

CSE 471 Lab Project

Final Report

Job Listing Website

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A brief introduction about our project

Our Job listing website is an online platform that enables job seekers to search and apply for available job opportunities, while also allowing employers to post job openings to attract potential candidates. Our website offers various search tools and filters, such as location, industry, experience level, and job type, to help users narrow down their search and find relevant job postings. Additionally, the goal of our job listing website is to simplify the job search process for both job seekers and employers by providing a centralized platform that connects them. By doing so, our job listing website is to facilitate the job search process for both job seekers and employers by providing a centralized, easy-to-use platform for job-related activities.

Functional Requirements

1. Account related requirements:

- a. There will be three types of accounts. One type is for users who want to get a job. Another type is for companies that want to post jobs to hire people. Last one is the Admin accounts. Admin accounts can not be created and can only be assigned.
- b. Users will need to upload their NID to verify their account. If the user does not verify their account in 7 days then the account will be deleted.
- c. When creating an account there will be some required and some optional fields that need to be filled for the users and the company. Such as it is optional to add a picture for your company but it is mandatory to add company name.
- d. A security question with an answer will be asked for further verification if the user forgets his password.

2. Homepage and Job Listings:

- a. Latest jobs will be shown at the homepage along with a navbar with a dropdown menu showing main job categories.
- b. Clicking the job listing button will take the user to another page showing all the available jobs.
- c. Users can sort the jobs by latest, highest paid and users can also search for jobs.
- d. Users can filter salary range and locations.
- e. Users can filter part-time and full time jobs separately.
- f. For the homepage, there will be a live counter of how many jobs are currently vacant.
- g. There will be a section where few tutorials will be available on how to make a CV, create a portfolio, how to complete payments etc.

3. User side:

- a. Users can edit their profile whenever they want, such as changing their email and password.
- b. Users will not be able to apply for any jobs before completing the user profile. Their user profile will need some sort of verification such as NID, University Grade Sheet, Any type of government id.
- c. Users can make a portfolio of their own. When someone visits their profile this portfolio will be shown at first.
- d. Users will be able to click on any jobs that are hiring and their information will be sent to the company.
- e. Users need to upload their CV while applying for jobs.
- f. Users will get a notification in their email after their application gets accepted.
- g. Users can see all of the companies they have applied to.
- h. Users can bookmark their favorite company.

4. Company side:

- a. Companies can post jobs when they are hiring. This will include the requirements for applying for the job, hiring expiration date etc.
- b. Companies can see and search any user and they will be able to contact him through a messaging system.
- c. Company can see how many applicants they have got and it will be shown as the latest by default.
- d. Companies will be able to shortlist or reject any applicants.

5. Admin Panel:

- a. The admin can see how many jobs have been posted, they can also see how many users and how many companies there are. In short, overall stats of the website.
- b. Admin can remove any users or company with prior notice.
- c. Any type of jobs posted by the company will go to the admin panel and the admin needs to approve them to be displayed on the website.
- d. Users and companies can send messages to the admins for direct help support.

6. Website Revenue:

- a. A company will need to pay a fee when posting a job hiring post.
- b. Since users do not need to pay to apply for a job or to use the website, the website will utilize an ads system to gain revenue.
- c. Companies can pay revenue through bkaash.

Non-Functional Requirements:

1. Database:

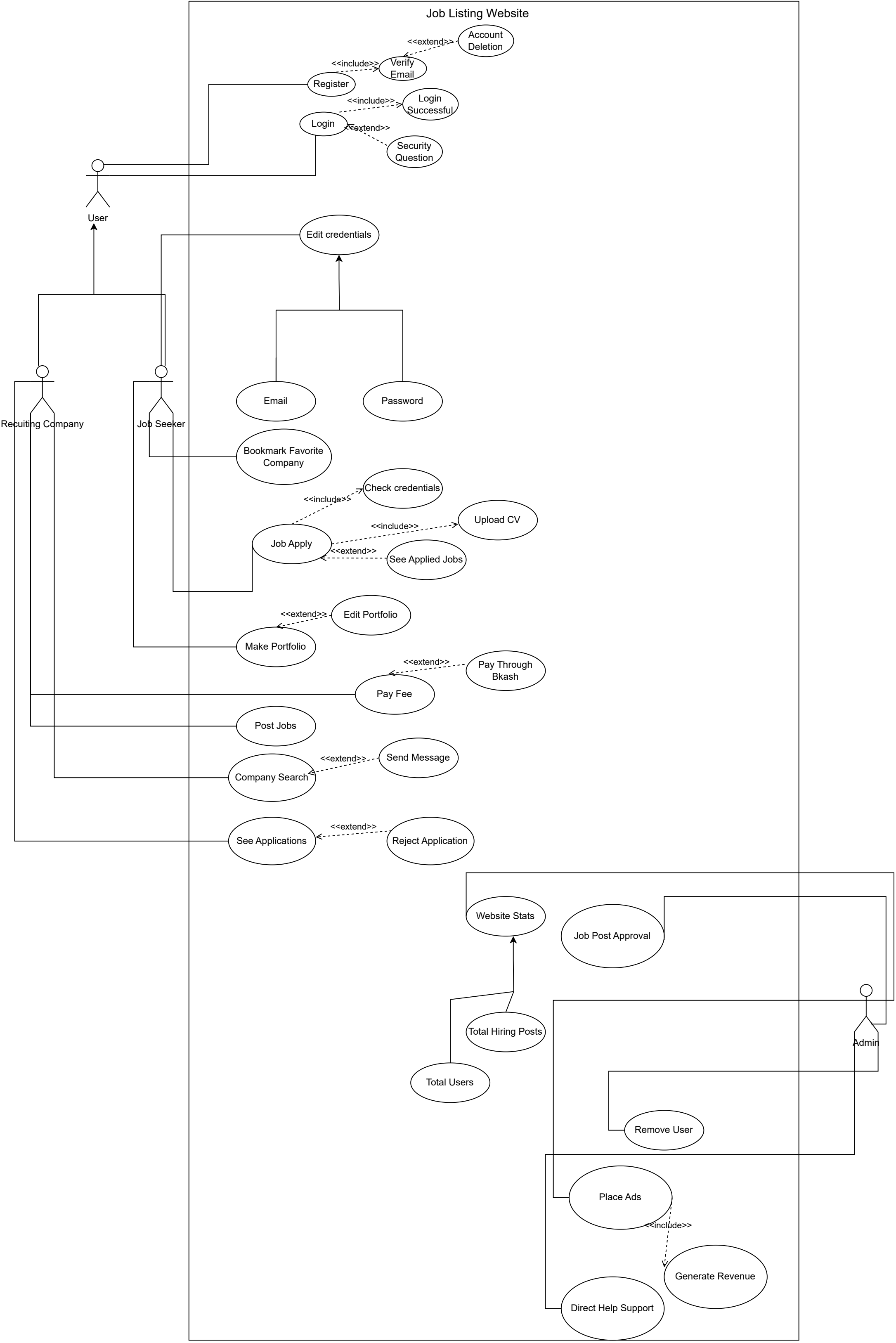
- a. Mainly Mysql will be used to store all of the job profiles of users, accounts, The mysql will be password protected
- b. Sensitive data such as user NID will be stored by md5 128 bit encryption.
- c. User login will be done through JWT, Jason web token based authentication.

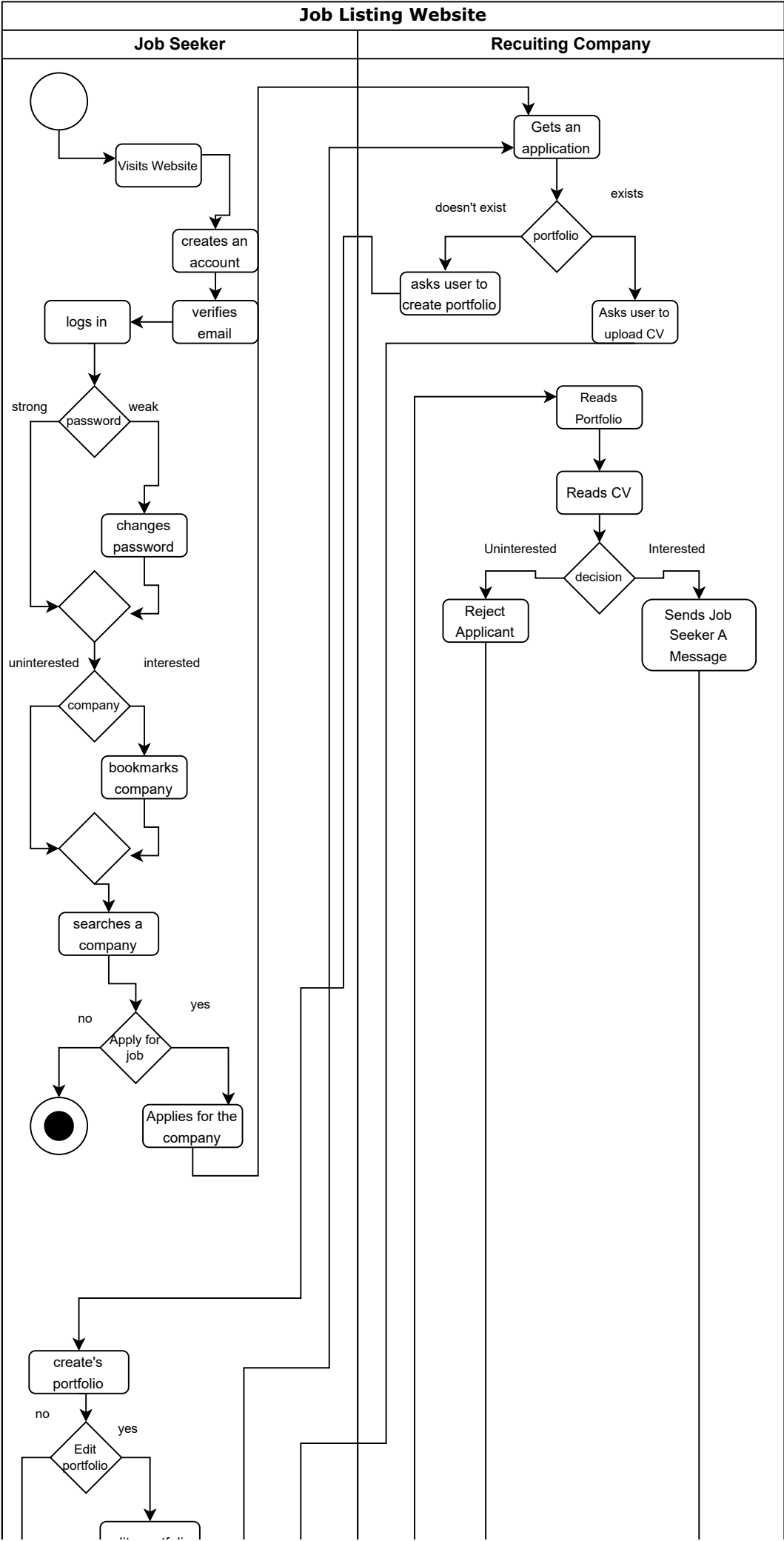
2. Company side:

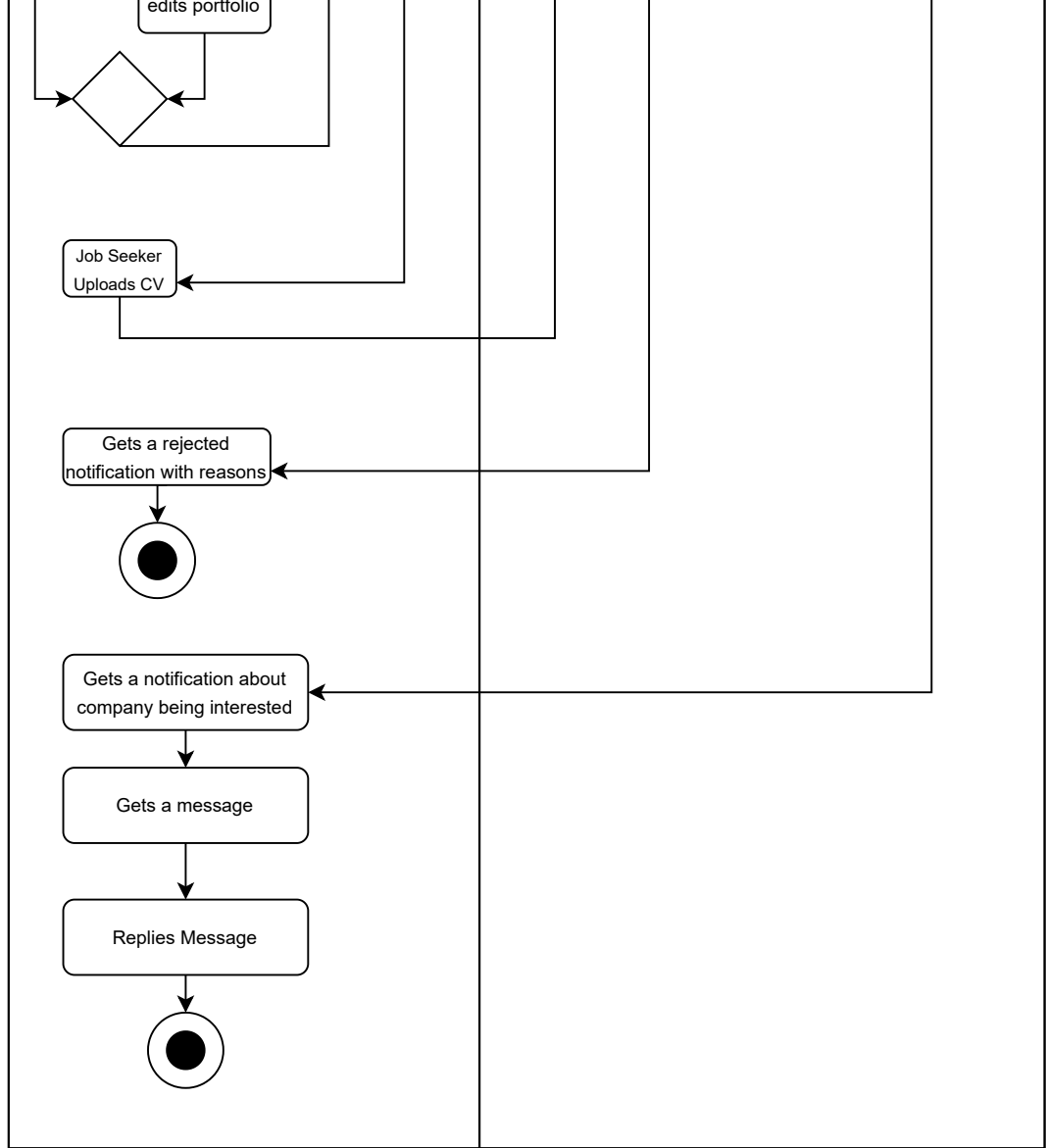
- a. Company will only be able to post 3 job hiring posts. For further posting, they will have to inform the admin and they will be required to pay a fee for posting more than 3 job hiring posts.

3. User side:

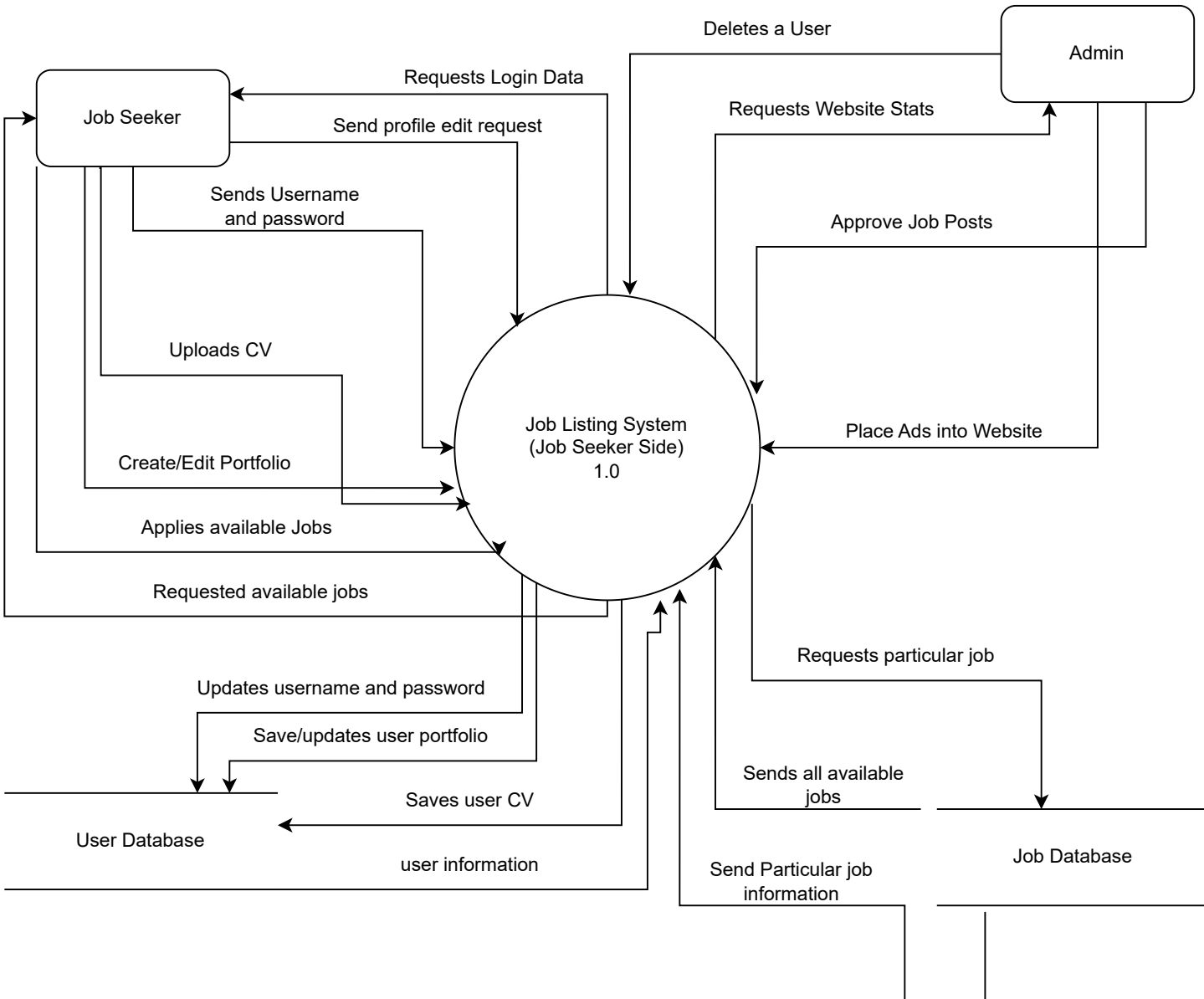
- a. There will be a limitation of how many jobs a user can apply at a day.
- b. A user will not be able to message a company directly unlike the company, but they will be able to collect the company's email address for communication.
- c. Users can store their CV into their profile but there will be a file size limitation to the pdf.
- d. There will be a word limitation on the user portfolio.







Job Listing System Level 0



Job Listing System Level 1

