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Software Requirement Specification (SRS)

Introduction

The Online Job Portal is a web-based platform designed to connect job seekers with potential employers. The platform aims to provide job seekers with a centralized location to search for job vacancies, upload their resumes and transcripts, and apply for jobs.

Companies, on the other hand, can use the platform to post job vacancies, view resumes and transcripts of job applicants, and manage their job postings. The platform also has an administrative panel where the admin can approve users and companies, view registered users and companies, and manage the platform.

The platform will be developed using HTML, Tailwind CSS, NextJS for the frontend and Strapi for the backend. It will be accessible on all popular web browsers and will require an active internet connection for users and companies to access its features.

The purpose of this Software Requirement Specification (SRS) is to provide a comprehensive understanding of the requirements and specifications for the development of the Online Job Portal. The SRS will outline the intended audience, scope, definitions and abbreviations, product perspective, software interface, communication interface, product functionalities, assumptions, and dependencies of the project.

Purpose:

The purpose of the Online Job Portal is to provide a centralized platform for job seekers and companies to connect and exchange job-related information. The platform aims to make the job search process easier and more efficient for job seekers by providing them with access to a large database of job vacancies, and enabling them to upload their resumes and transcripts for companies to view.

For companies, the platform provides an easy and convenient way to post job vacancies, view resumes and transcripts of job applicants, and manage their job postings. The platform also includes an administrative panel where the admin can approve users and companies, view registered users and companies, and manage the platform.

The Online Job Portal will provide a user-friendly interface and streamlined user experience, making it easy for job seekers and companies to find and exchange information related to job vacancies. The platform will also have robust security features to protect the privacy and confidentiality of users' data.

The purpose of the Online Job Portal is to provide a valuable resource for job seekers and companies, and to contribute to the growth and development of the job market by connecting job seekers with potential employers.

Scope:

The scope of the Online Job Portal project includes the development of a web-based platform that enables job seekers and companies to connect and exchange job-related information. The platform will include the following functionalities:

1. User Registration and Login: Job seekers and companies can register on the platform and create their profiles. The platform will include a login facility with password reset functionality.
2. Job Seekers: Job seekers can view eligible job vacancies, apply to job vacancies, upload their resumes and transcripts, and view the jobs they have applied to.
3. Companies: Companies can add job vacancies, view resumes and transcripts of job applicants, and manage their job postings.
4. Admin Panel: The admin will have the ability to approve users and companies, view registered users and companies, and manage the platform.
5. Job Vacancy Details: The platform will display details of job vacancies, including the job title, company name, job description, and other relevant information.
6. Resume and Transcript Upload: Job seekers can upload their resumes and transcripts for companies to view.
7. User-friendly Interface: The platform will have a user-friendly interface that is easy to navigate, with clear and concise information displayed on each page.
8. Security: The platform will have robust security features to protect the privacy and confidentiality of users' data.

The scope of the project does not include the development of mobile applications, as the platform will be web-based only. The platform will be developed using HTML, CSS, NextJS, Strapi, and React. The development platform will be Visual Studio Code.

The project will be considered complete when all the functionalities described above have been implemented and thoroughly tested. The project will be delivered in the form of a fully functional web-based platform that is ready for deployment.

Intended Audience and Overview of the Project:

The intended audience for the Online Job Portal includes job seekers, companies and administrators. The job seekers can search for job vacancies, apply for jobs and manage their resumes and transcripts. The companies can add job vacancies, view job applications and download details of the job seekers who have applied for their jobs. The administrator is responsible for approving users and companies, managing the overall platform, and ensuring that all the functionalities are working as expected.

Definition and Abbreviations

1. Job Seeker - A person who is searching for job opportunities.
2. Admin - An individual who is responsible for managing and maintaining the online job portal.
3. Company User - An individual who represents a company and is responsible for adding job opportunities on the online job portal.
4. Login - A feature that allows a user to access their account on the online job portal.
5. Register - A feature that allows a user to create an account on the online job portal.
6. Reset Password - A feature that allows a user to reset their password if they forget it.
7. Eligible Jobs - A feature that displays all the job opportunities available on the online job portal.
8. Jobs Applied - A feature that displays all the jobs that the job seeker has applied for.
9. Resume - A feature that allows the job seeker to upload their resume.
10. Transcript - A feature that allows the job seeker to upload their academic transcripts.
11. Logout - A feature that allows a user to log out of their account.
12. Approve User - A feature that allows the admin to approve or reject a job seeker's registration on the online job portal.
13. Approve Company - A feature that allows the admin to approve or reject a company's registration on the online job portal.
14. See All Registered Users - A feature that allows the admin to view all the registered job seekers on the online job portal.
15. See All Registered Companies - A feature that allows the admin to view all the registered companies on the online job portal.

16. Delete Profile - A feature that allows the admin to delete a user's profile on the online job portal.
17. Add Jobs - A feature that allows the company user to add job opportunities on the online job portal.
18. Download Details - A feature that allows the company user to download the details of job seekers who have applied for their job opportunities.
19. Delete Job - A feature that allows the company user to delete a job opportunity they have added on the online job portal.
20. VS Code - A code editor used to develop the online job portal.
21. HTML - Hypertext Markup Language, a standard markup language used to create web pages.
22. Tailwind CSS - A utility-first CSS framework used to design the user interface of the online job portal.
23. NextJS - A React-based framework used to build the frontend of the online job portal.
24. Strapi - A headless content management system used to build the backend of the online job portal.

Overall Description

The online job portal is a web-based platform that connects job seekers with employers. The platform offers an easy-to-use interface, allowing job seekers to search and apply for jobs and companies to post job openings and view candidate applications. The platform is designed to streamline the job search and hiring process for both job seekers and employers.

Product Perspective:

The online portal is designed to provide job seekers with a platform to search and apply for jobs, while providing companies with a platform to post and manage job listings. The portal will have three main parts: User, Admin, and Company. The User part will allow job seekers to register, login, view eligible jobs, apply for jobs, update their resume and transcripts, and log out. The Admin part will allow the administrator to approve users, view all registered users, approve companies, view all registered companies, and log out. The Company part will allow companies to register, login, add jobs, view all jobs added by the company, see which users have applied for the job, download details of users who have applied, and delete any job they have added.

Software Interface:

The software interface for the online portal will be web-based, allowing users to access the platform from any device with an internet connection. The front-end of the platform will be built using HTML, Tailwind CSS, and NextJS, while the back-end will be built using Strapi. The user interface will be user-friendly and intuitive, allowing users to easily navigate and use the platform.

Communication Interface:

The online portal will allow communication between job seekers and companies. Job seekers will be able to apply for jobs and companies will be able to view the applications and download the details of the applicants. The platform will also allow communication between the administrator and users and companies. The administrator will be able to approve users and companies, and view their profiles.

Product Functionalities:

a. User (Job Seeker):

Login: Users will be able to log in to the portal using their username and password. If they forget their password, they will be able to reset it.

Register: Users will be able to register as a job seeker on the portal by providing their personal and educational information.

Eligible Jobs: Users will be able to view the details of available job opportunities and apply for the jobs they are interested in.

Jobs Applied: Users will be able to view a list of the jobs they have applied for.

Resume and Transcript: Users will be able to upload and update their resume and transcripts on the portal.

Logout: Users will be able to log out of the portal when they are done.

b. Admin:

Login: The administrator will be able to log in to the portal using their username and password. If they forget their password, they will be able to reset it.

Approve User: The administrator will be able to approve new users who have registered on the portal.

See All Registered Users: The administrator will be able to view a list of all the registered users and access their profiles. The administrator will also be able to delete user profiles if necessary.

Approve Company: The administrator will be able to approve new companies who have registered on the portal.

See All Registered Companies: The administrator will be able to view a list of all the registered companies and access their profiles. The administrator will also be able to delete company profiles if necessary.

Logout: The administrator will be able to log out of the portal when they are done.

c. Company:

Login: Companies will be able to log in to the portal using their username and password. If they forget their password, they will be able to reset it.

Register: Companies will be able to register on the portal by providing their company information.

Add Jobs: Companies will be able to post job openings on the portal.

See all Jobs Added by This Company: Companies will be able to view a list of the jobs they have posted on the portal.

Download Details of Users Applied: Companies will be able to download the details of users who have applied for the jobs they have posted.

Delete any Already Added Job

Product Features:

User (Job seeker) Registration and Login: Job seekers can register with their details, including name, email address, phone number, and qualifications. They can log in using their registered email id and password.

Admin Registration and Login: Admin can register and log in to the system using their registered email id and password.

Company Registration and Login: Companies can register with their details, including company name, email address, phone number, and other details. They can log in using their registered email id and password.

Job Search: Job seekers can search for job vacancies based on their skills, experience, and location.

Job Application: Job seekers can apply to job vacancies by submitting their resumes and cover letters.

Eligible Job: Job seekers can view details of eligible jobs that match their qualifications and experience.

Jobs Applied: Job seekers can view the list of jobs they have applied to.

Resume and Transcript Update: Job seekers can update their resumes and academic transcripts whenever required.

Company Profile: Companies can create their profiles, add job vacancies, and view the list of applicants who have applied to their job postings.

Approve Company: Admin can approve or reject company registration requests.

See All Registered Companies: Admin can view the list of registered companies, their profiles, and delete any company if required.

Job Postings: Companies can post job vacancies, and job seekers can apply for them.

Job Seekers - Individuals who are actively seeking jobs, possessing different qualifications, and experience.

Employers - Companies, organizations, or individuals looking to hire employees for various job positions.

External Interface Requirements:

User Interface - The application's user interface must be simple, intuitive, and easy to use, with appropriate navigation menus and interactive features.

Hardware Interface - The job portal application must be compatible with a range of hardware devices, including desktops, laptops, tablets, and mobile phones.

Software Interface - The system must be compatible with different web browsers such as Google Chrome, Mozilla Firefox, and Safari.

Communication Interface - The system must allow for secure communication between job seekers, employers, and administrators.

Non-functional Requirements:

Performance Requirements - The application must be able to handle multiple user requests simultaneously without any delay or lag.

Safety Requirements - The system must ensure the confidentiality and security of user information, job postings, and other data by implementing appropriate security measures, such as encryption and secure authentication.

Software Quality Attributes - The system must be designed with high software quality attributes, such as maintainability, reliability, and scalability, to ensure the smooth operation and longevity of the platform.

Security Requirements - The system must be designed with appropriate security measures to protect against potential cyber-attacks, such as SQL injection attacks, cross-site scripting, and other types of web-based attacks. The system must be regularly updated to address any security vulnerabilities and maintain a secure environment for users.

Assumptions:

The online portal will assume that all users have access to the internet and a device that can access the web.

The portal will assume that users have basic knowledge of using a web-based platform.

The portal will assume that users have valid email addresses for registering and resetting passwords.

Dependencies:

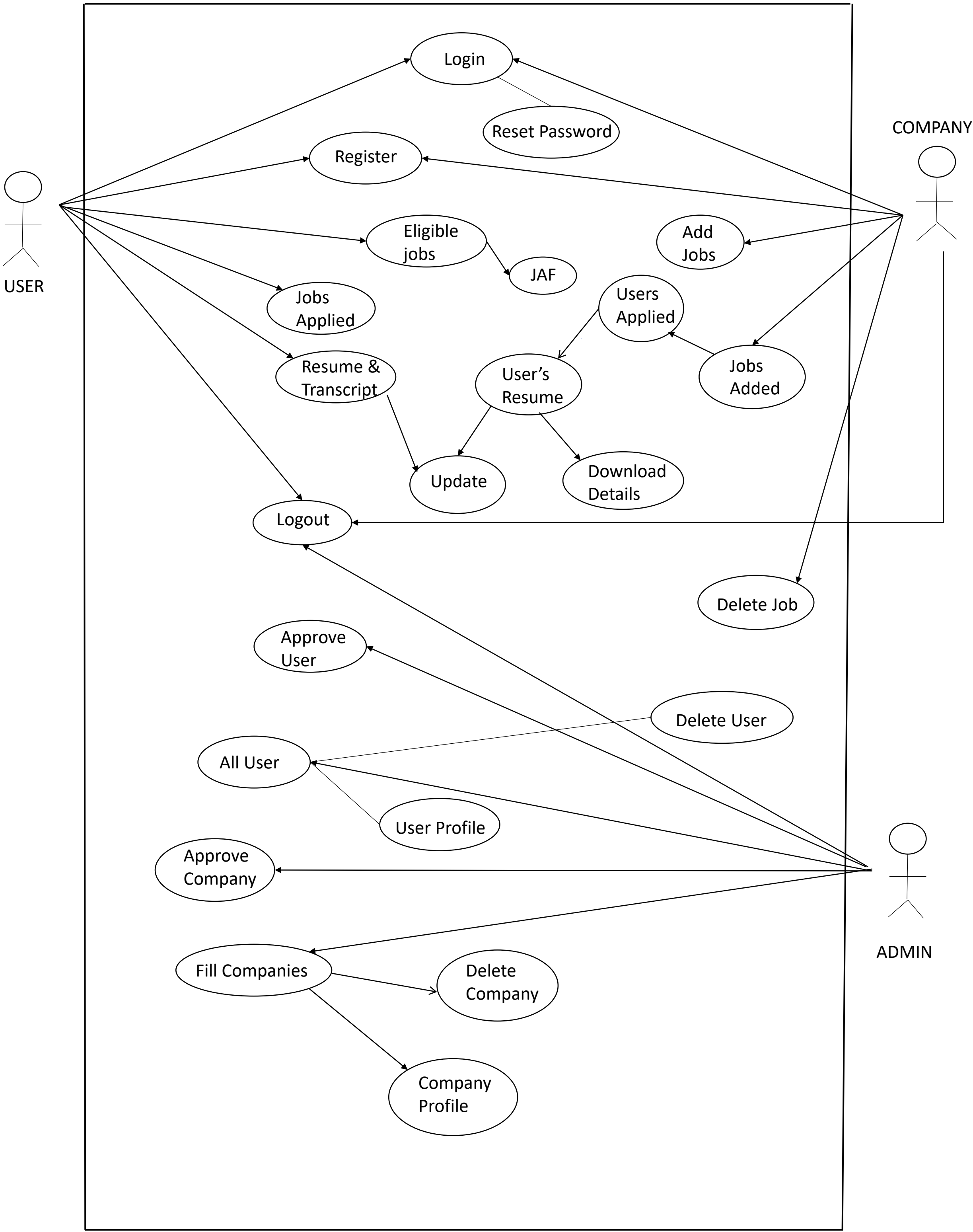
The portal will depend on the availability of the internet and the user's device for accessing the platform.

The portal will depend on the proper functioning of the front-end and back-end technologies used to develop the platform.

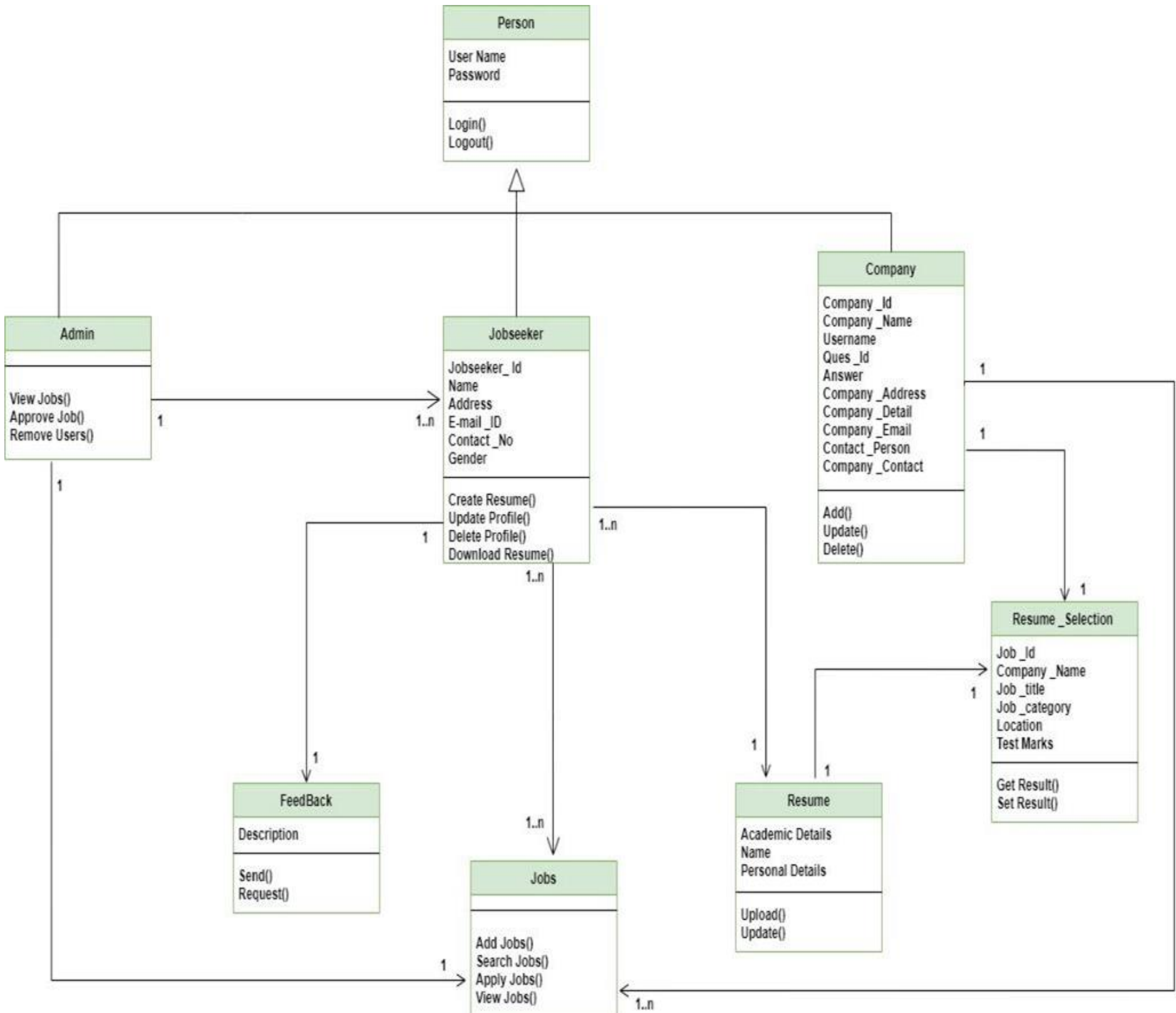
The portal will depend on the user's ability to provide accurate information while registering and updating their profiles.

USE CASE DAIGRAM

JOB PORTAL

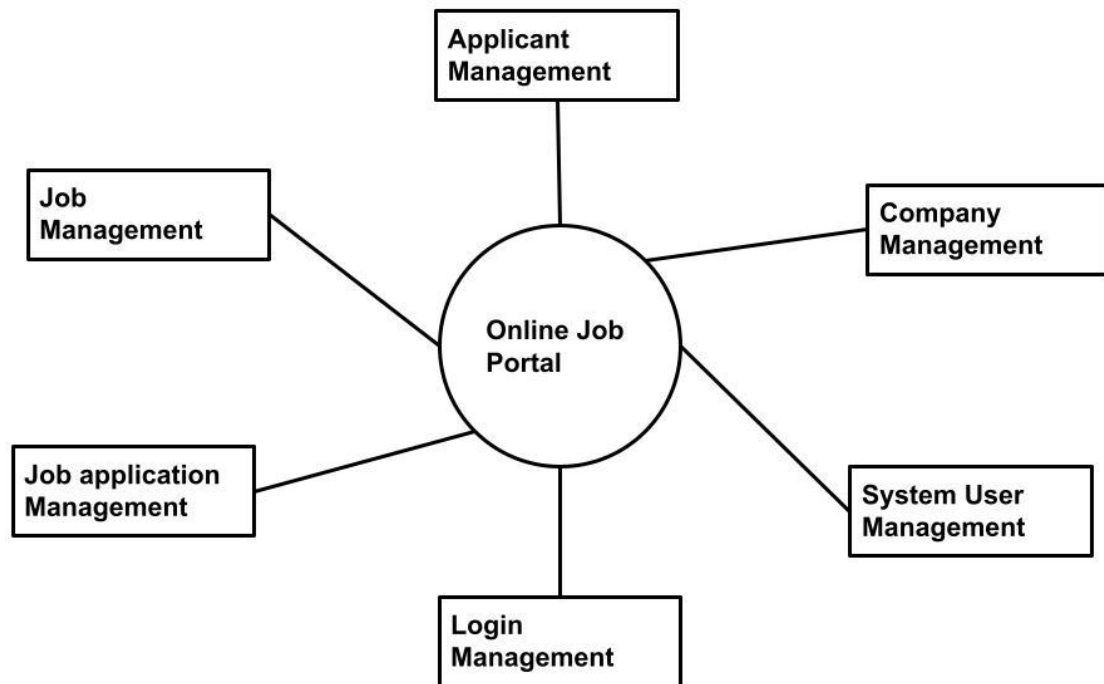


CLASS DIAGRAM for Online Job Portal



Data Flow Diagram (DFD) of Online Job Portal

Level 0



Level 0 DFD

This is the Zero Level DFD of Online Job Portal, where we have elaborated the high level process of Job Portal. It's a basic overview of the whole Online Job Portal or process being analyzed or modeled. It's designed to be an at-a-glance view of Qualification, Salary and Resume showing the system as a single high-level process, with its relationship to external entities of Job, Applicant and Company. It should be easily understood by a wide audience, including Job, Company and Qualification. In zero level DFD of Online Job Portal, we have described the high level flow of the Job Portal system.

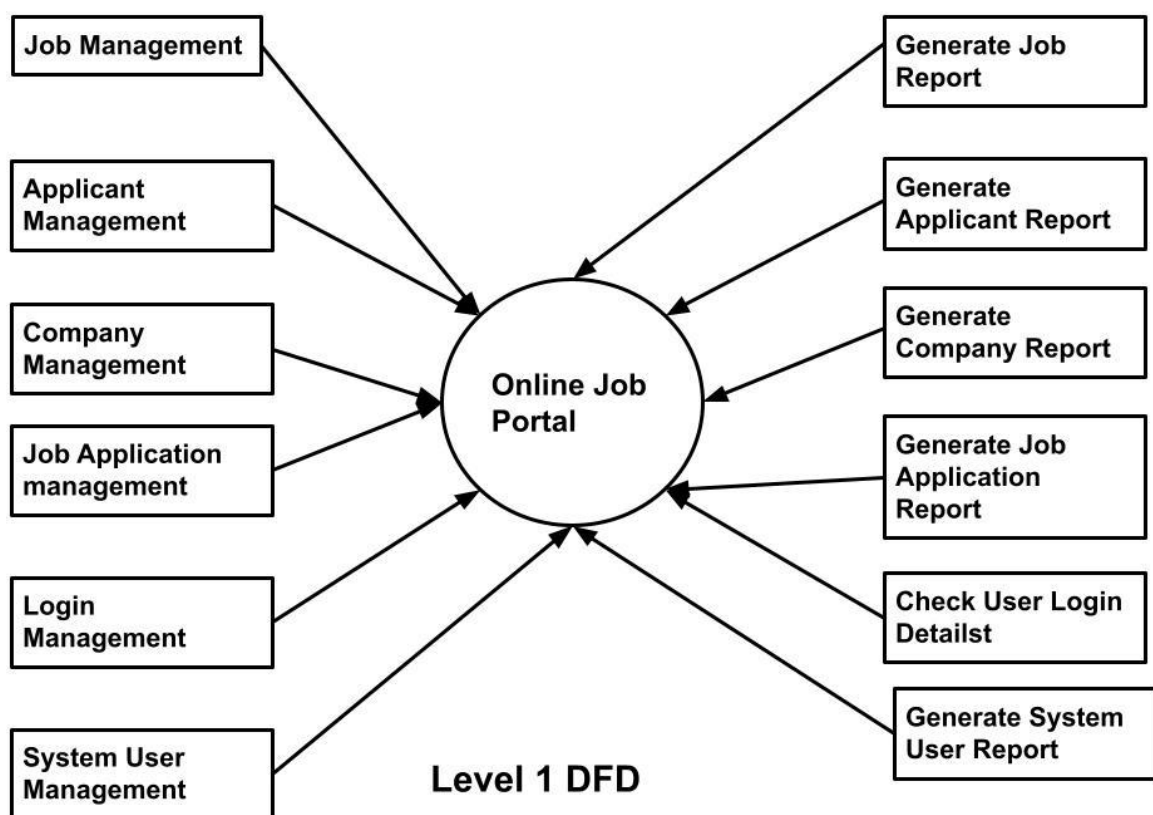
High Level Entities and process flow of Online Job Portal:

Managing all the Job

Managing all the Applicant

Managing all the Company
Managing all the Job Applicant
Managing all the Qualification
Managing all the Salary
Managing all the Resume

Level 1



First Level DFD (1st Level) of Online Job Portal shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the Online Job Portal system as a whole. It also identifies internal data stores of Resume, Salary, Qualification, Job Applicant, Company that must be present in order for the Job Portal system to do its job, and shows the flow of data between the various parts of Job, Company, Salary, Resume, Qualification of the system. DFD Level 1 provides a more detailed breakout of pieces of the 1st level DFD. You will highlight the main functionalities of Job Portal.

Main entities and output of First Level DFD (1st Level DFD):

Processing Job records and generate report of all Job

Processing Applicant records and generate report of all Applicant

Processing Company records and generate report of all Company

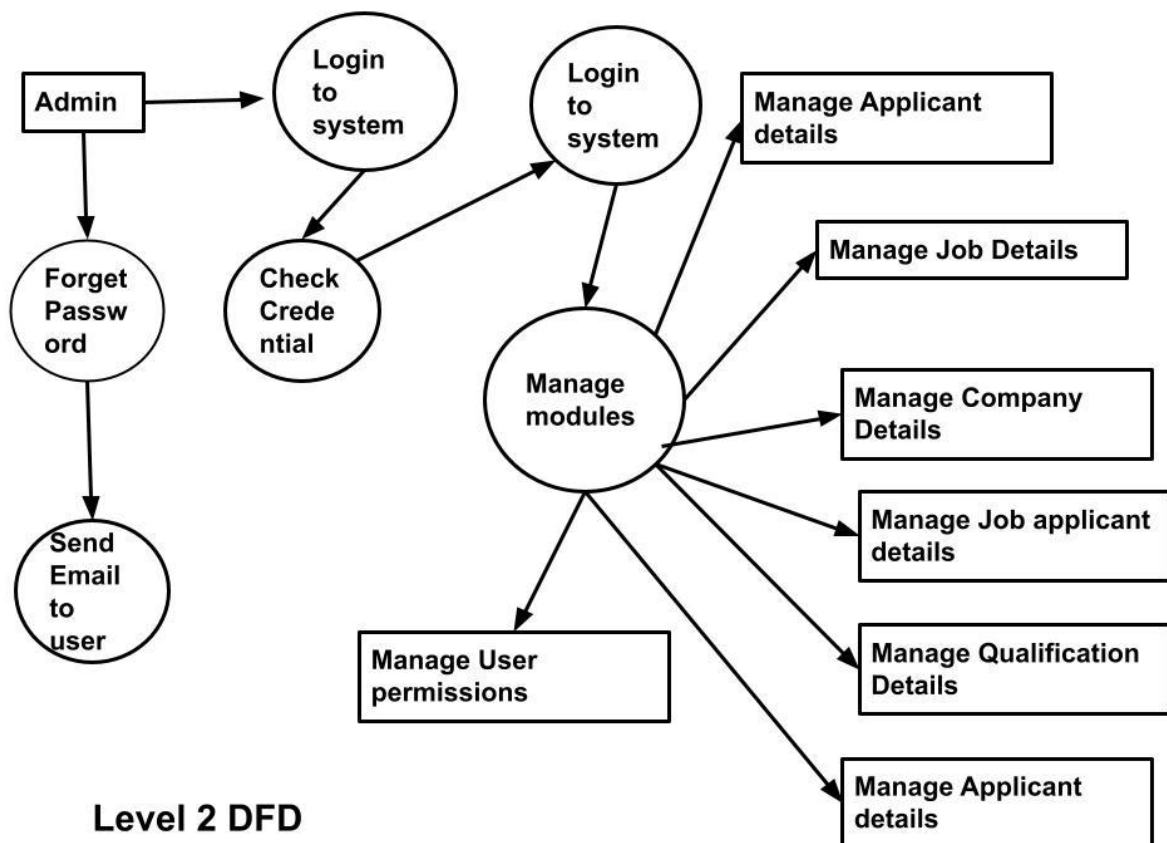
Processing Job Applicant records and generate report of all Job Applicant

Processing Qualification records and generate report of all Qualification

Processing Salary records and generate report of all Salary

Processing Resume records and generate report of all Resume

Level 2



DFD Level 2 then goes one step deeper into parts of Level 1 of Job Portal. It may require more functionalities of Job Portal to reach the necessary level of detail about the Job Portal functioning. First Level DFD (1st Level) of Online Job Portal shows how the system is divided into sub-systems (processes). The 2nd Level DFD contains more details of Resume, Salary, Qualification, Job Applicant, Company, Applicant, Job.

Low level functionalities of Online Job Portal

Admin logs in to the system and manage all the functionalities of Online Job Portal

Admin can add, edit, delete and view the records of Job, Company, Qualification, Resume

Admin can manage all the details of Applicant, Job Applicant, Salary

Admin can also generate reports of Job, Applicant, Company, Job Applicant, Qualification, Salary

Admin can search the details of Applicant, Qualification, Salary

Admin can apply different level of filters on report of Job, Job Applicant, Qualification

Admin can tracks the detailed information of Applicant, Company, Job Applicant, , Qualification

ER Diagram (Online Job Portal)

