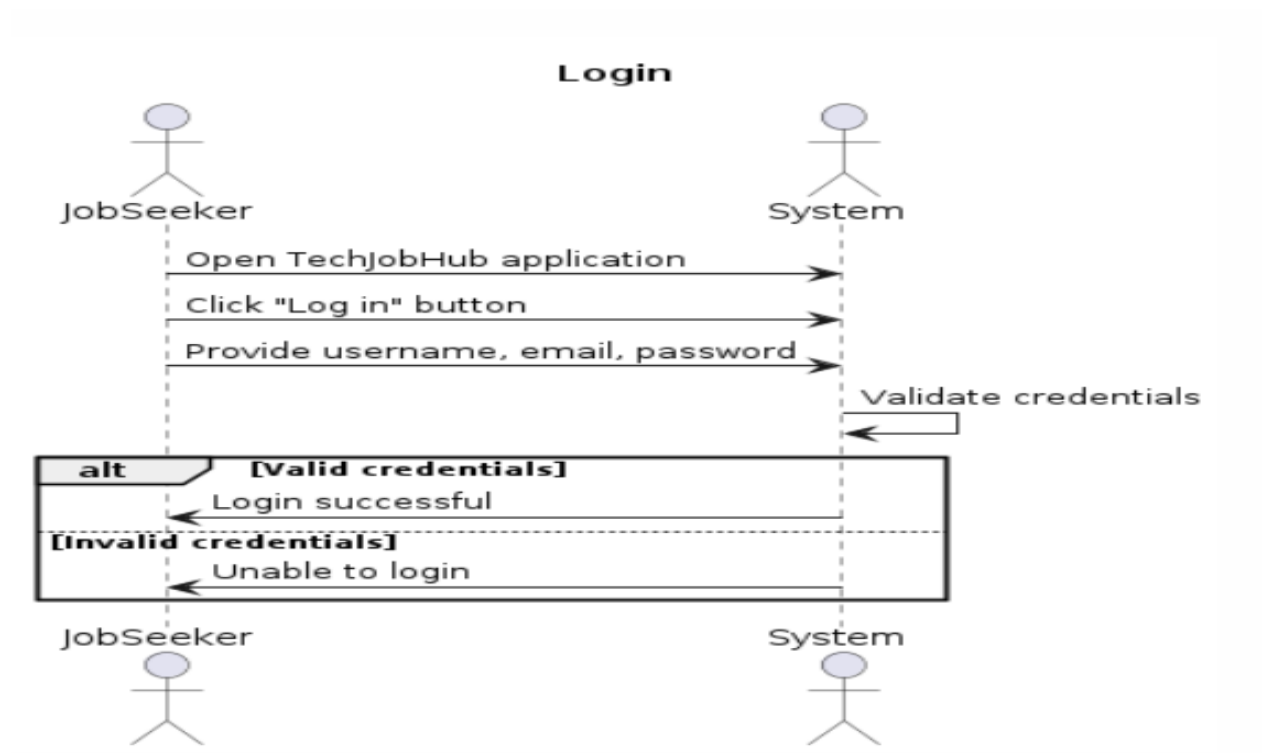
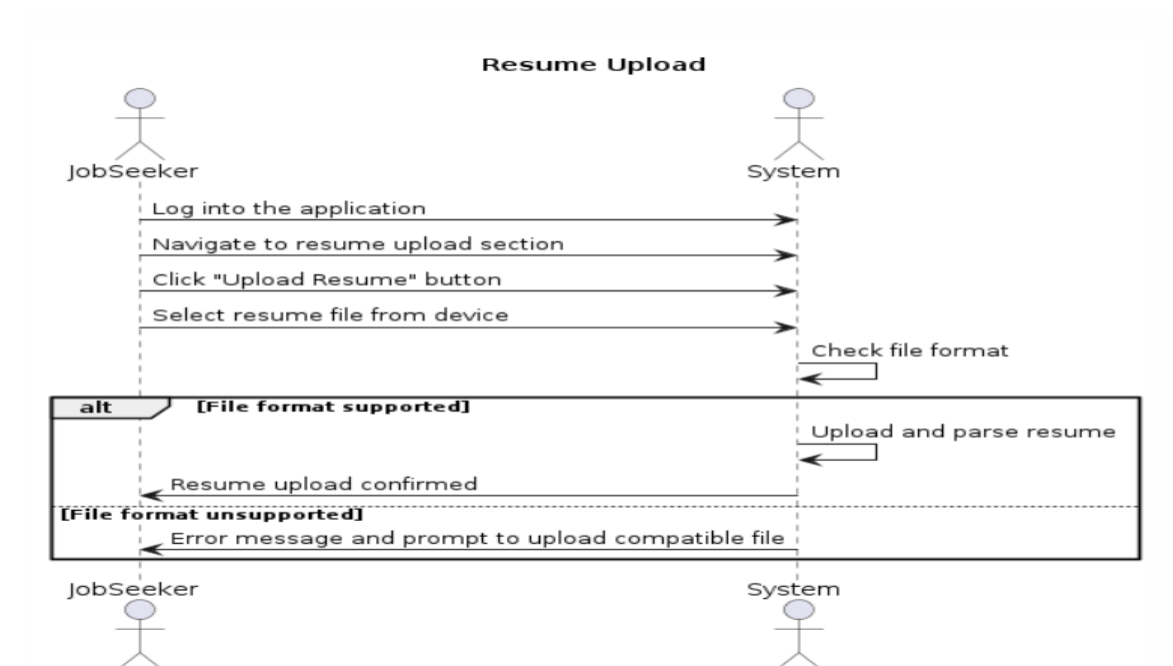


Figure 14: Login/Registration

Sequence Diagram (Resume Upload)



15: Resume Upload

Figure

Sequence Diagram (Job Posting)

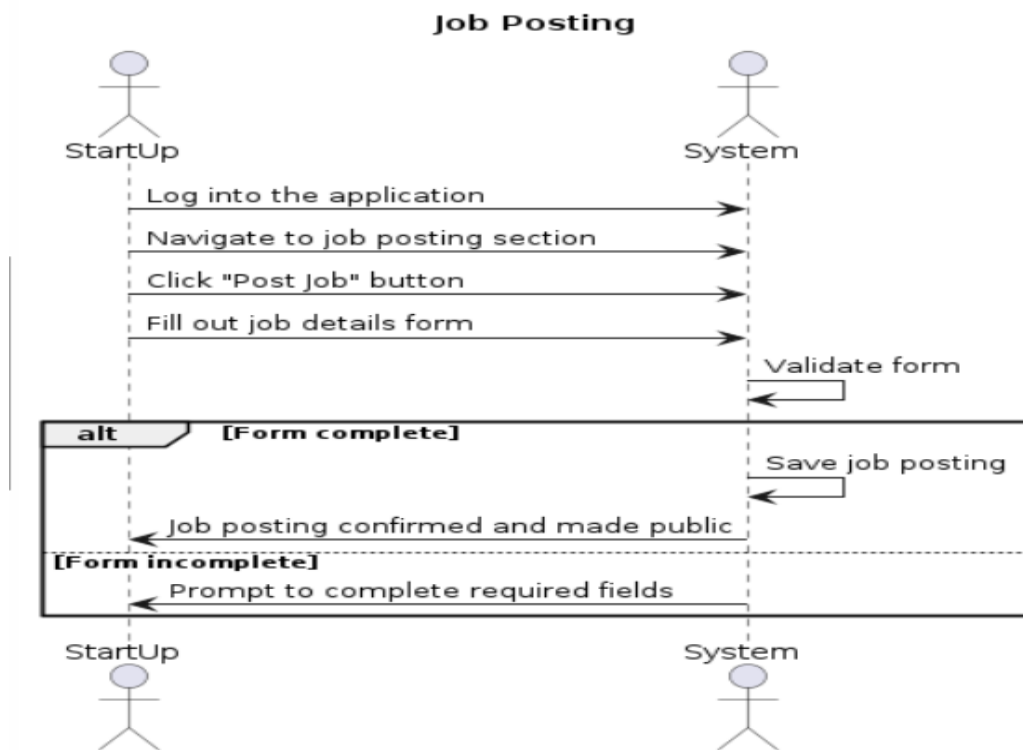


Figure 16: Job Posting

Sequence Diagram (Job Search)

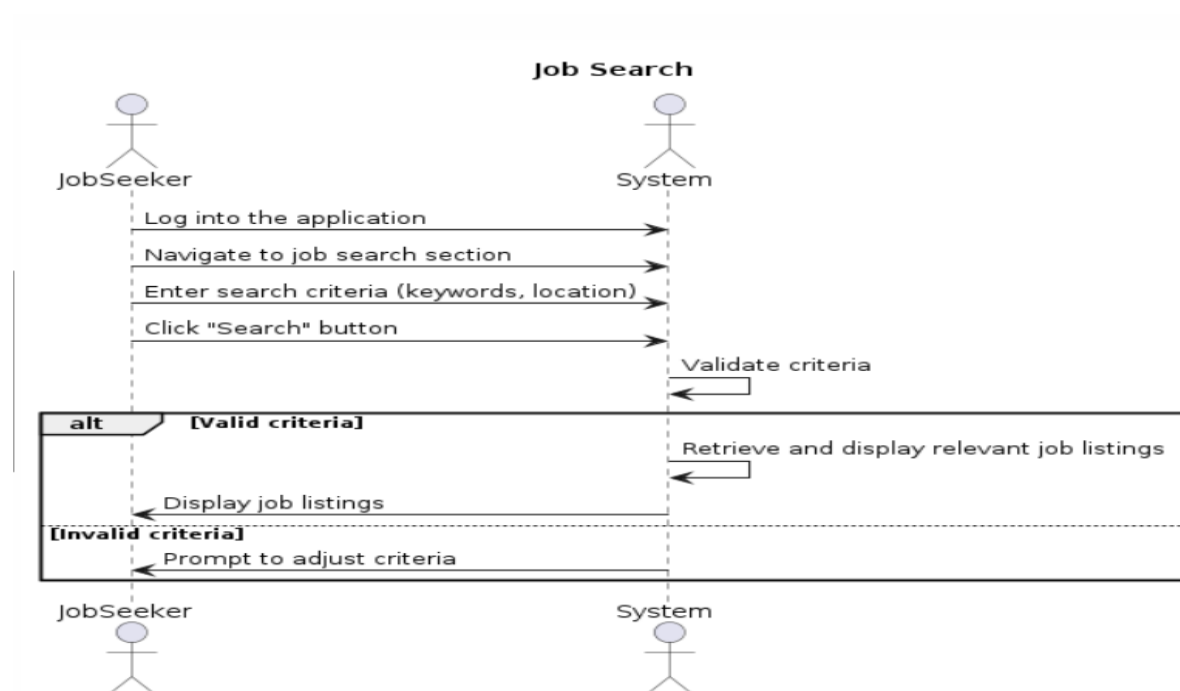


Figure 17: Job Search

Sequence Diagram (Apply Job)

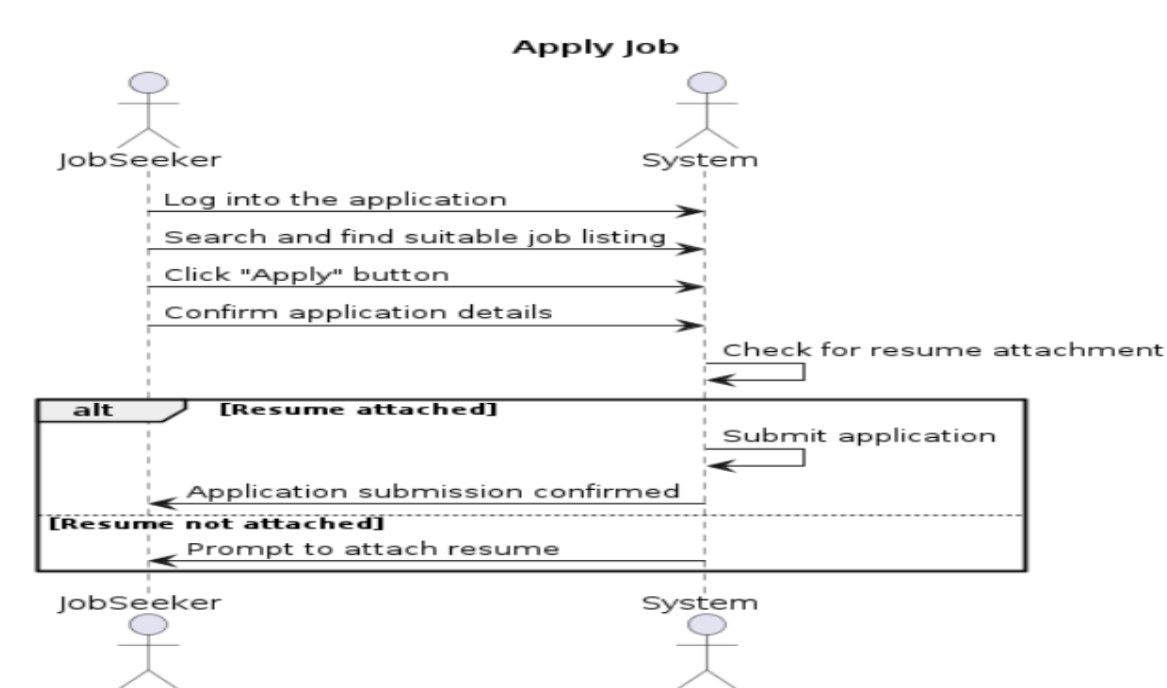


Figure 18: Apply Job

Sequence Diagram (Assessments)

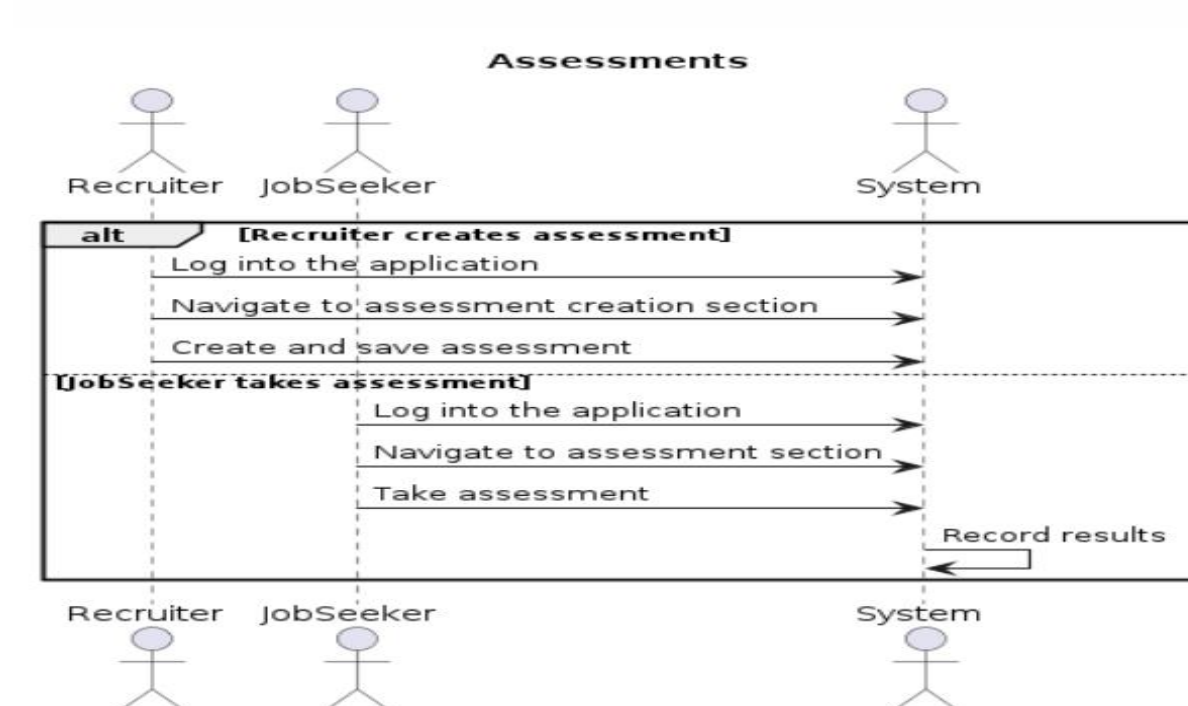


Figure 19: Assessments

Sequence Diagram (Parse Resume)

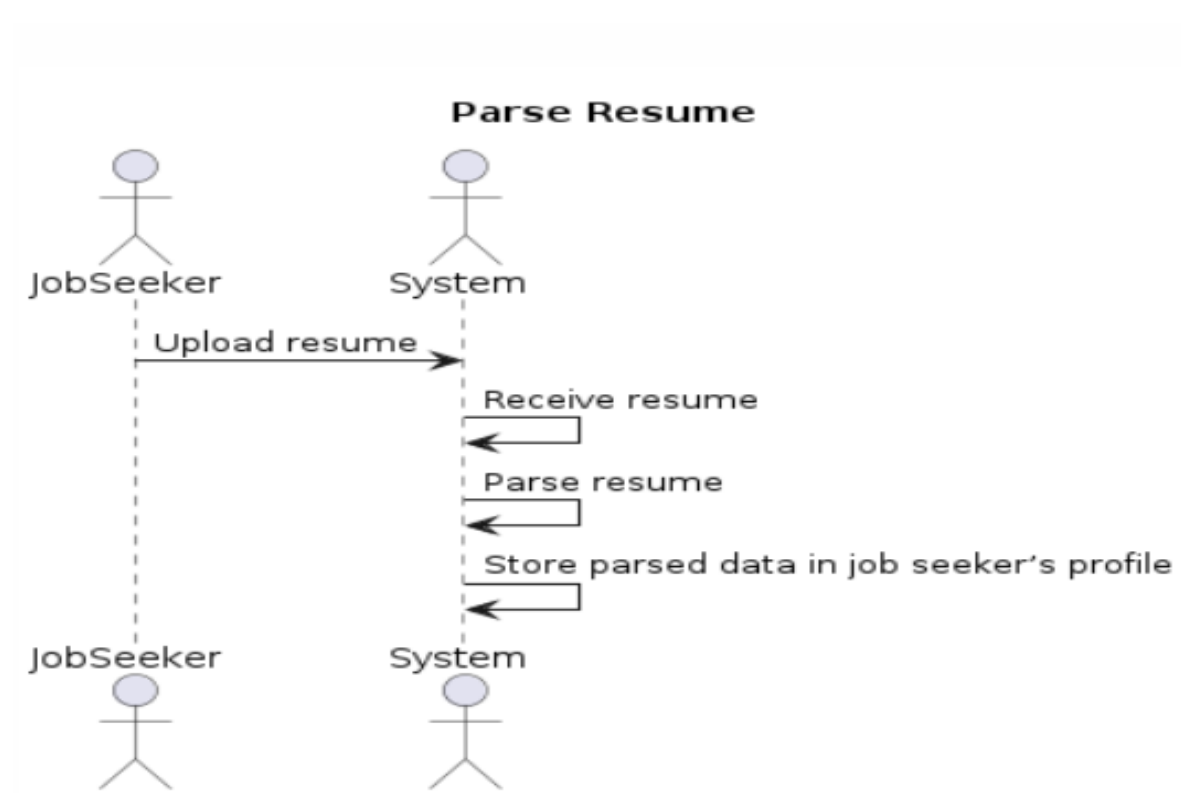


Figure 20: Parse Resume

Sequence Diagram (Skill Matching)

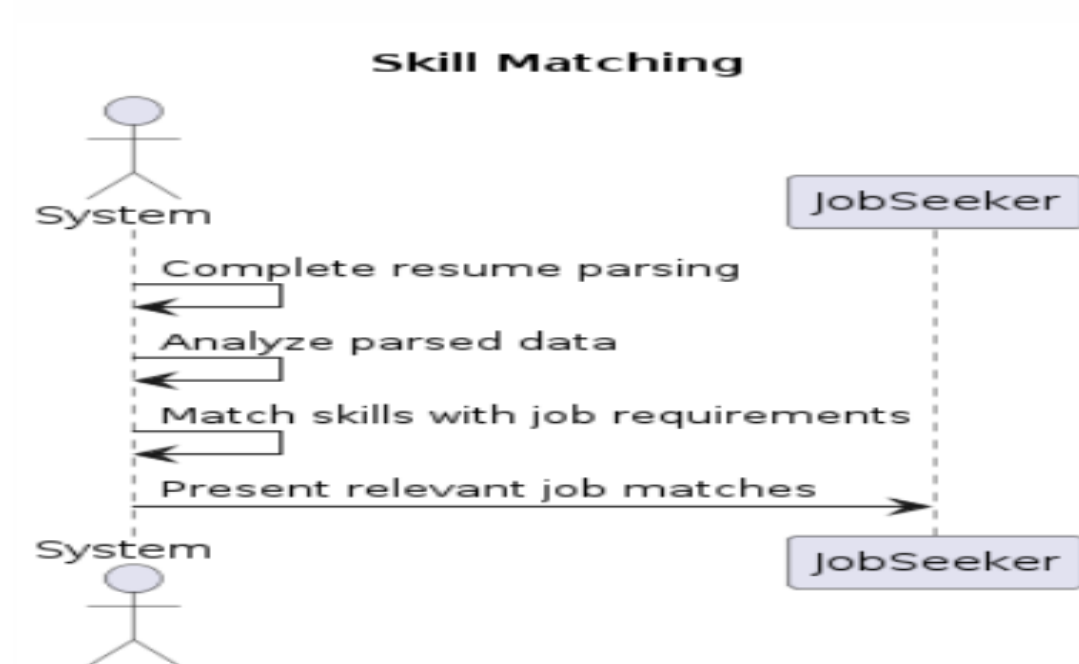


Figure 21: Skill Matching

Sequence Diagram (Job Recommendation)



Figure 22: Job Recommendation

Sequence Diagram (Job Alert & Notification)

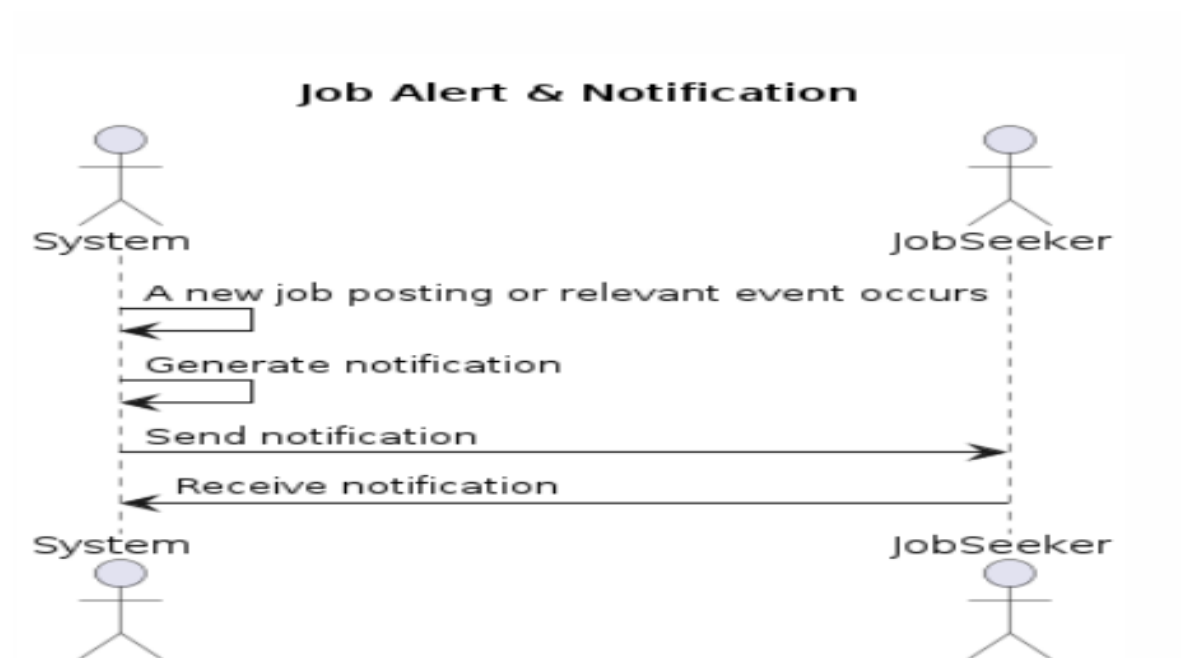


Figure 23: Job Alert & Notification

Sequence Diagram (Communication Channel)

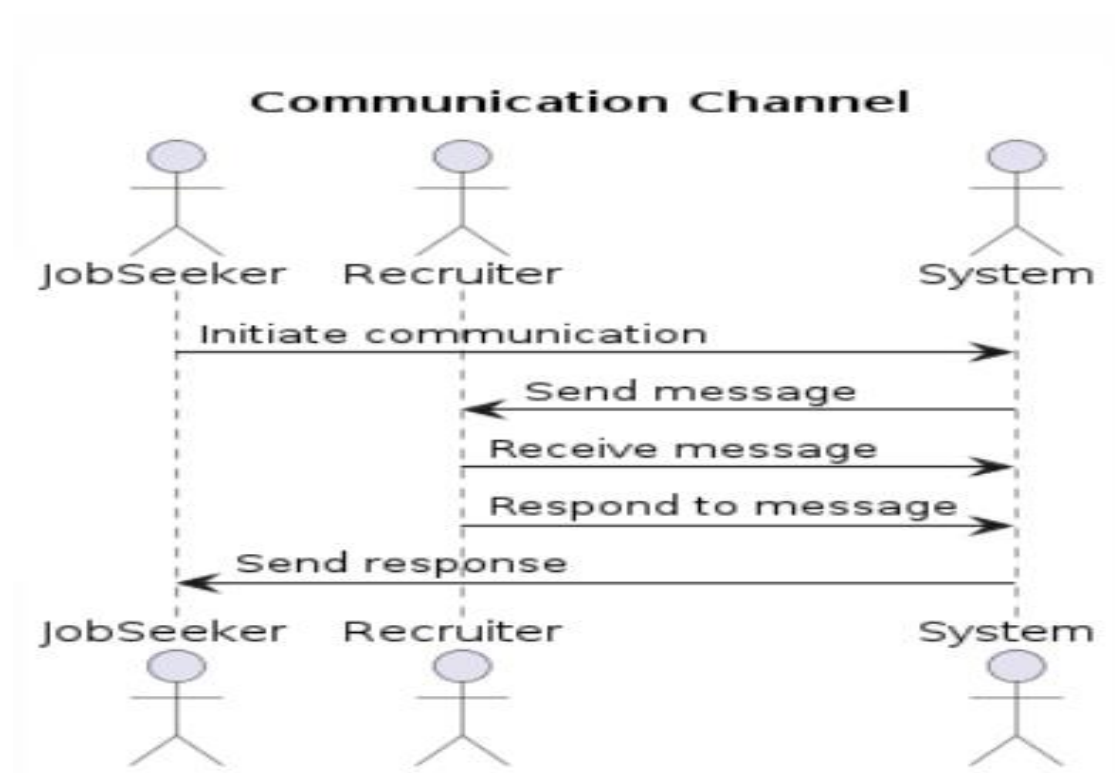


Figure 24: Communication Channel

Sequence Diagram (Confidential Rating)

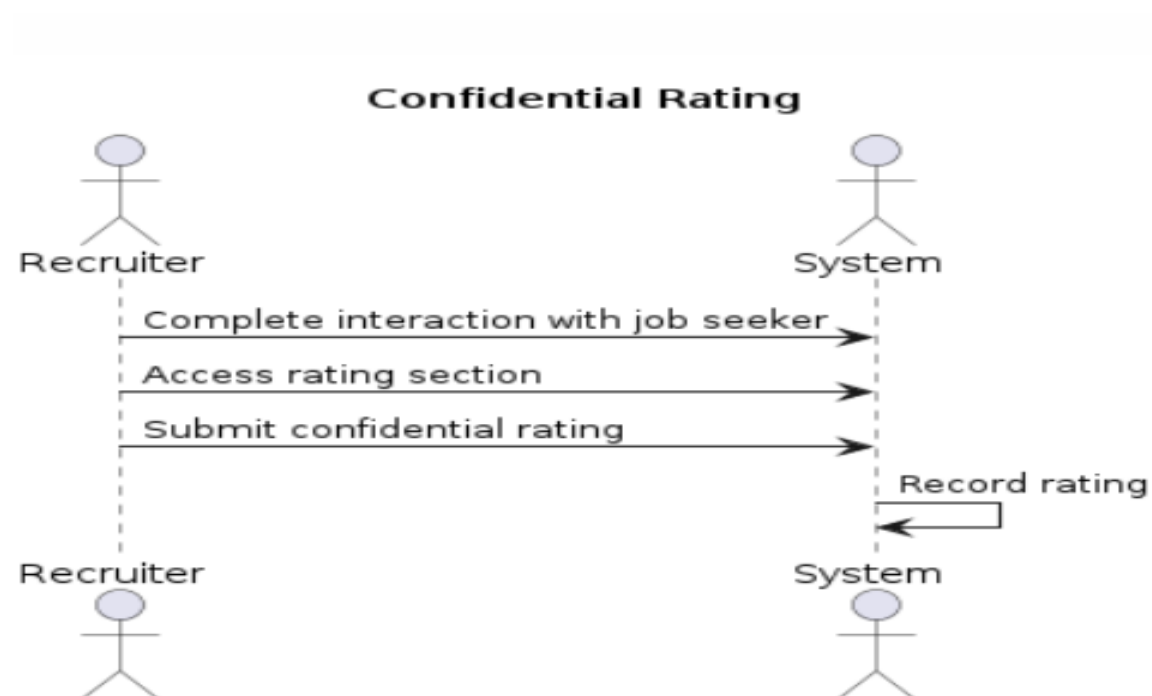


Figure 25: Confidential Rating

Sequence Diagram (Confirmation)

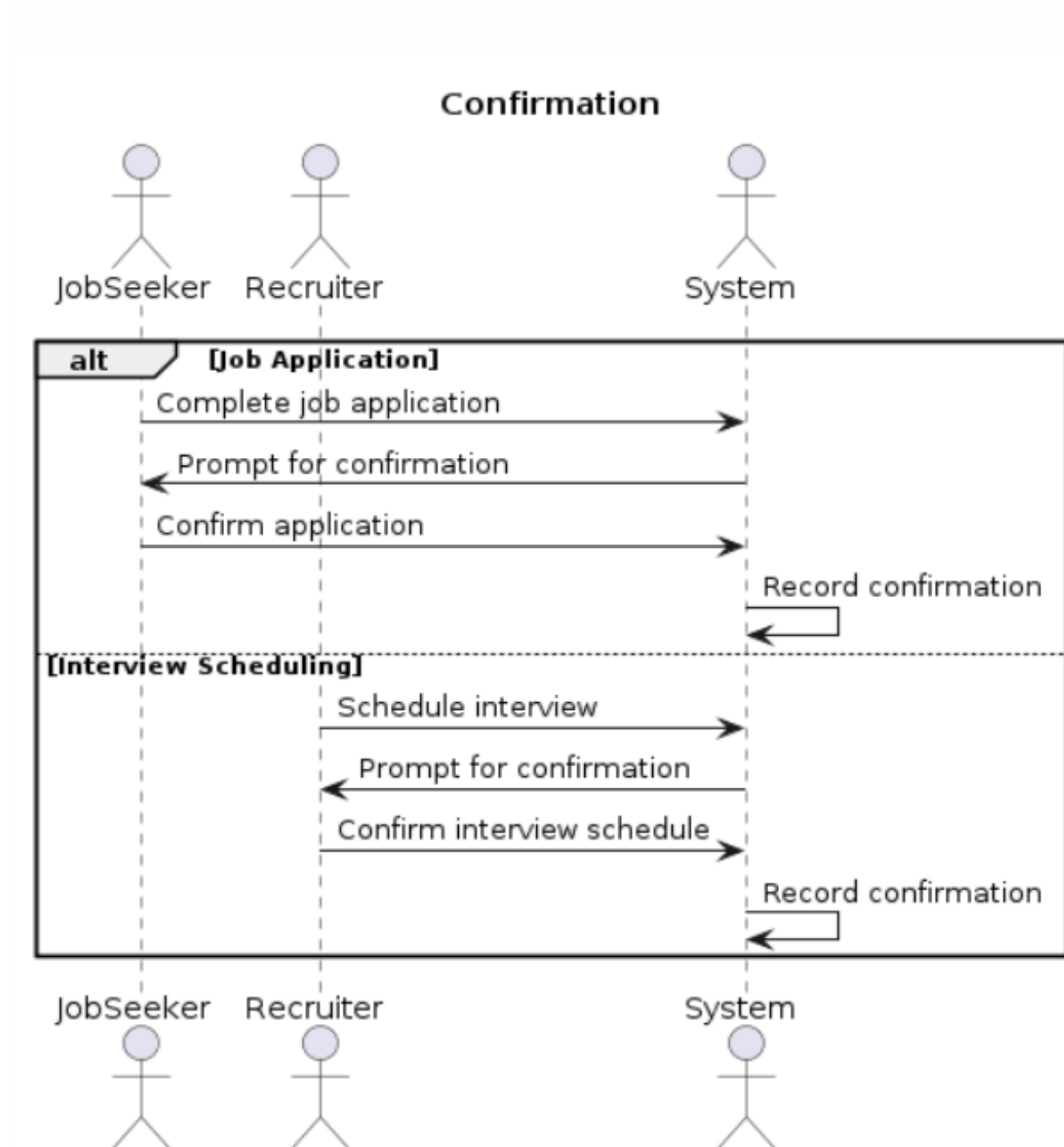


Figure 26: Confirmation

10. Swim Lane Diagram:

Swim Lane (Login/Registration)

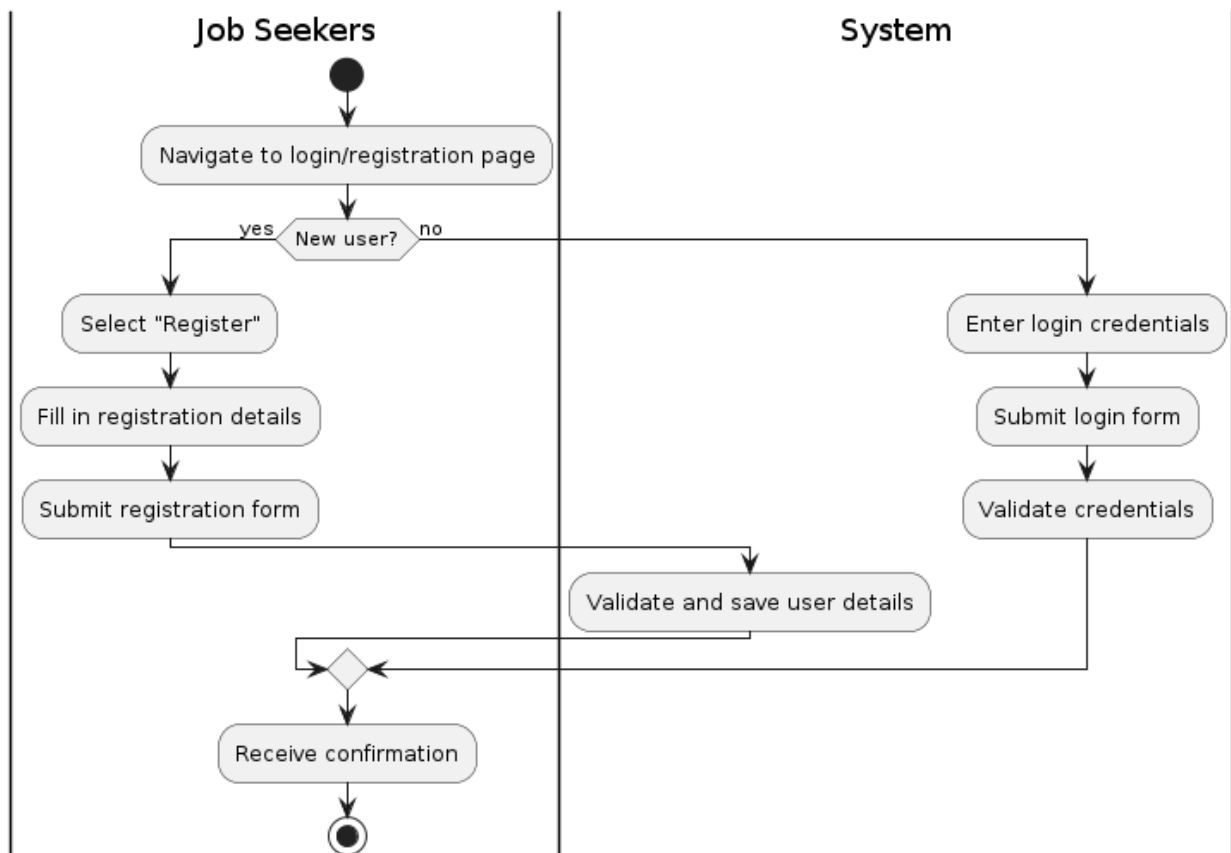


Figure 27: Login/Registration

Swim Lane (Job Posting)

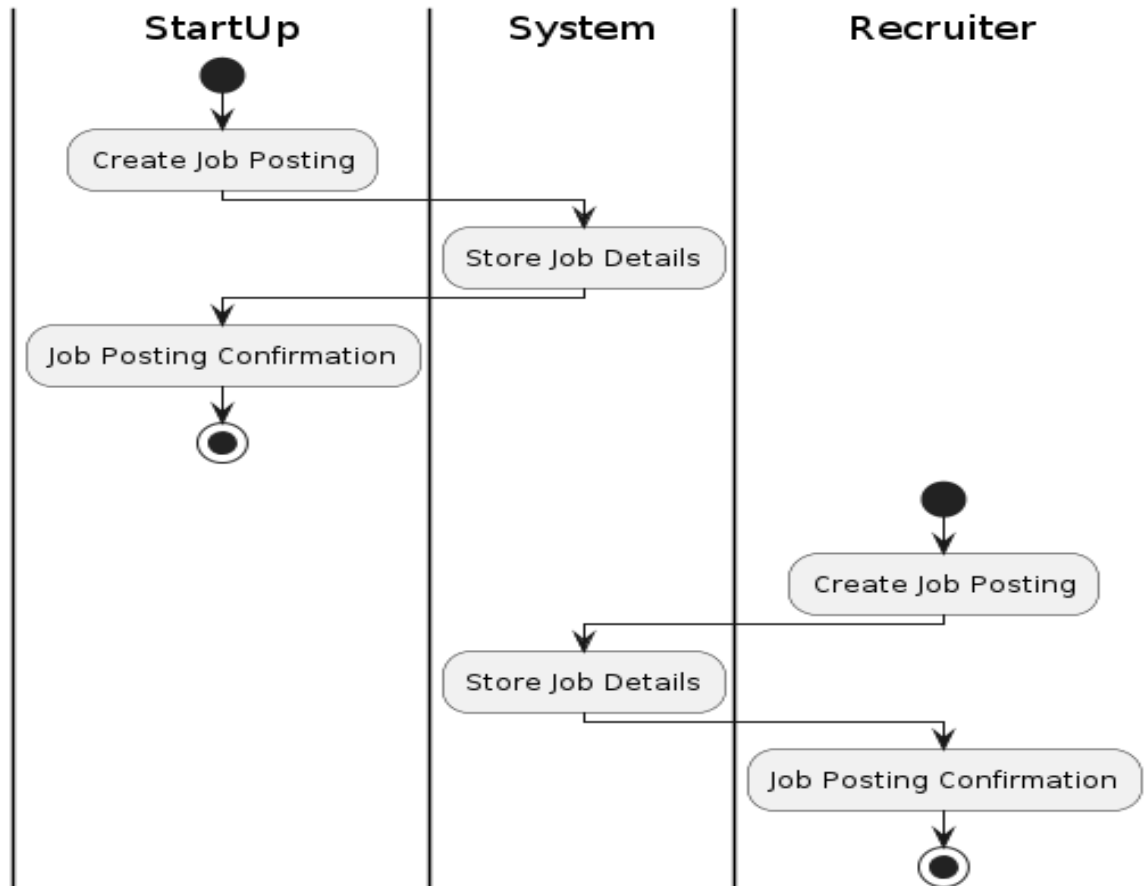


Figure 28: Job Posting

Swim Lane (job Search)

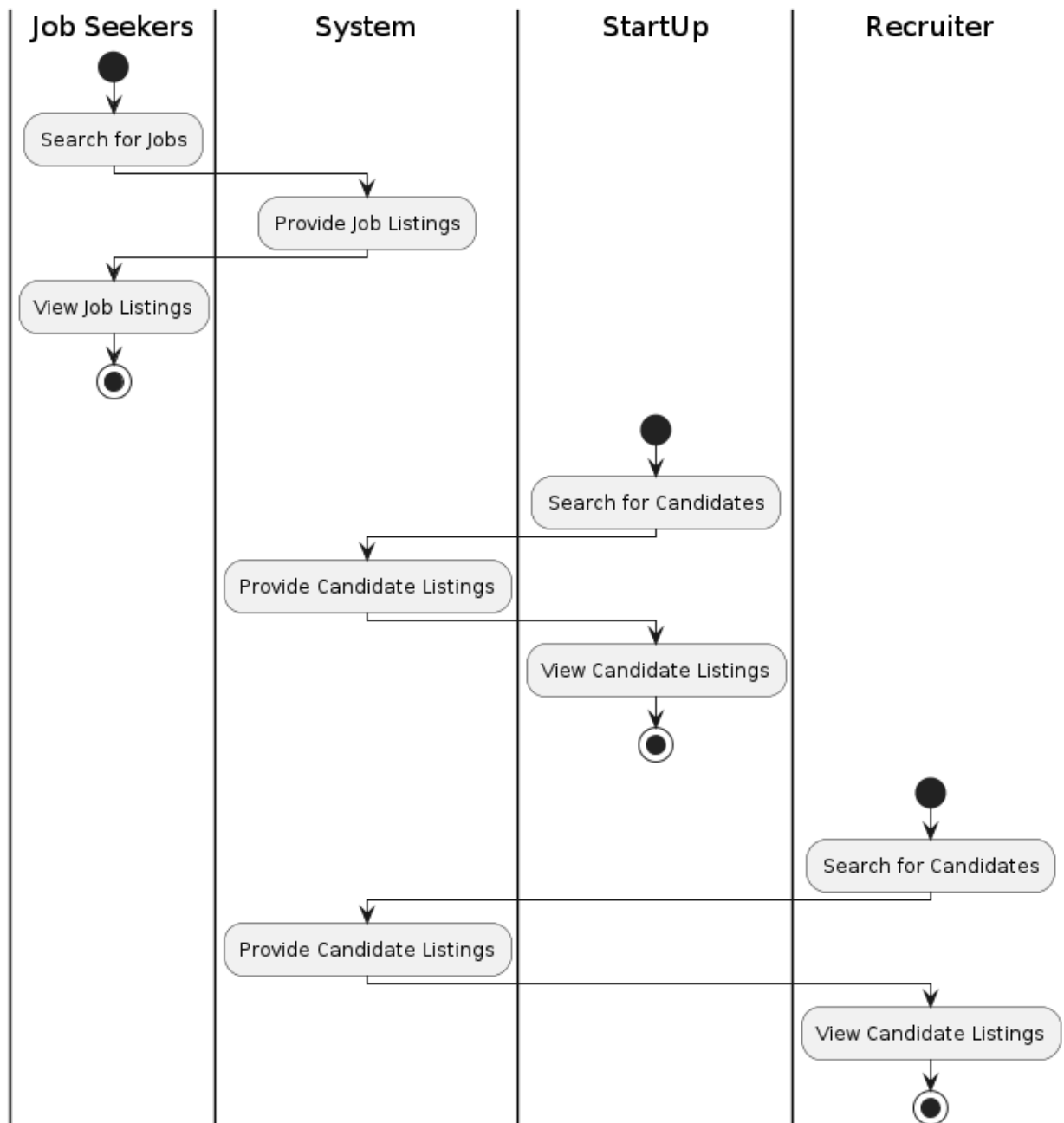


Figure 29: Job Searching

Swim Lane (Upload Resume)

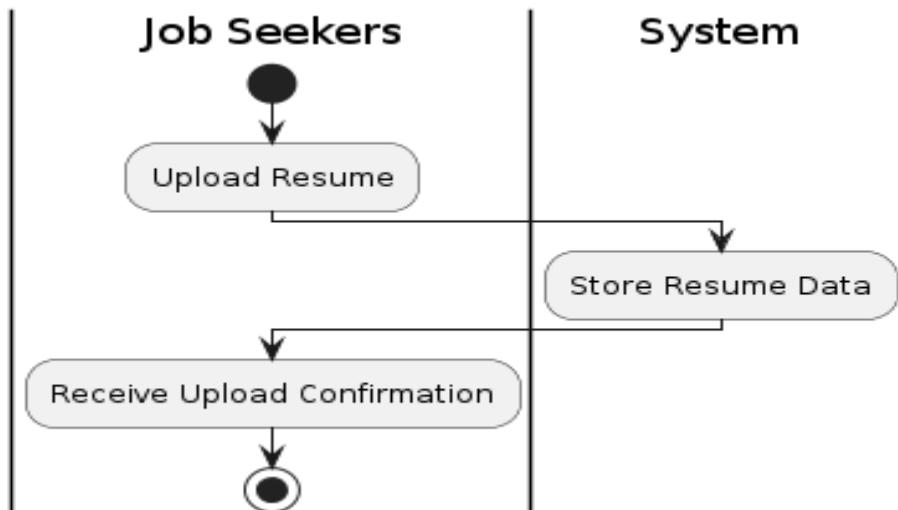


Figure 30: Upload Resume

Swim Lane (Parse Resume)

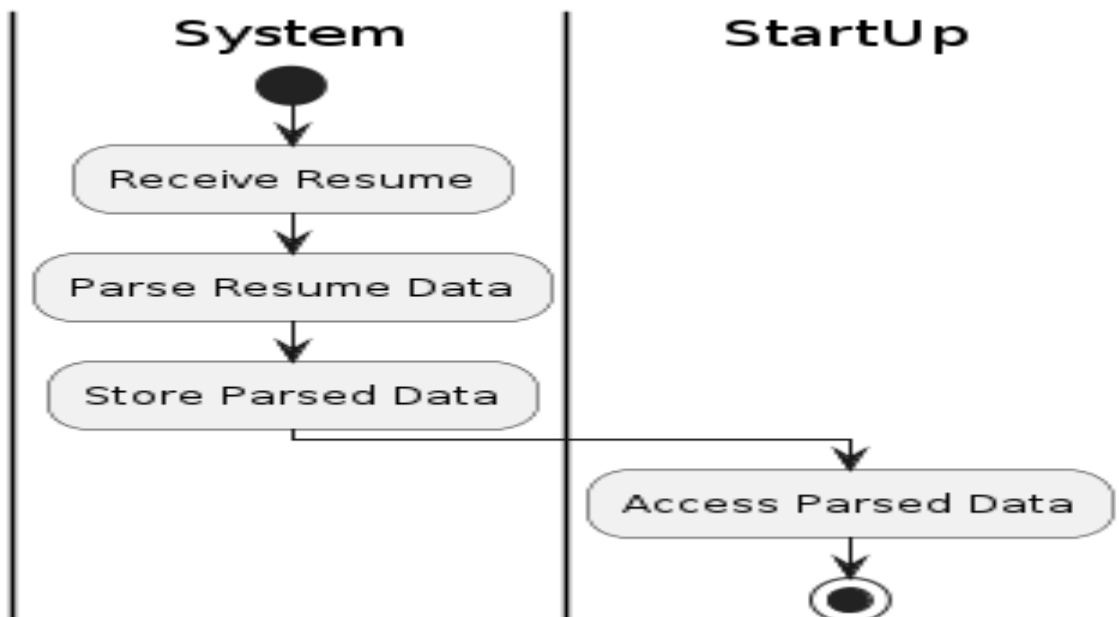


Figure 31: Parse Resume

Swim Lane (Skill Matching)

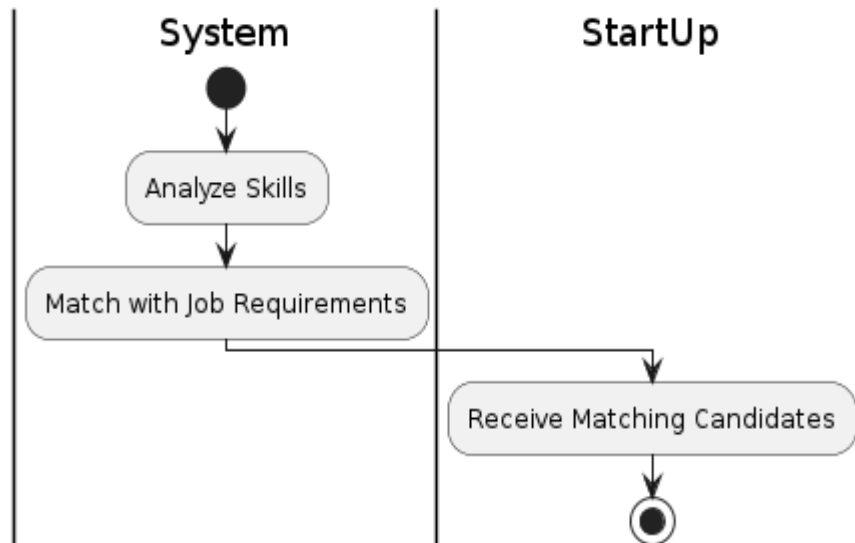


Figure 32: Skill Matching

Swim Lane (Job Recommendation)

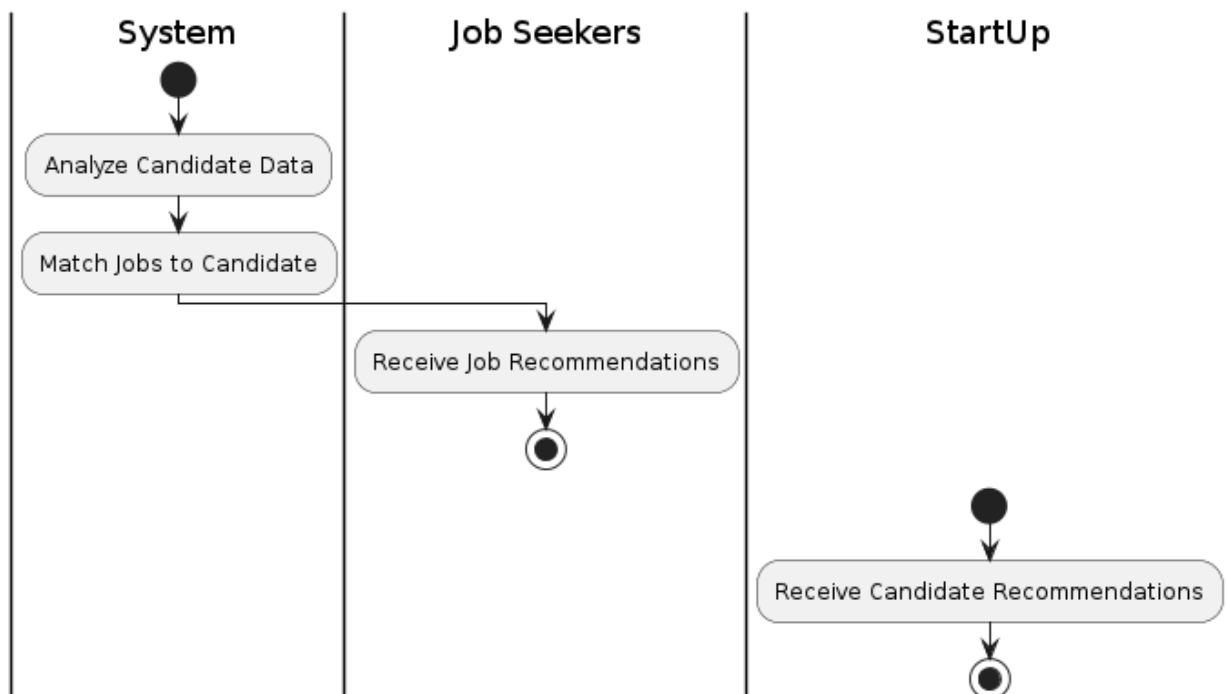


Figure 33: Job Recommendation

Swim Lane (Apply Job)

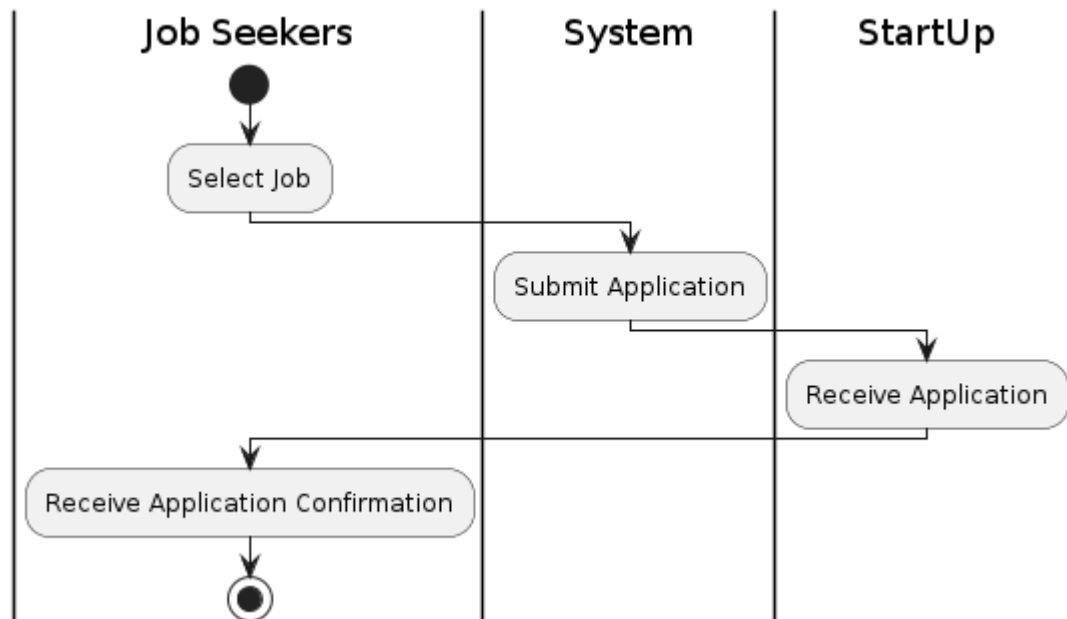


Figure 34: Apply Job

Swim Lane (Assessment)

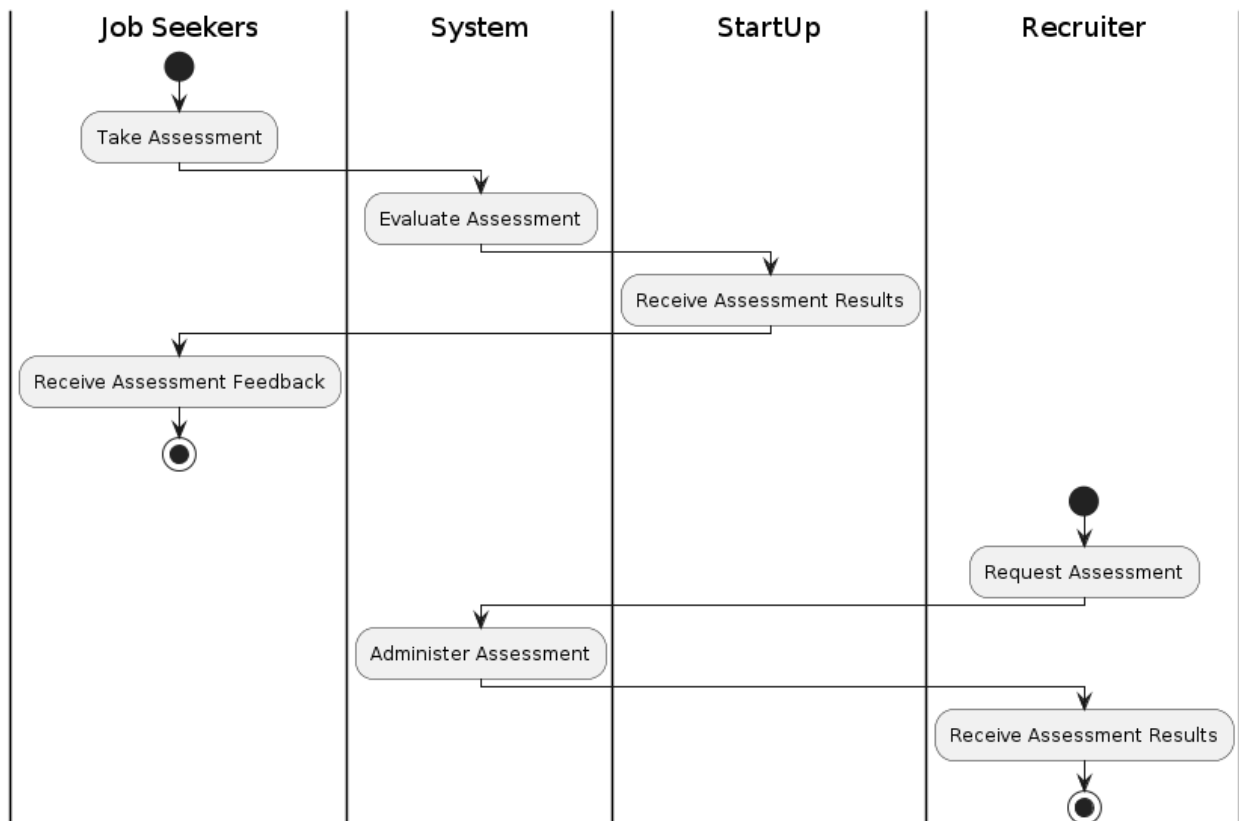


Figure 35: Assessment

Swim Lane (Ratings)

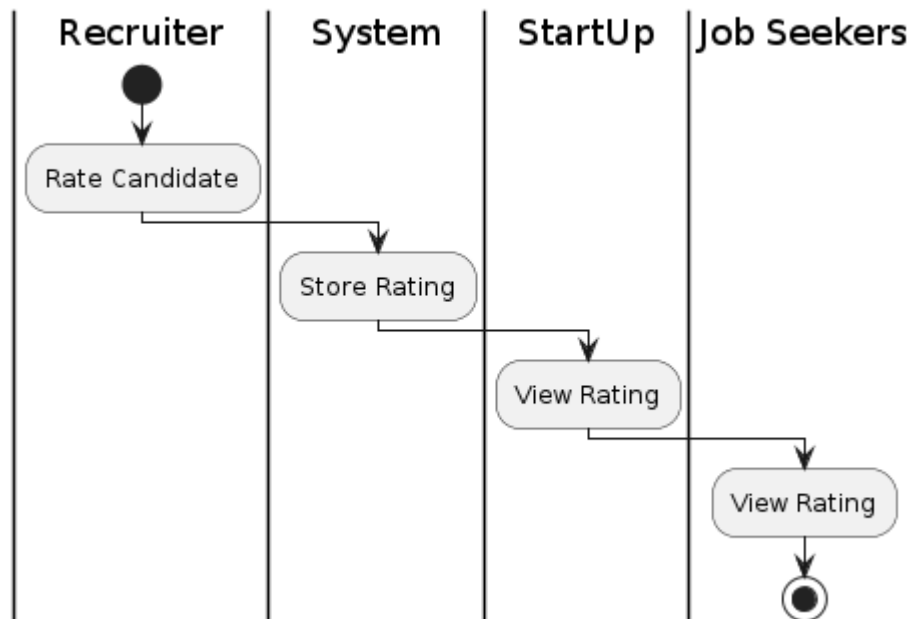


Figure 36: Ratings

Swim Lane (Communication Channel)

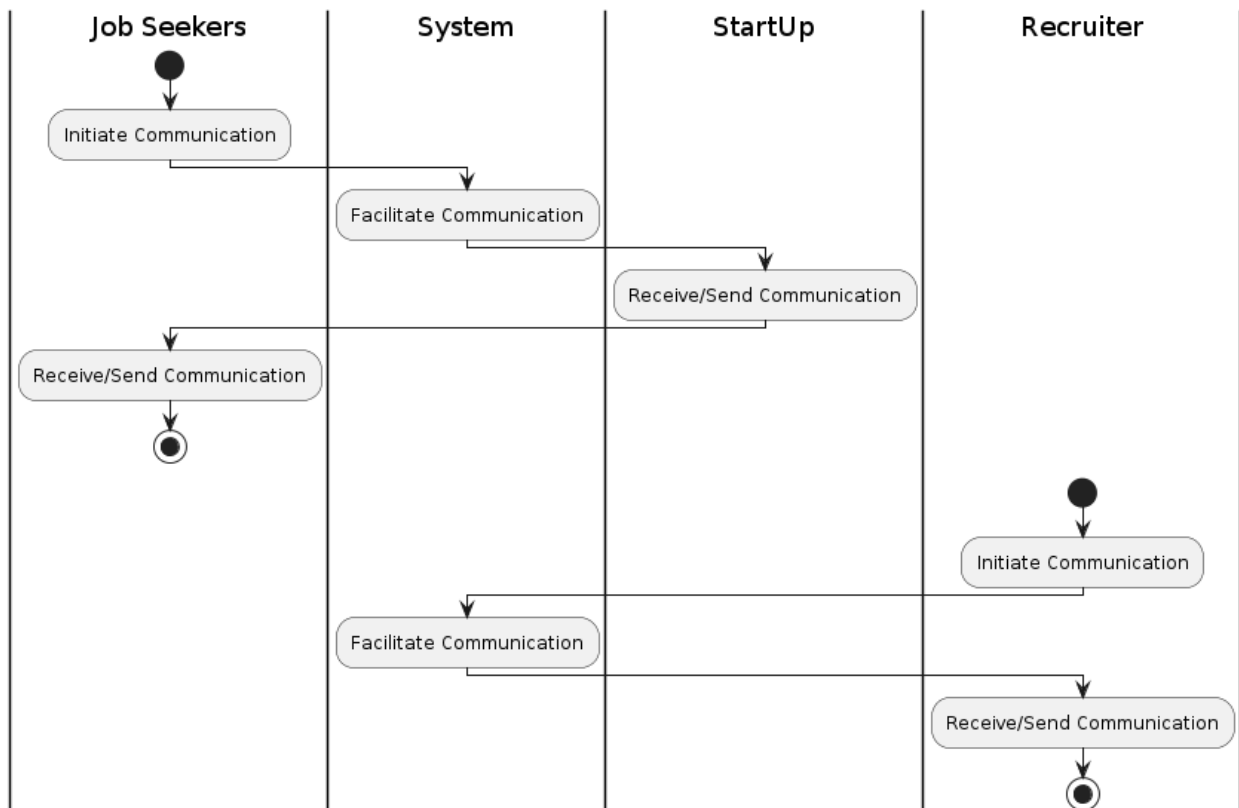


Figure 37: Communication Channel

Swim Lane (Job Alert & Notification)

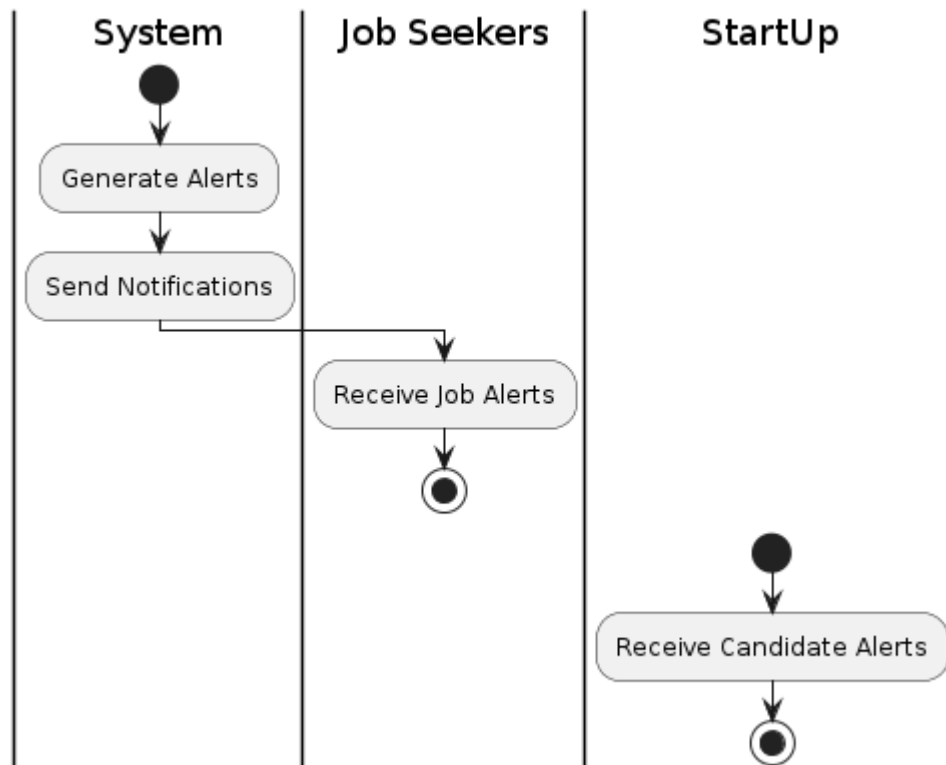


Figure 38: Job Alert & Notifications

Swim Lane (Confirmation)

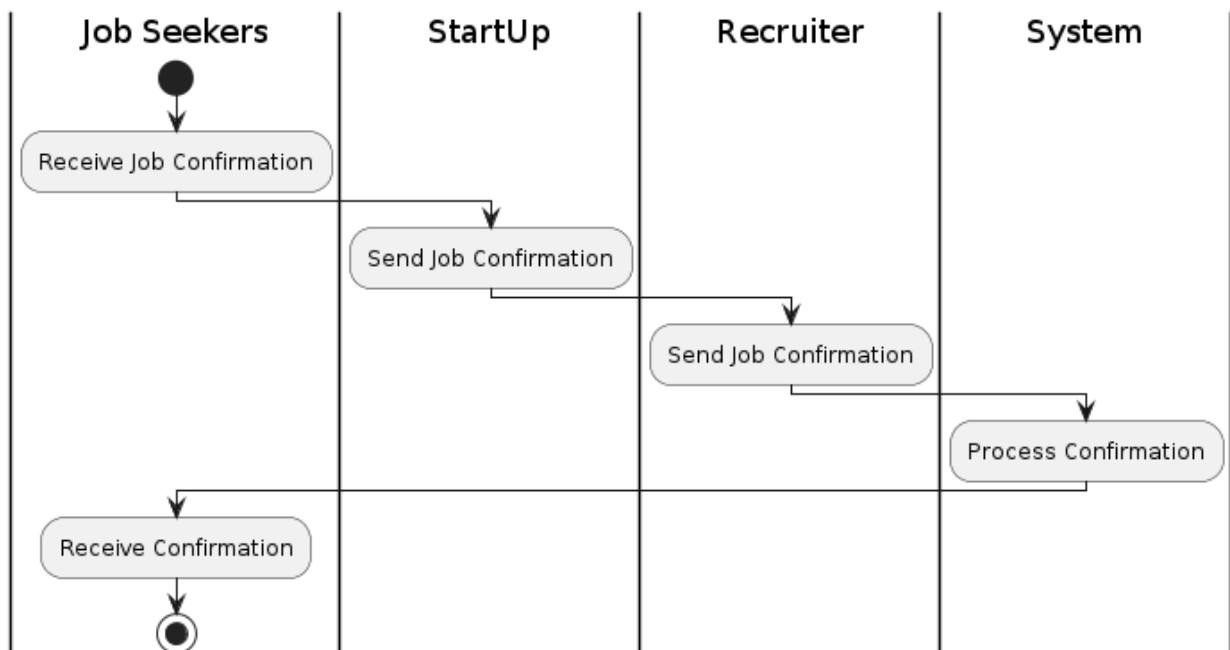


Figure 39: Confirmation