# Software Requirements Specification

### for

# JOB FICTION

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# 1.    Introduction

## 1.1    Purpose

This is a job portal website that serves as a dynamic platform connecting job seekers with employers, facilitating the intricate process of talent acquisition. Its primary purpose is to streamline and expedite the job search and recruitment processes by providing a centralized space for employers to post job openings and for individuals to explore diverse career opportunities. Job seekers can create personalized profiles, upload resumes, and actively search for positions that align with their skills and aspirations. Employers, on the other hand, benefit from an extensive database of potential candidates, allowing them to efficiently identify and engage with qualified individuals.

## 1.2    Intended Audience

The intended audience for this SRS document is:
- Developers
- Testers
- Users
  - Job seekers
  - Companies
  - Admin

## 1.3    Project Scope

The scope of the project encompasses a comprehensive set of features and functionalities designed to optimize the entire recruitment lifecycle. The platform includes user-friendly interfaces for both job seekers and employers, allowing job seekers to create detailed profiles, upload resumes, and search for relevant job opportunities based on their skills and preferences. For employers, the portal offers a robust system for posting job listings, managing applications, and accessing a vast pool of potential candidates. The search and filter functionality will enhance the matching process, ensuring a more precise alignment of skills and job requirements. The system also incorporates features such as notification, personalized recommendations, and an interactive dashboard to provide users with a seamless and efficient experience.

# 2.    Overall Description

## 2.1    Product Perspective

From a product perspective, the job portal website aims to serve as a cutting-edge and user-centric platform that addresses the distinct needs of both job seekers and employers. The website will offer an intuitive and visually appealing user interface, ensuring a positive user experience for individuals navigating through the job search process and for employers managing recruitment tasks. It is designed with scalability in mind, allowing for seamless expansion as the user base grows. The product also prioritizes mobile responsiveness, recognizing the increasing reliance on mobile devices for job searches. Security measures will be implemented to safeguard user data and ensure the confidentiality

of sensitive information. The job portal website integrates search and matching algorithms to enhance the accuracy of job recommendations, creating a more efficient and personalized user experience. Regular updates and improvements will be part of the product lifecycle, ensuring that the platform remains current and competitive in the dynamic job market landscape.

## 2.2 Product Features

1. Job seeker information management: A centralized platform for storing and managing the job seeker information in the form of their profiles and circulate the details with the company they apply to.

2. Secure access: A secure login system for job seekers and the companies.

3. Job postings: An online platform for companies to post new job opportunities and notify the job seekers about the posted jobs.

4. Profile creation: A platform for job seekers and companies to create their profiles and also to edit the same when the need arises.

5. User-friendly interface: An intuitive and user-friendly interface for easy navigation and use by all types of users.

6. Real-time notifications: A real-time notification system to keep the job seekers updated on the latest job opportunities.

7. Application Timing: Job seekers must apply or de-apply for the company in a limited time specified by the company, after which they cannot apply or pull back the application.

8. Job Description: Job seekers should be able to see the details of the job and its requirements through the detailed description posted by the respective comapany.

9. Search and filter: Job seekers should be able to search and filter out the companies based on their interest like roles in the company, location of the job, salary, etc.

10. Application perquisites: Job seekers can only apply to a job if their profile satisfies the job requirements in terms of skills and experience requirements otherwise they cannot apply for the job.

11. Admin verification: Admin will verify the company registering on the portal and if found genuine he will verify the company else delete its registration.

## 2.3 User Classes and Characteristics

We have 4 user classes:

1. *Job Seeker*

   Users who are seeking job opportunities through the job portal and can view job postings and apply for various job roles.

2. *Company*

   Employers who represent companies that are interested in recruiting candidates through the job portal and can post new jobs.

3. *Admin*

   Users who are responsible for verifying if the companies that are posting a job(s) are genuine or not.

4. *Viewer*

   One who visits the website just as a viewer and hasn't login/ register to the portal.


Characteristics for each user class:

1. Job Seeker
   - Level of access: Job seekers would have access to view job postings and apply for positions through the job portal website.
   - Technical expertise: Job seekers may have varying levels of technical expertise and familiarity with the website, so it is designed to be user-friendly and easy to navigate.
   - Role within the organization: Job seekers are the primary users of the job portal website, and its main purpose is to facilitate their job search process.
   - Frequency of use: Job seekers may use the job portal website frequently during their job search process to view new job posting.

2. Company
   - Level of access: Companies would have access to post job opportunities and view candidate applications through the job portal website.
   - Technical expertise: Employers may have varying levels of technical expertise and familiarity with the website, so it is designed to be user-friendly and easy to navigate.
   - Role within the organization: Companies are external users who interact with the job portal website to recruit candidates for job opportunities.
   - Frequency of use: Companies may use the job portal website frequently during their recruitment process to post new jobs and review candidate applications.

3. Admin
   - Level of access: Admins would have access to manage job postings and communicate with companies and job seekers.
   - Technical expertise: Admins would be expected to have a good understanding of the website and its features.
   - Role within the organization: Admins would be responsible for checking if the companies that are posting jobs are genuine or not.
   - Frequency of use: Admins may use the website frequently to manage job postings.

4. Viewer
   - Level of access: Users have access to all the website functionality except for applying for a job.
   - Technical expertise: The technical expertise of the user is assumed to be zero as the user is completely new to the website and has visited the site to know more about it.
   - Role within the organization: They are the external users who would like to know about the job opportunities available.
   - Frequency of use: They may use the website once or twice as it is used just to know more about the functioning of the job portal.

## 2.4    Operating Environment

1. The website is designed to run on a Node server engine that supports the required programming languages and frameworks.

2. The website requires a NoSQL database management system MongoDB to store job seeker and company data and the job postings.

3. The website needs to integrate with external services, such as email providers to inform the job seekers about the new job postings.

4. The website is secured using appropriate security mechanisms, such as encryption and decryption.

The website's development and maintenance requires a development environment, including a code editor, a version control system, and a testing environment. The deployment process requires a continuous integration/continuous deployment (CI/CD) pipeline to ensure smooth and error-free releases.

## 2.5    Design and Implementation Constraints

**Database**: We have used basic level of MongoDB database which gives us 500MB storage for the web application. This restricted us in collecting every user's resume file. Thus we ask user to input the link of the resume.

**Nodemailer**: We have used nodemailer to send user real-time notifications when a job is posted. This slows down the process of the email notification and we can only email certain number of users.

**Host Portal**: We have hosted our website on free onrender.com platform. This can lead to limited users on the platform.

## 2.6    Assumptions and Dependencies

**Assumptions:**
1. The website will be used to connect job seekers with potential employers for full-time, part-time, and internship positions.
2. Users will be able to create accounts, upload resumes, and apply for jobs through the website.
3. Employers will be able to create accounts, post job openings, and review resumes and applications through the website.
4. The website will need to be compatible with major web browsers.

**Dependencies**:
1. The website will require a database to store user information, job postings, applications, job seeker registration, and company registrations.
2. The website will need to integrate with third-party services, such as email providers.
3. The website will need to be hosted on a reliable and scalable web hosting platform to ensure high availability and performance.
4. The website will need to be developed using appropriate web development tools and technologies, such as HTML, CSS, JavaScript, and a web framework like Node.js and Express.js.

# 3.   Functional and Non-Functional Requirements

## 3.1   Functional Requirements

**General:**

- The system should be able to store and manage all the providedinformation.
- The system should be able to display job recommendations forjob seekers.
- The system should have a blog section.
- The system should have an about us page to know more aboutthe Job fiction.

**For Job seekers:**

- Job seekers should be able to register, log in, and log out fromthe system.
- Job seekers should be able to see their profile and change theirpassword.
- Job seekers should be able to edit their profile.
- Job seekers should be able to search the jobs by job title.
- Job seekers should be able to filter the job posts based on various attributes such as job title, location, Work mode, salaryetc.
- Job seekers should be able to read the job description of the jobpost.
- Job seekers should have the option of applying and unapplyingfor the jobs they are interested in.
- Job seekers should be able to save and unsave the jobs posts forthe future references.
- Job seekers should be able to see the job posts that have beensaved and applied by them.

**For Companies:**

- Companies should be able to register, log in, and log out fromthe system.
- Companies should be able to change their password.
- Companies should be able to post new job posts.
- Companies should be able to post multiple job posts.
- Companies can see the list of applied candidates on the jobpost made by them.
- Companies can also see the candidates profile in candidatelists.

**For Admin:**

- Admin should be able to login and log out of the system.
- Admin should be able to change their password.
- Admin should be able to verify the companies registered to thesystem.
- Admin should be able to add a new admin to the system.

## 3.2    Non-Functional Requirements

**1. Authentication**

- While registering, the system should check to see if a user's credentials match the credentials in a database then the systemsends a verification link in the user's mail id.
- Only after verification, users are able to login into the system.

**2. Scalability -** The system will be used by a huge number of job seekers and companies, so it must be able to handle such a largenumber of users.

**3. Reliability**

- After the due date of the job post, no job seeker can apply inthat job post.
- This will ensure that the job seekers can only apply for the jobsthat are currently active .

**4. Maintainability -** The web application should have the capability of modifications and updates so that the technology used does not get outdated too quickly. It can be easily updated even if the websitedeveloper team changes after the final product's deployment.

**5. Compatibility -** There should be no problems running the website on the latest browser versions as well as some older ones.

**6. Usability -** The UI/UX of the website should be simple yet elegantso that job seekers can filter job posts according to their choice and preferences and other actions easily without any special training. User comfort and easy interaction with the website should be ensured.

**7. Accuracy -** The information that is recorded about the companies and the job seekers that are applied for particular jobs must beaccurate, reliable, and consistent.

**8. Security -** Credentials should not be leaked in a data breach, as it compromises users privacy.

# 4. Use Case Descriptions

## 4.1 Login

➤ Actors: Job Seeker, Company, Admin

➤ Goal: Allow users and administrators to access their accounts by logging into the system.

➤ Pre-conditions:
  - User or Admin has a registered account in the system.

➤ Description:
  1. User navigates to the login page.
  2. Enters valid credentials (username/email and password).
  3. The system verifies the credentials.
  4. If the credentials are valid, the user or admin is successfully logged in and redirected to the respective main page.
  5. If the credentials are invalid, an error message is displayed, and the user or admin is prompted to enter correct information.

➤ Exceptions:
  - If the user or admin doesn't have a registered account, they are directed to the registration page.
  - If there are issues with the login process (e.g., server error), a notification is displayed.

➤ Post-conditions:
  - For a successful login, the user or admin gains access to their account and the main system features.

➤ Related Functional Requirements:
  - The system should securely store and manage user and admin credentials.
  - Successful login grants access to specific user roles and functionalities.

➤ Related Non-Functional Requirements:
  - Security: The login process should adhere to security standards.
  - Usability: The login interface should be user-friendly and intuitive.
  - Reliability: The system should handle login requests reliably.

## 4.2  Register

- ➢ Actors: Job Seeker, Company

- ➢ Goal: Allow users to create a new account in the system.

- ➢ Pre-conditions:
    - User or Company does not have a registered account.

- ➢ Description:
    1. User navigates to the registration page.
    2. Provides required information such as username, email, password, and any other necessary details.
    3. Submits the registration form.
    4. The system verifies the provided information.
    5. If the information is valid, the user or company account is successfully created.
    6. A confirmation message is displayed, and the user is redirected to the login page.

- ➢ Exceptions:
    - If the provided information is incomplete or incorrect, the system prompts the user to correct the details.
    - If the user or company already has a registered account, they are directed to the login page.

- ➢ Post-conditions:
    - For a successful registration, the user or company can proceed to log in with the newly created account.

- ➢ Related Functional Requirements:
    - The system should securely store and manage user and company registration information.
    - Registration forms should include necessary fields for user or company profiles.
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- ➢ Related Non-Functional Requirements:
    - Security: The registration process should adhere to security standards.
    - Usability: The registration interface should be user-friendly and intuitive.
    - Reliability: The system should handle registration requests reliably.

## 4.3  Search and Filter Jobs

➢ Actors: Job Seeker (Unlogged and Logged in)

➢ Goal: Allow users to search and filter job opportunities based on their preferences.

➢ Pre-conditions:
- No login or registration required.
- Any user can access the main page through the landing page.

➢ Description:
1. User enters the landing page and proceeds to the main page.
2. On the main page, the user utilizes the search bar to input job-related queries.
3. After submitting the search, the user is redirected to the jobs page displaying relevant results.
4. The user has the option to set filters to refine the job search.
5. Clicking on a job card provides the user with a detailed description of the selected job.

➢ Exceptions:
- If the search query returns no results, a message informs the user of no matching jobs.
- Incomplete or incorrect search queries prompt the user to refine their search.

➢ Post-conditions:
- The user views a list of jobs matching their search criteria.
- Detailed job descriptions are accessible by clicking on job cards.

➢ Related Functional Requirements:
- The search functionality should accurately match user queries with job listings.
- Filters should effectively narrow down search results based on user preferences.
- Job cards should provide essential details like job title, company, and a brief description.

➢ Related Non-Functional Requirements:
- Usability: The search and filter features should be intuitive and user-friendly.
- Accuracy: The displayed job results should accurately reflect the user's search criteria.

## 4.4 Save Jobs

- ➢ Actors: Logged in Job Seeker

- ➢ Goal: Allow job seekers to save interesting job opportunities for later viewing.

- ➢ Pre-conditions:
    - Job seeker is logged into the system.

- ➢ Description:
- ➢ Job seeker logs into the system and navigates to the detailed description of a job.
- ➢ On the job details page, the job seeker clicks on a "Save" button associated with the job card.
- ➢ The system saves the job to the job seeker's profile for future reference.

- ➢ Exceptions:
    - If the job seeker is not logged in, the system prompts them to log in before saving jobs.
    - If there is an issue with saving the job, the system notifies the user of the error.

- ➢ Post-conditions:
    - The job is successfully saved to the job seeker's profile.

- ➢ Related Functional Requirements:
    - The system should provide a "Save" button on each job card in the detailed job description view.
    - The saved jobs should be accessible through the job seeker's profile.

- ➢ Related Non-Functional Requirements:
    - Usability: The process of saving jobs should be straightforward and user-friendly.
    - Reliability: The system should reliably store and retrieve saved job information.

## 4.5  Apply in a job

➢ Actors: Logged in Job Seeker

➢ Goal: Enable job seekers to apply for a job and manage their applications.

➢ Pre-conditions:
  - Job seeker is logged into the system.
  - Job seeker has completed their profile.

➢ Description:
  1. Job seeker logs into the system and navigates to the detailed description of a job.
  2. The system checks if the job seeker has completed their profile.
  3. If the profile is complete, the job seeker clicks on the "Apply" button to submit an application.
  4. The system verifies that the job seeker's profile details match the job requirements.
  5. The job seeker has the option to unapply by clicking on an "Unapply" button if needed.
  6. All application changes are reflected in real-time on the company side.

➢ Exceptions:
  - If the job seeker is not logged in, the system prompts them to log in before applying.
  - If the profile is incomplete, the system prompts the job seeker to complete it before applying.
  - If the job seeker's profile details don't match the job requirements, the system notifies the user.

➢ Post-conditions: The job seeker successfully applies or unapplies for the job.

➢ Related Functional Requirements:
  - The system should provide "Apply" and "Unapply" buttons on the job details page.
  - Changes in application status should be immediately visible on the company side.
  - Profile completion is mandatory for job application.

➢ Related Non-Functional Requirements:
  - Usability: The application process should be intuitive and user-friendly.
  - Real-time Updates: Application status changes should be reflected instantly.
  - Reliability: The system should handle application processes reliably.

## 4.6  Recommendations

- ➢ Actors: Logged in Job Seeker

- ➢ Goal: Provide job recommendations based on the job seeker's filled profile details.

- ➢ Pre-conditions:
    - - Job seeker is logged into the system.
    - - Job seeker has completed their profile.

- ➢ Description:
    1. Job seeker logs into the system.
    2. The system checks if the job seeker's profile is complete.
    3. If the profile is complete, the job seeker navigates to the "Recommendations" section.
    4. The system generates job recommendations based on the filled profile details.
    5. Recommendations are displayed to the job seeker for potential job matches.

- ➢ Exceptions:
    - - If the job seeker is not logged in, the system prompts them to log in.
    - - If the profile is incomplete, the system notifies the job seeker to complete it for recommendations.

- ➢ Post-conditions: Job seeker views personalized job recommendations.

- ➢ Related Functional Requirements:
    - - The system should analyze profile details to generate accurate job recommendations.
    - - Recommendations are based on the completeness of the job seeker's profile.

- ➢ Related Non-Functional Requirements:
    - - Usability: The recommendations feature should be user-friendly and accessible.
    - - Accuracy: Job recommendations should align with the job seeker's skills and preferences.
    - - Real-time Updates: Recommendations should be dynamically updated based on profile changes.

## 4.7 Manage Profile

- ➢ Actors: Logged in Job Seeker

- ➢ Goal: Allow job seekers to manage and update their profile information.

- ➢ Pre-conditions:
    - Job seeker is logged into the system.

- ➢ Description:
    1. Job seeker logs into the system.
    2. From the side bar, the job seeker selects "View Profile" to access their profile details.
    3. The job seeker updates information such as personal details, password, work experience, projects, resume, profile photo, etc.
    4. After making changes, the job seeker clicks on the "Save Changes" button to update the profile.

- ➢ Exceptions:
    - If the job seeker is not logged in, the system prompts them to log in.
    - Incomplete or incorrect information prompts the job seeker to correct the details before saving.

- ➢ Post-conditions: The job seeker successfully updates and saves changes to their profile.

- ➢ Related Functional Requirements:
    - The system should provide an editable form for job seekers to manage their profile.
    - Changes made to the profile should be saved and reflected in real-time.

- ➢ Related Non-Functional Requirements:
    - Usability: The profile management process should be user-friendly and intuitive.
    - Real-time Updates: Changes to the profile should be immediately visible to the job seeker.
    - Data integrity: The system should validate and store profile information accurately.

## 4.8 Post a Job

> Actors: Company

> Goal: Enable companies to post job opportunities after verification by the admin.

> Pre-conditions:
> - The company is registered to the system.
> - The company needs to be verified by the admin.

> Description:
> 1. The company logs into the system.
> 2. Navigates to the "Post a Job" section.
> 3. The system displays a form for the company to enter details about the job opening.
> 4. The company fills in the required fields and submits the job posting to the system.
> 5. The system saves the job posting.
> 6. The job posting is pending verification by the admin.

> Exceptions:
> - If the company is not registered, the system prompts the company to register.
> - If the company is not verified, the system notifies the company that the job posting is pending verification.
> - If any required fields are left blank, the system prompts the company to fill in the missing information.

> Post-conditions:
> - The job posting is saved in the system but pending admin verification.

> Related Functional Requirements:
> - The system should provide a "Post a Job" section for registered companies.
> - Admin verification is required before the job posting becomes publicly visible.
> - Required fields in the job posting form must be filled for submission.

> Related Non-Functional Requirements:
> - Usability: The job posting process should be user-friendly for companies.
> - Accuracy: Admin verification ensures the legitimacy of the job postings.

## 4.9 Applied Candidates

➤ Actors: Company

➤ Goal: Allow companies to view a list of candidates who have applied to their posted jobs.

➤ Pre-conditions:
- The company is logged into the system.
- The company has posted jobs.

➤ Description:
1. The company logs into the system.
2. Navigates to the "View Posted Jobs" section.
3. The system displays a list of jobs posted by the company.
4. The company clicks on a specific posted job to view applied candidates.
5. The system presents a list of candidates who have applied to the selected job.
6. The company clicks on a candidate to view full details.

➤ Exceptions:
- If the company is not logged in, the system prompts them to log in.
- If there are no posted jobs, the system informs the company to post jobs first.
- If there are no applied candidates, a message informs the company of no applications.

➤ Post-conditions:
- The company successfully views the list of candidates who applied to a specific job.
- The company can view the full details of a particular candidate.

➤ Related Functional Requirements:
- The system should maintain a record of applied candidates for each posted job.
- Full candidate details should be accessible to the company.

➤ Related Non-Functional Requirements:
- Usability: The interface for viewing applied candidates should be user-friendly.
- Real-time Updates: The system should display current and up-to-date application information.

## 4.10 Verify Companies

- ➤ Actors: Admin

- ➤ Goal: Allow the admin to verify and manage the status of registered companies.

- ➤ Pre-conditions:
  - Admin is logged into the system.

- ➤ Description:
  1. Admin logs into the system.
  2. Navigates to the "Verify Companies" section.
  3. The system displays a list of verified and unverified companies.
  4. Admin can select the "Unverified Companies" list.
  5. The system presents a detailed registration information view for each unverified company.
  6. Admin clicks on a specific company to view detailed registration info.
  7. Admin verifies the company and updates the verification status.
  8. The system notifies the company of the verification status change.

- ➤ Exceptions:
  - If the admin is not logged in, the system prompts them to log in.
  - If there are no unverified companies, a message informs the admin of no pending verifications.

- ➤ Post-conditions:
  - The company is successfully verified by the admin.
  - The company receives a notification about the verification status change.
  - After successful verification, the company can log in.

- ➤ Related Functional Requirements:
  - The system should provide a "Verify Companies" section for the admin.
  - Detailed registration information for unverified companies should be accessible to the admin.

- ➤ Related Non-Functional Requirements:
  - Usability: The verification process should be straightforward and user-friendly for the admin.
  - Notification: The system should notify companies of their verification status change.
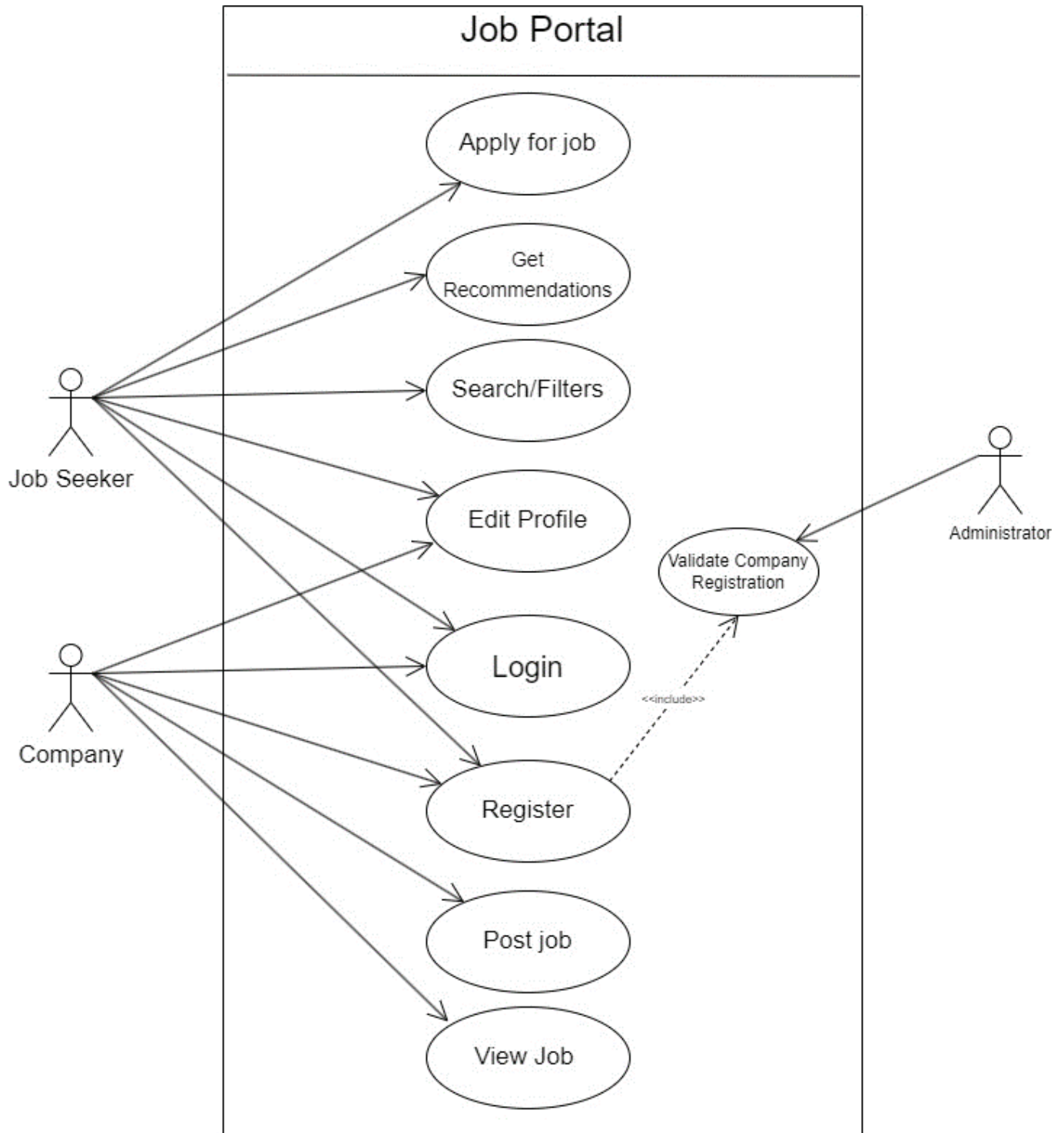
# 5.    User Stories

| User Story ID | Front of The Card | Acceptance Criteria |
|:---:|:---|:---|
| *US01* | As a Job Seeker, I want to create a profile on the job portal, so that I can access personalized features. | - The registration page should be accessible from the main page.<br>- The registration form should include fields for username, email, password, etc.<br>- After successful registration, the user should receive a confirmation email. |
| *US02* | As a Job Seeker, I want to search for jobs based on preferences, So that I can find positions relevant to me. | - The search bar should be prominently displayed on the job search page.<br>- Users can enter one or more keywords in the search bar.<br>- Search results are updated dynamically as keywords are entered. |
| *US03* | As a Job Seeker, I want to save interesting job opportunities, So that I can review and apply to them later. | - The system should provide a 'Save' button on each job card in the detailed job description view.<br>- The saved jobs should be accessible through the job seeker's profile.<br>- The saved jobs list should be easily navigable from the user's profile. |
| *US04* | As a Job Seeker, I need to apply for jobs through the portal, So that I can submit my application easily. | - The job application form should include necessary fields like resume upload, cover letter, etc.<br>- Confirmation messages should be displayed after successful submission of the application.<br>- If there are issues with the application submission, the system should notify the user. |
| *US05* | As a Job Seeker, I want to see a list of jobs I've applied to, So that I can track the status of my applications. | - The system should display a list of jobs the user has applied to.<br>- The list should include details like job title, company, and application status.<br>- The system should provide an option to view more details about each application. |

| US06 | As a Job Seeker, I want to receive personalized job recommendations, So that I can discover relevant opportunities. | - Recommendations should be based on the user's filled profile details.<br>- Incomplete profiles should not generate recommendations.<br>- The feature is limited to logged-in users. |
|------|------|------|
| US07 | As a Job Seeker, I want to manage my profile information, So that I can keep it updated. | - The profile management section should include options to update personal details, work experience, projects, resume, profile photo, etc.<br>- Changes made should be saved successfully. |
| US08 | As a Job Seeker, I want to view the details of a job, So that I can make an informed decision to apply. | - The job details page should display comprehensive information about the job, including title, description, requirements, etc.<br>- A 'Apply Now' button should be available for easy application. |
| US09 | As a Company, I want to create a profile on the job portal, So that I can attract potential candidates. | - The company profile creation form should include fields for company name, industry, description, etc.<br>- After profile creation, the company should receive a confirmation email. |
| US10 | As a Company, I want to post detailed job listings on the portal, So that potential candidates can apply. | - The 'Post a Job' section should be accessible from the company dashboard.<br>- The job posting form should include fields for job title, description, requirements, etc.<br>- The system should save the job posting successfully. |
| US11 | As a Company, I want to view a list of candidates who applied to my jobs, So that I can review their profiles. | - The system should display a list of candidates who applied to a specific job.<br>- The list should include details like candidate name, skills, and application status.<br>- The system should provide an option to view more details about each candidate. |

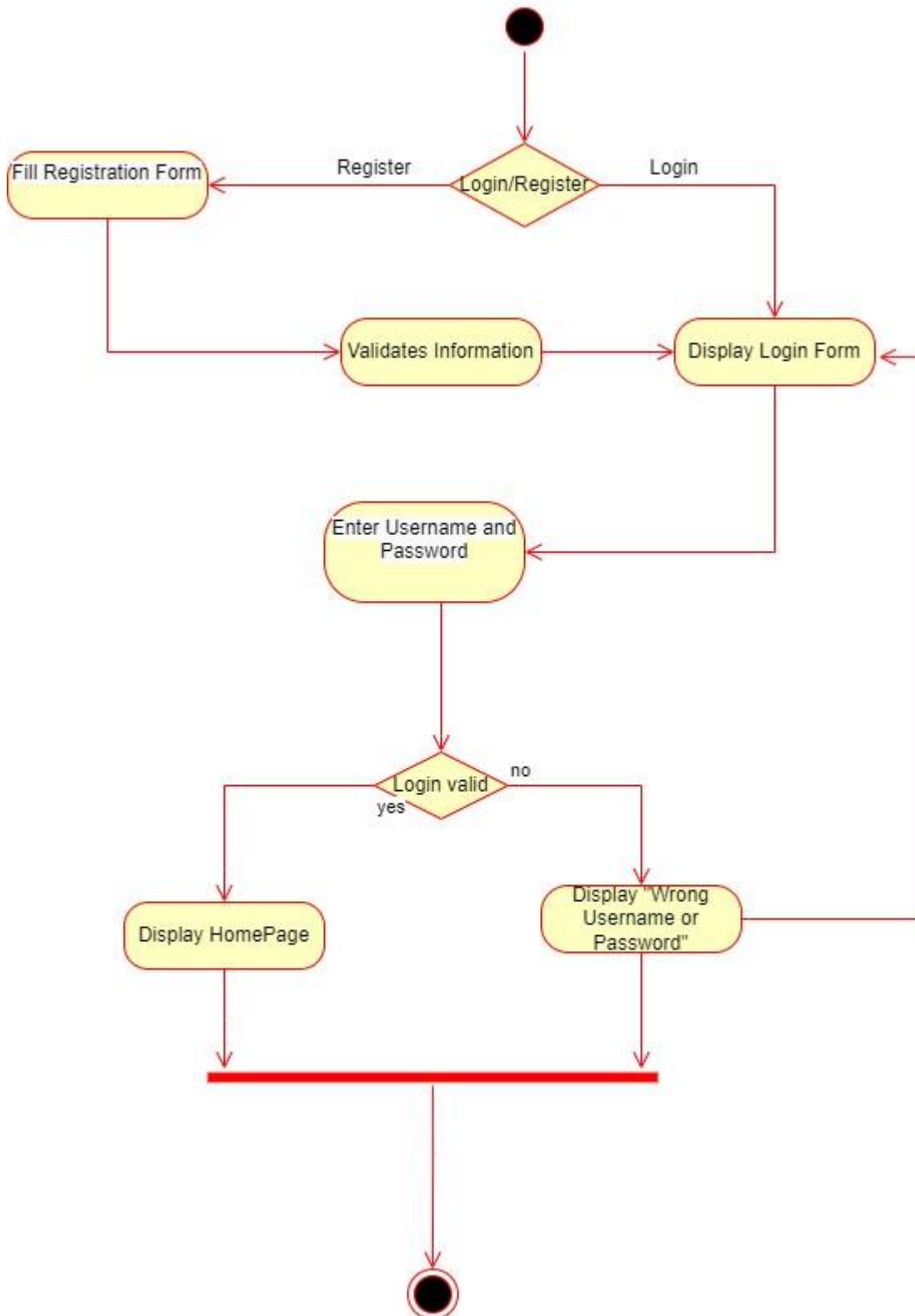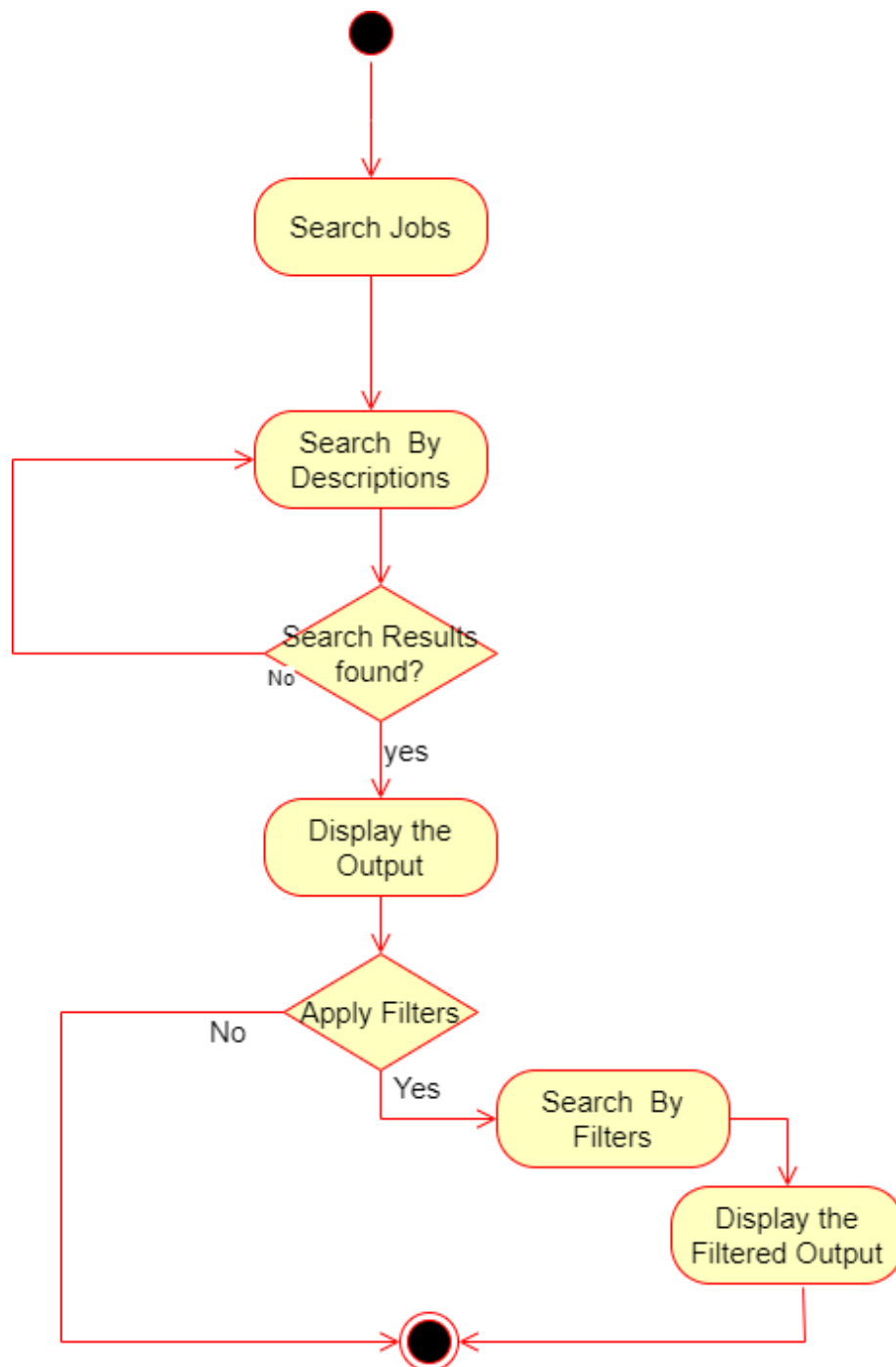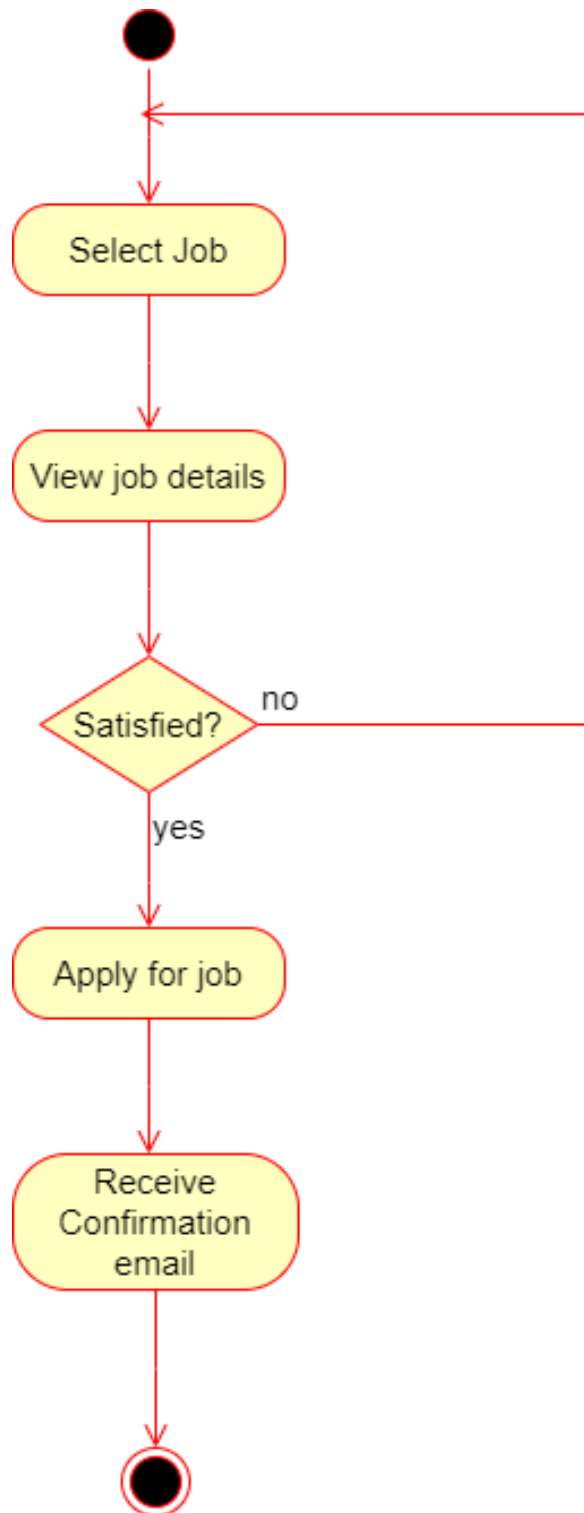| US12 | As a Company, I want to view a list of jobs I've posted, So that I can manage my job listings. | - The system should display a list of jobs posted by the company.<br>- The list should include details like job title, description, and application status.<br>- The system should provide an option to edit or delete job postings. |
|------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US13 | As an Admin, I want to view a list of registered companies, So that I can manage their verification. | - The 'Verify Companies' section should be accessible from the admin dashboard.<br>- The system should display a list of verified and unverified companies.<br>- Admin should be able to view detailed registration information for unverified companies. |
| US14 | As an Admin, I want to verify company profiles on the portal, So that only legitimate companies can create job listings. | - Admin should be able to view unverified companies' detailed registration information.<br>- Admin should have the authority to verify companies.<br>- Verified companies should be able to create job listings. |
| US15 | As an Admin, I want to receive notifications of new company registrations, So that I can promptly manage their verification. | - The system should send notifications to the admin when a new company registers.<br>- The notification should include essential details about the company for verification purposes. |

# Appendix A: Analysis Models

**Use Case Diagram**
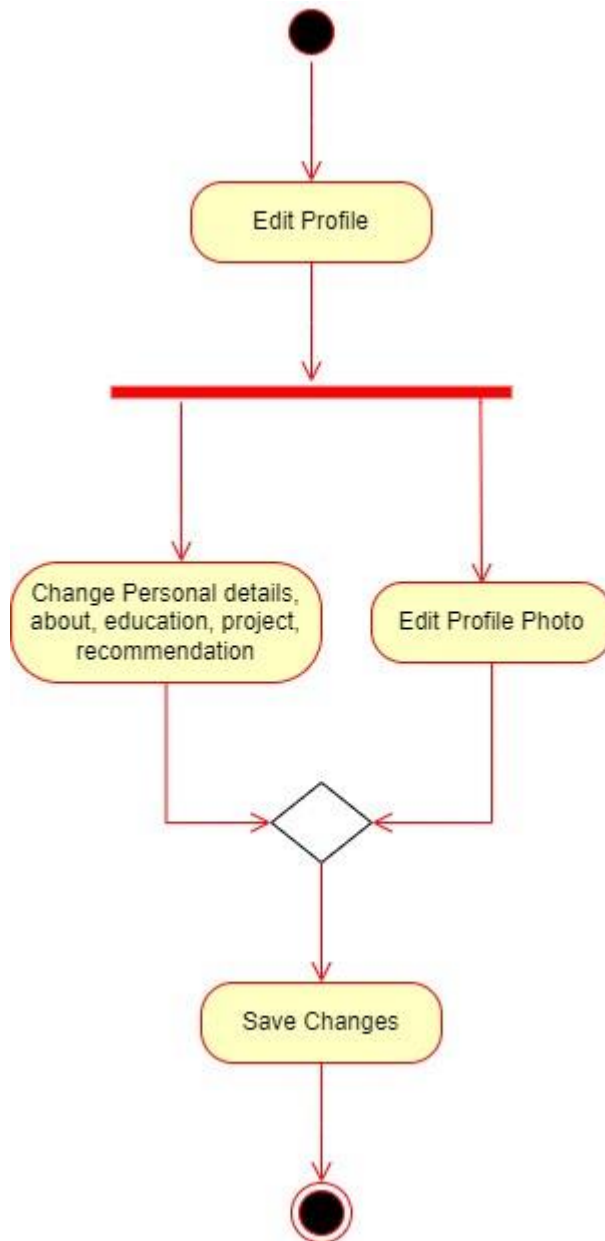
## Activity Diagram

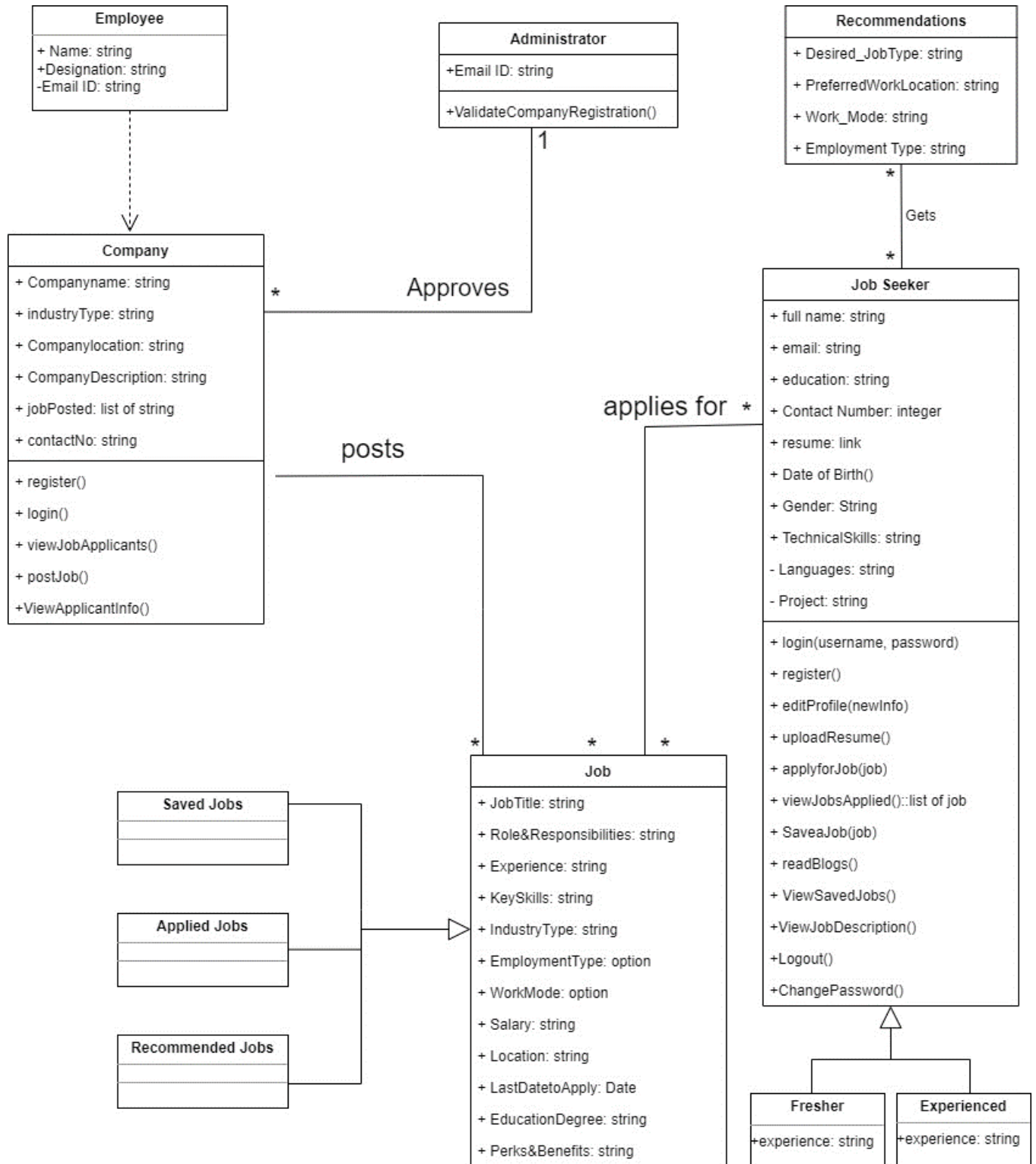**Login/Register**

**Search and Filter**

**Job Application**

**Edit Profile**

# Class Diagram

**Employee**
| |
|---|
| + Name: string |
| +Designation: string |
| -Email ID: string |

**Administrator**
| |
|---|
| +Email ID: string |
| |
| +ValidateCompanyRegistration() |

1

**Recommendations**
| |
|---|
| + Desired_JobType: string |
| + PreferredWorkLocation: string |
| + Work_Mode: string |
| + Employment Type: string |

*

Gets

*

**Company**
| |
|---|
| + Companyname: string |
| + industryType: string |
| + Companylocation: string |
| + CompanyDescription: string |
| + jobPosted: list of string |
| + contactNo: string |
| |
| + register() |
| + login() |
| + viewJobApplicants() |
| + postJob() |
| +ViewApplicantInfo() |

* Approves

posts

**Job Seeker**
| |
|---|
| + full name: string |
| + email: string |
| + education: string |
| + Contact Number: integer |
| + resume: link |
| + Date of Birth() |
| + Gender: String |
| + TechnicalSkills: string |
| - Languages: string |
| - Project: string |
| |
| + login(username, password) |
| + register() |
| + editProfile(newInfo) |
| + uploadResume() |
| + applyforJob(job) |
| + viewJobsApplied()::list of job |
| + SaveaJob(job) |
| + readBlogs() |
| + ViewSavedJobs() |
| +ViewJobDescription() |
| +Logout() |
| +ChangePassword() |

applies for  *

**Saved Jobs**
| |
|---|
| |
| |

**Applied Jobs**
| |
|---|
| |
| |

**Recommended Jobs**
| |
|---|
| |
| |

*    *    *

**Job**
| |
|---|
| + JobTitle: string |
| + Role&Responsibilities: string |
| + Experience: string |
| + KeySkills: string |
| + IndustryType: string |
| + EmploymentType: option |
| + WorkMode: option |
| + Salary: string |
| + Location: string |
| + LastDatetoApply: Date |
| + EducationDegree: string |
| + Perks&Benefits: string |

**Fresher**
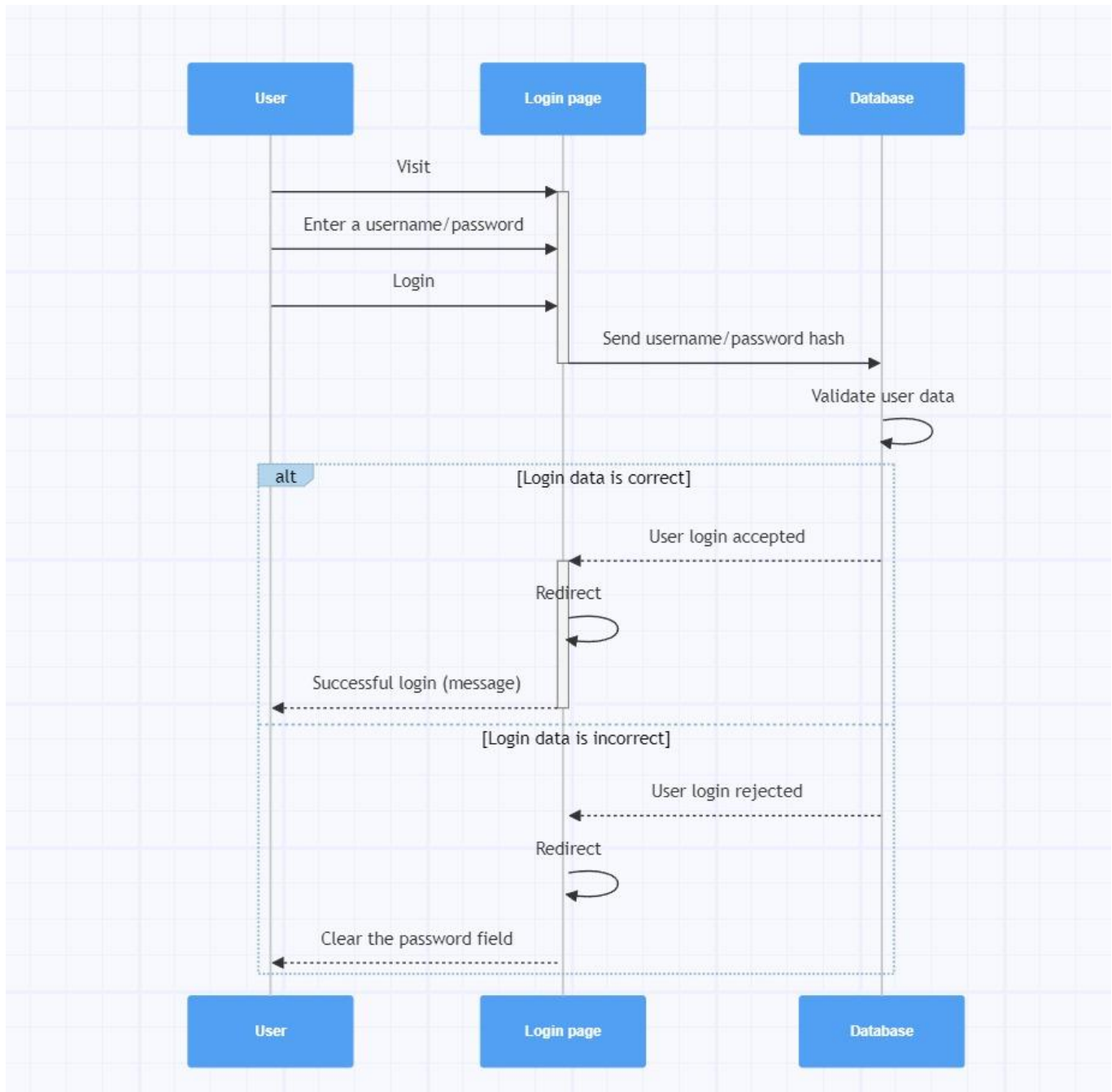| |
|---|
| +experience: string |

**Experienced**
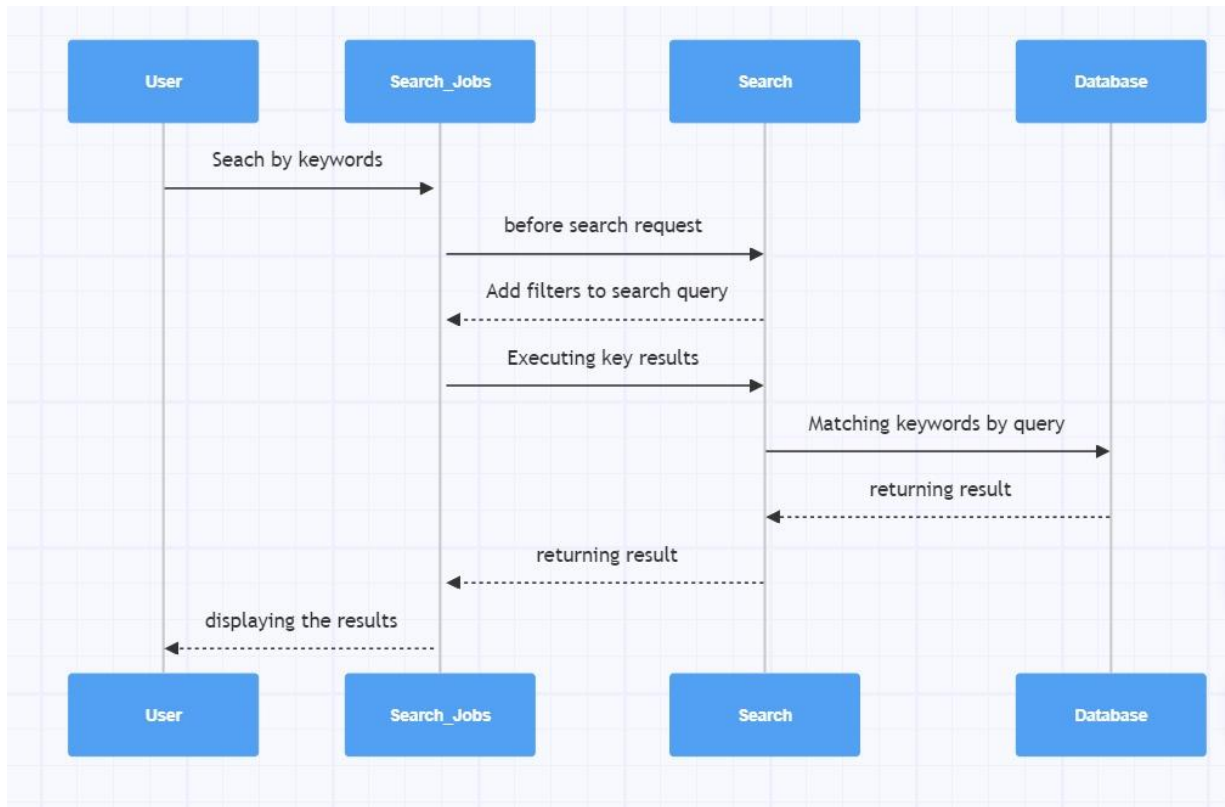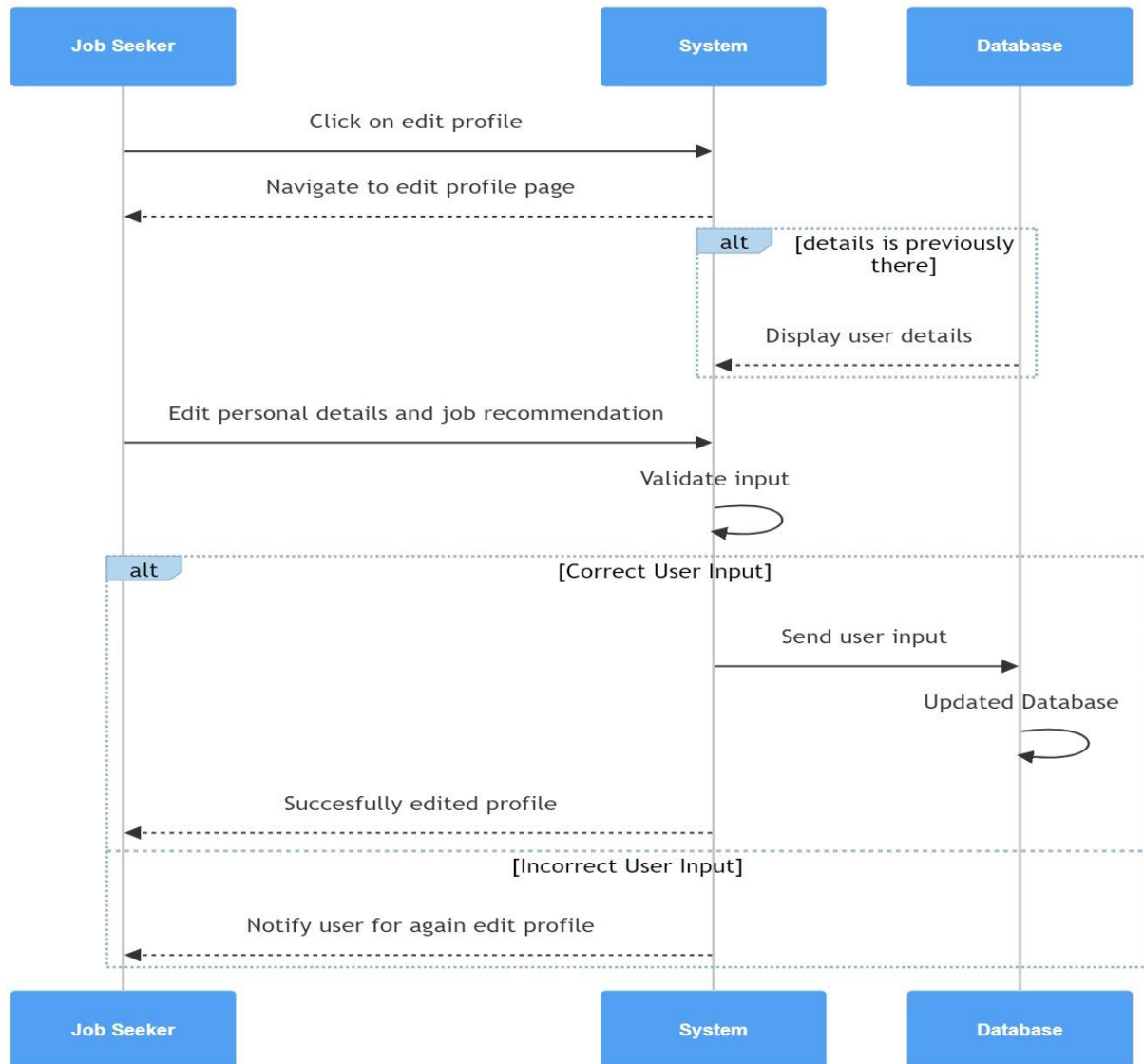| |
|---|
| +experience: string |

## Sequence Diagram:
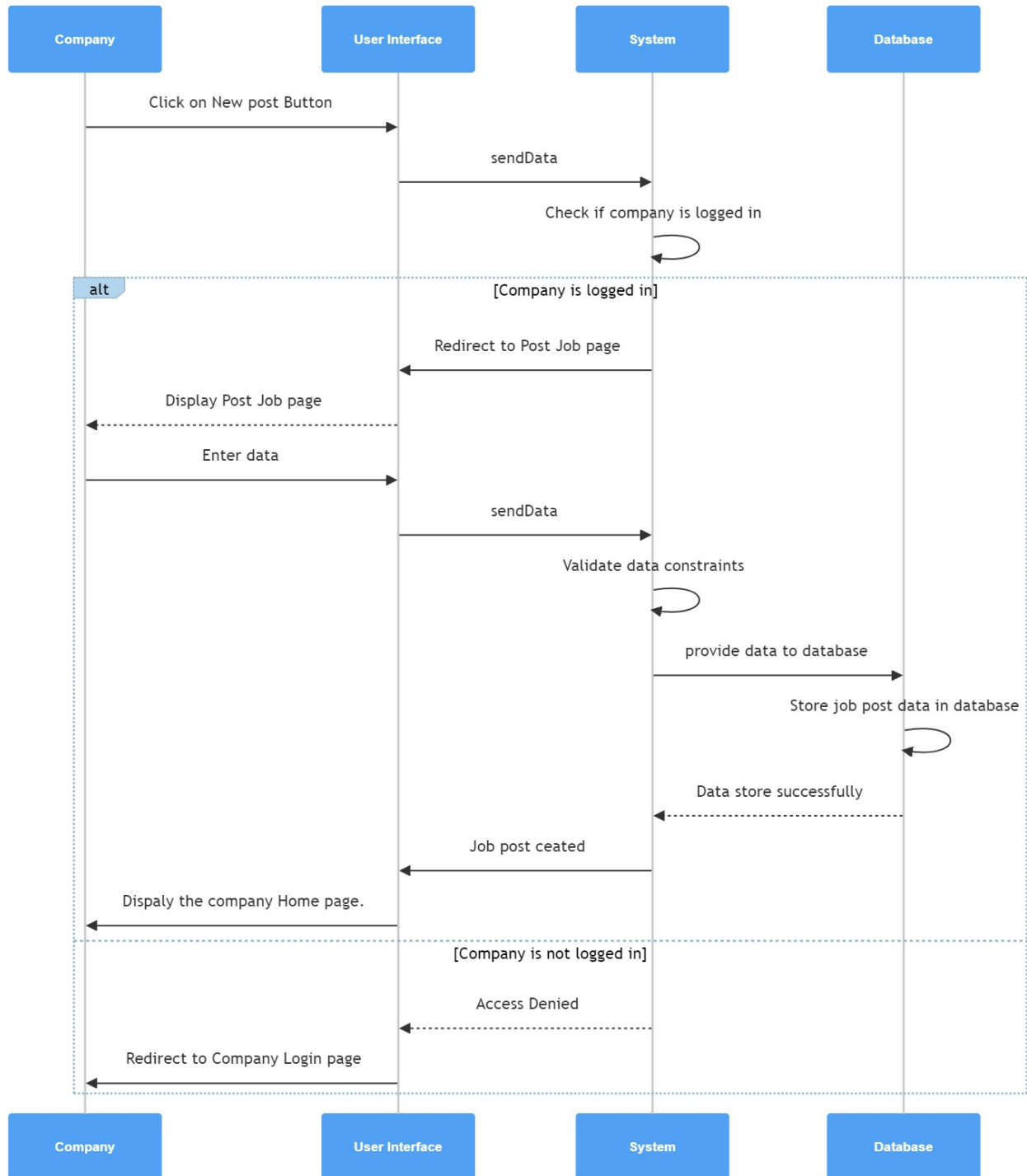
## Login/Register
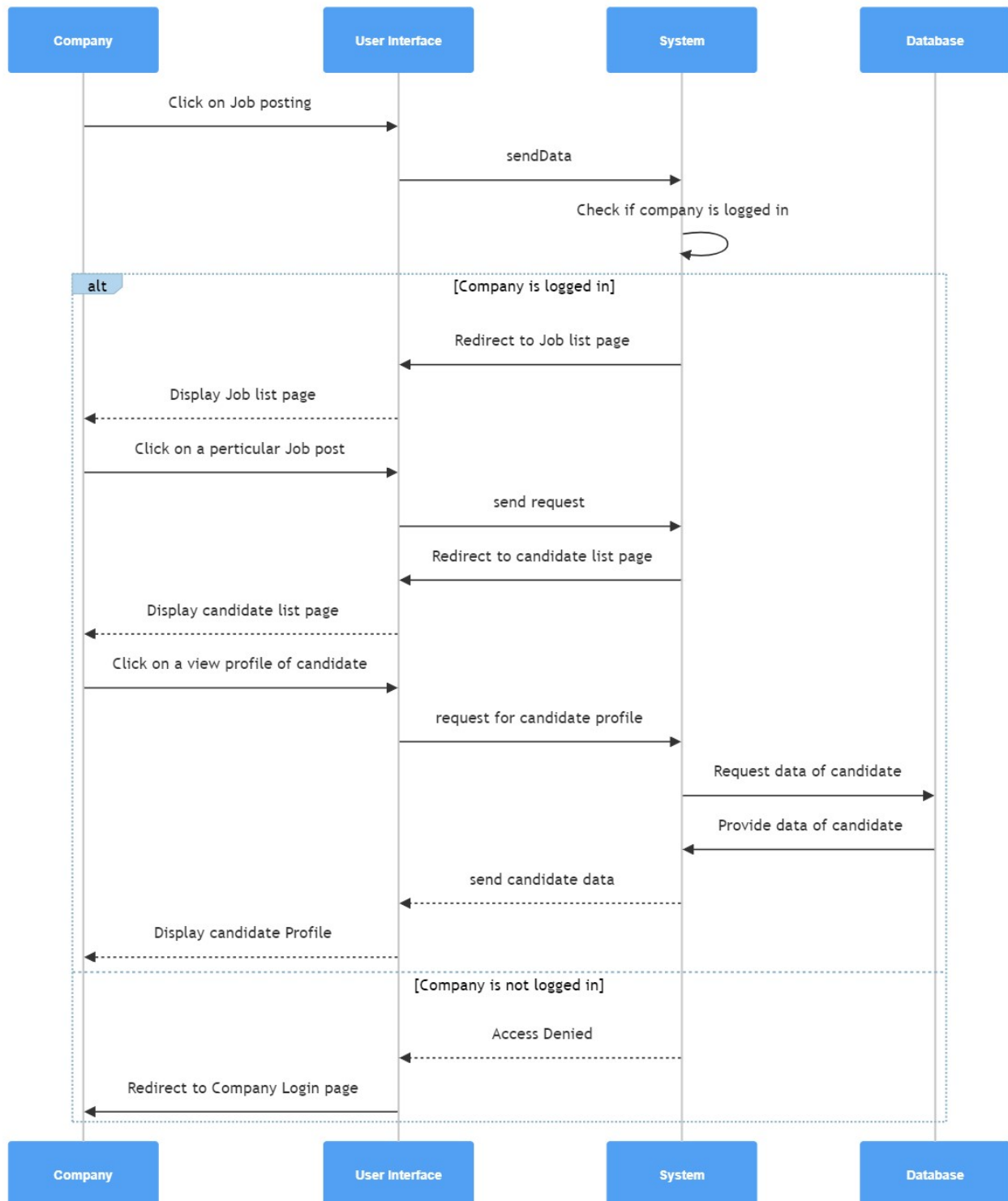
## Search and Filter

# Edit Profile

# Apply for Job
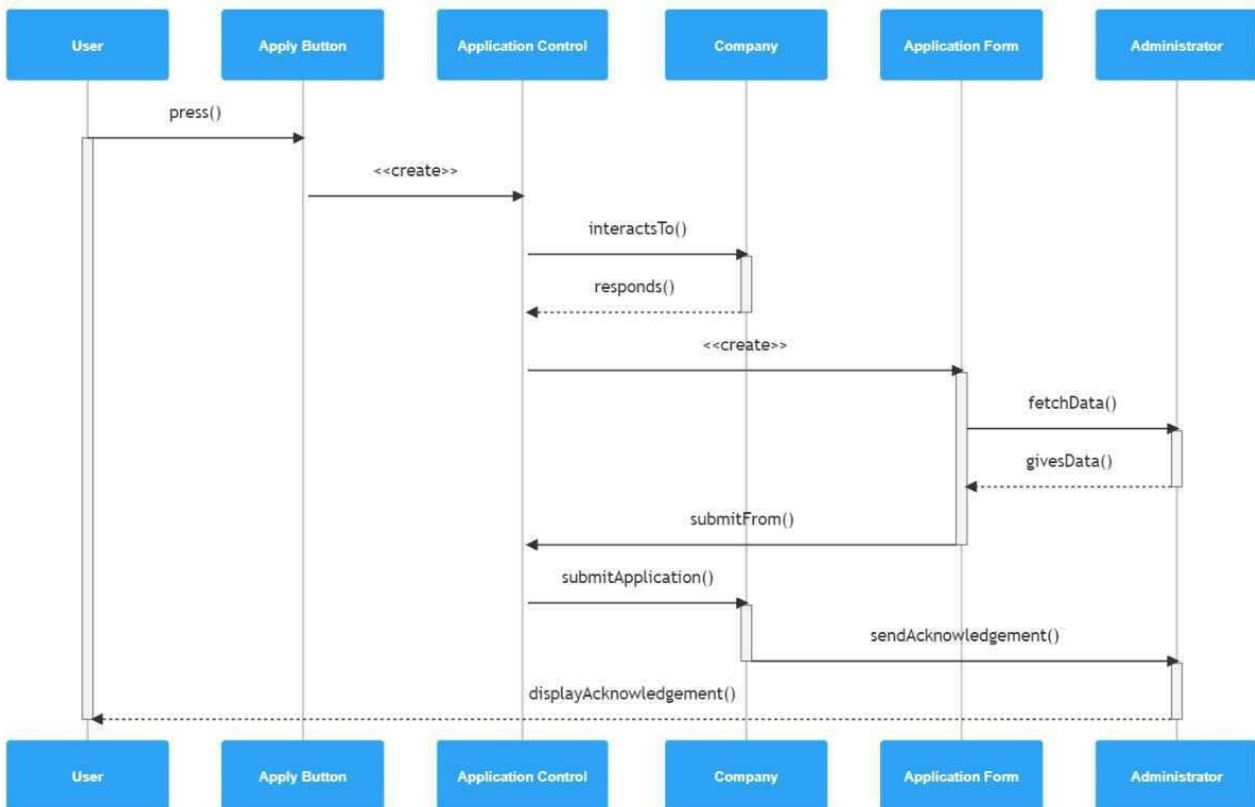
## Company Verification from Administrator

## Post a Job

# View Job Posting



Company | User Interface | System | Database

Click on Job posting

sendData

Check if company is logged in

alt

[Company is logged in]

Redirect to Job list page

Display Job list page

Click on a perticular Job post

send request

Redirect to candidate list page

Display candidate list page

Click on a view profile of candidate

request for candidate profile

Request data of candidate

Provide data of candidate

send candidate data

Display candidate Profile

[Company is not logged in]

Access Denied

Redirect to Company Login page

Company | User Interface | System | Database

# Appendix B: Issues List

## Requirements not implemented

- Interview Scheduling:
  - According to the interview timing, there should be a video conference call on the website at the time of the interview.
- Job Offer:
  - A functionality to offer the job via the job portal instead of the company offering it to the job seekers who registered from our portal.
- Job Verification:
  - We have added the functionality of company verification by the admin at the time when company registers. But the functionality to verify the jobs posted can be implemented.
- Data Analysis:
  - A system for tracking and analyzing job seeker information and recruitment trends, allowing for the job portal to spot trends and identify areas for improvement.
- Resume Builder:
  - A tool for job seekers to create and manage their resumes, which can be made available to recruiters.