

Job Portal with Resume Analyzer

1. System details:

1.1. System objective:

The main goal of Job Portal with Resume Analyzer is to help job seekers upload their resumes to optimize their resumes and increase their chances of landing the right job. It strives to achieve the following goals:

- Analyze uploaded resumes to identify strengths and weaknesses.
- Make suggestions to improve resume content, structure, and presentation.
- Compare scanned resumes with relevant job listings.
- Provide guidance on skill development and experience requirements.

1.2. Definition:

Job Portal with Resume Analyzer is a website designed to help people improve their resumes and find suitable job opportunities. It can analyze user's resume, suggest ways to improve it, and compare user's skills to job listings. It also advises how to improve your skills and experience for better job prospects.

This system aims to make job searching easier and more efficient by analyzing resumes and providing personalized job offers.

1.3. System Features

- Resume Analyzer
 - Data Parsing
 - Data Extractions
 - Job Searching
 - Resume upload
 - Job Posting

2. Functional Requirements:

2.1. Registration/Log in:

The user registration and login system allow users to create an account on the Resume Analyzer platform by providing personal information and credentials, including name, email, and password.

After the account is created, the system verifies the user's information and sends a confirmation email to activate the account.

2.2. Resume Parsing & Analysis:

This function allows users to upload resumes in various formats such as PDF and DOC. After uploading a resume, the system carefully analyzes the resume and extracts important information such as contact information, work experience, education and skills.

This process helps job seekers understand their resume's strengths and weaknesses and allowing them to make the necessary improvements to improve their chances. looking for a job.

2.3. Keyword Extraction:

In this function extracts relevant keywords and phrases from uploaded resumes, highlighting keywords that reflect the user's skills and experience. These extracted keywords serve to illuminate the resume content and can be used to increase effectiveness and searchability in the job market and industry trends.

This feature helps users highlight the strengths of their resumes and ensure they align with their desired job roles or industries.

2.4. Manage User Profile:

In this Functionality have serves three users:

- **Job Seekers:**
Job Seekers can find jobs, view jobs and apply for it and they can also check their resumes in our system.

- **Organizations:**

Organizations can post Job listings and recruit Job Seekers.

- **Admin:**

Admin manages the operation of the site. In it, users can create, edit or delete profiles, save multiple resumes, track job applications.

This comprehensive approach ensures that the platform meets the needs of both job seekers and employers, creating a complete job matching system.

2.5. Manage Notification:

The system notifies users of important events, such as new job listings that match their skills, tips for skill development, and follow-up analysis results. Alerts can be sent by email.

Users can adjust their preferences and notification frequency.

2.6. Job Posting:

System allows organizations to create, edit and delete Job listings.

System generated a unique ID for each job posting and displays it on the portal along with the job title, description, requirements, location, salary and application deadline.

2.7. Job Searching:

System allows job seekers to search, filter and sort the job listings by keywords, categories. System allows job seekers to view the details of each job postings and apply for the job by uploading their resume and cover letter.

3. Non-Functional Requirements:

3.1. Privacy and Security:

We will keep a confirmation email on the website during the login and registration process with two-factor authentication. providing a captcha when uploading resume like I'm not a robot.

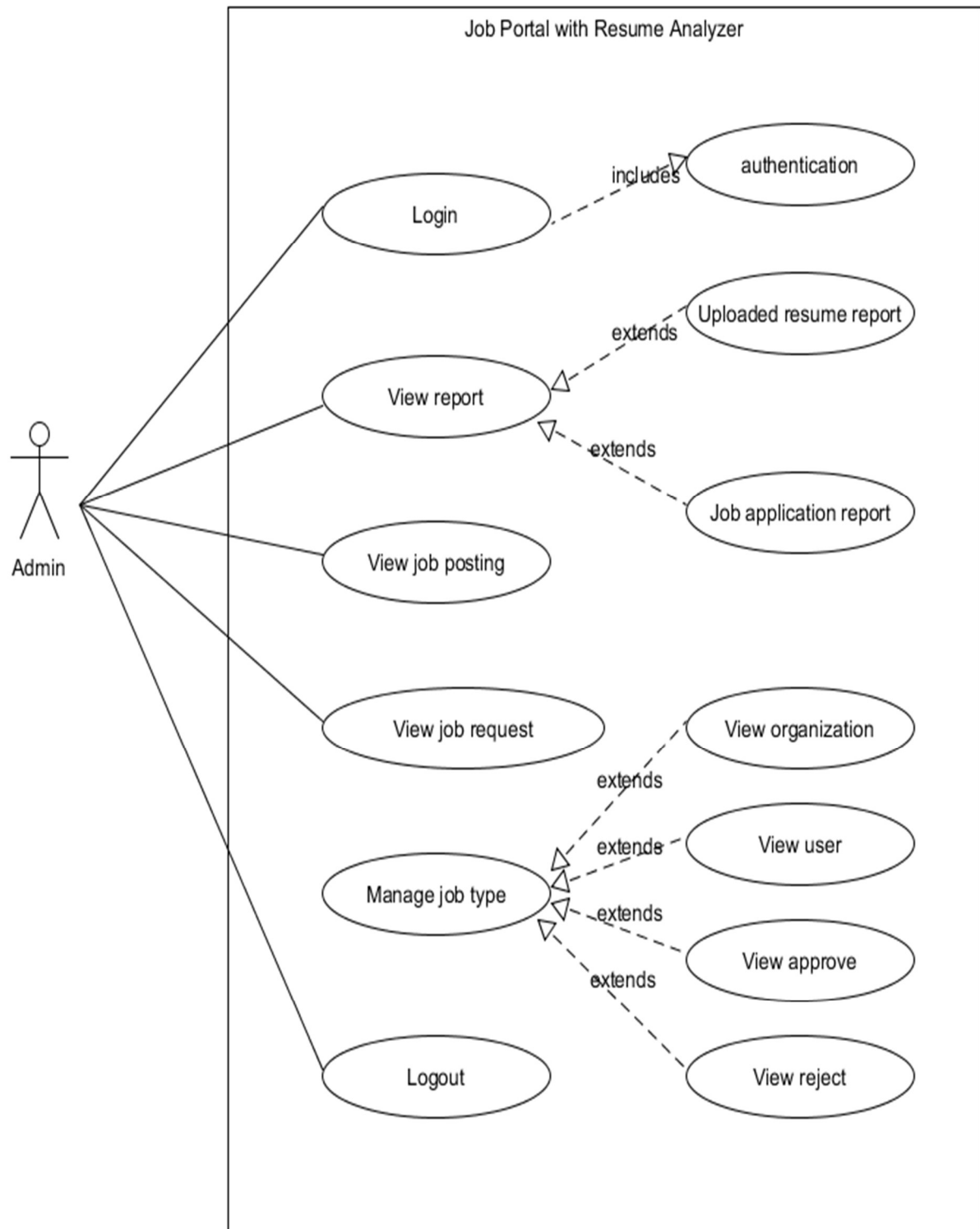
3.2. Responsive:

Designed website to be user-friendly, with easy navigation, allowing users to seamlessly interact with the system.

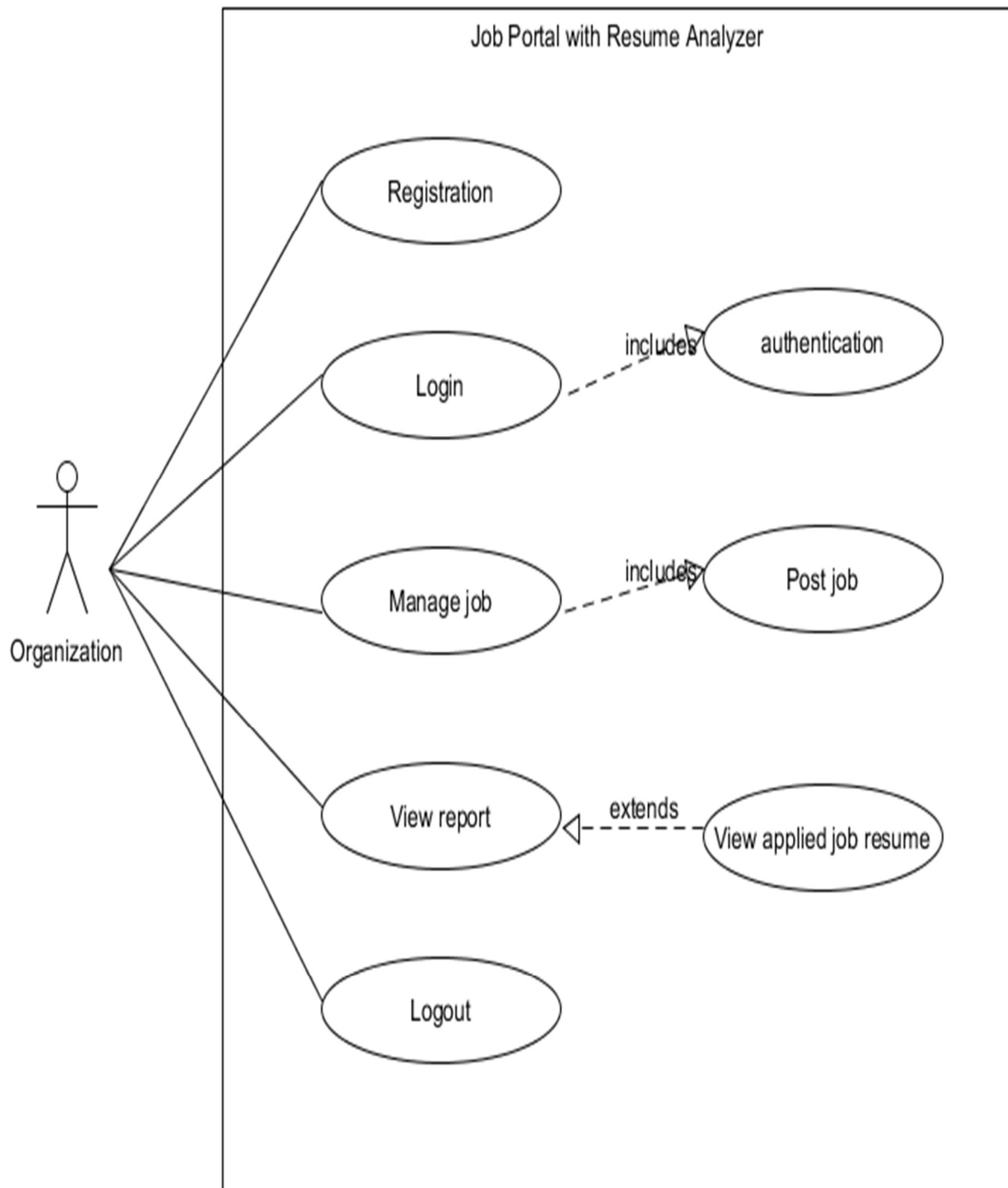
4. System design

4.1. Use case diagram:

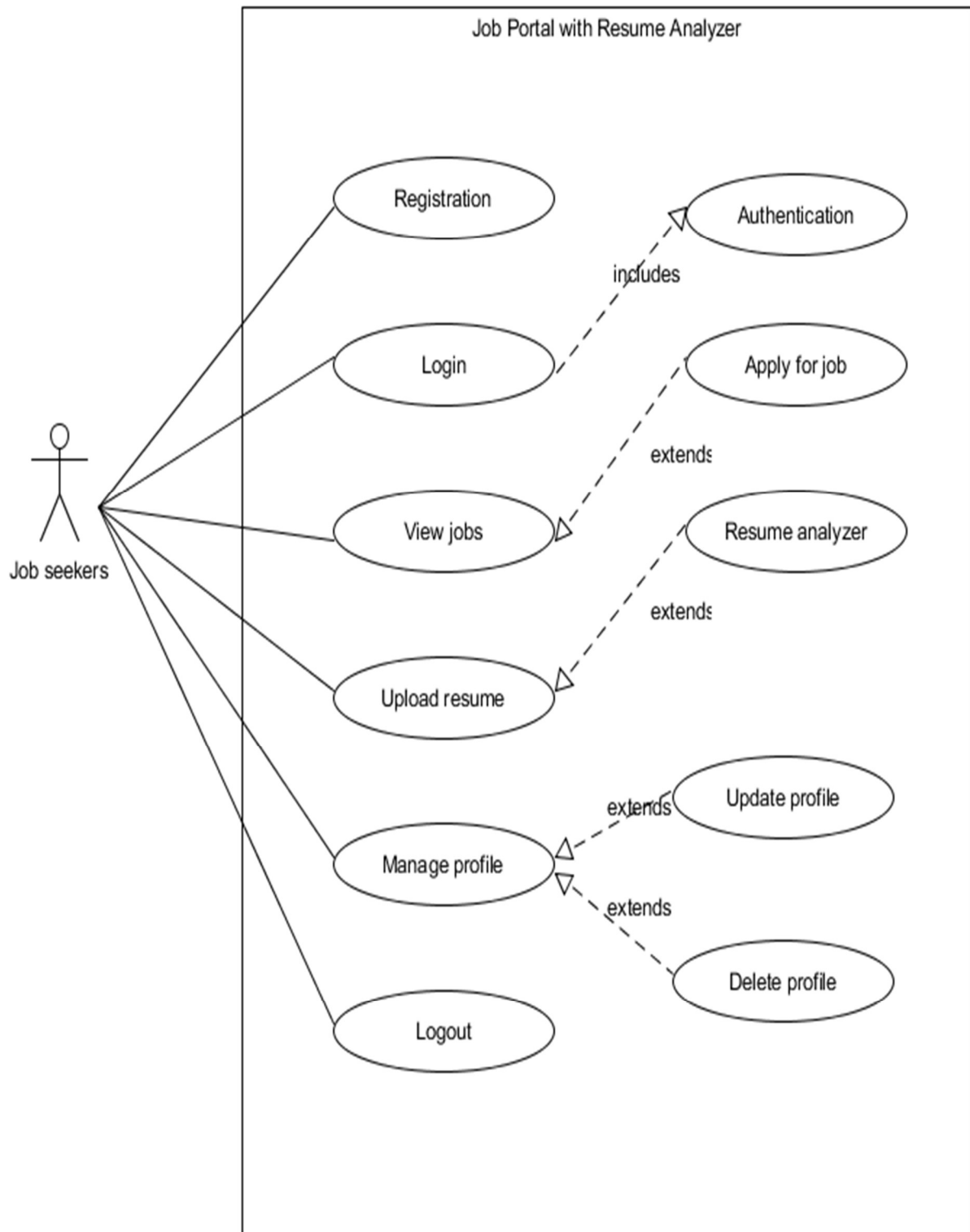
- Admin



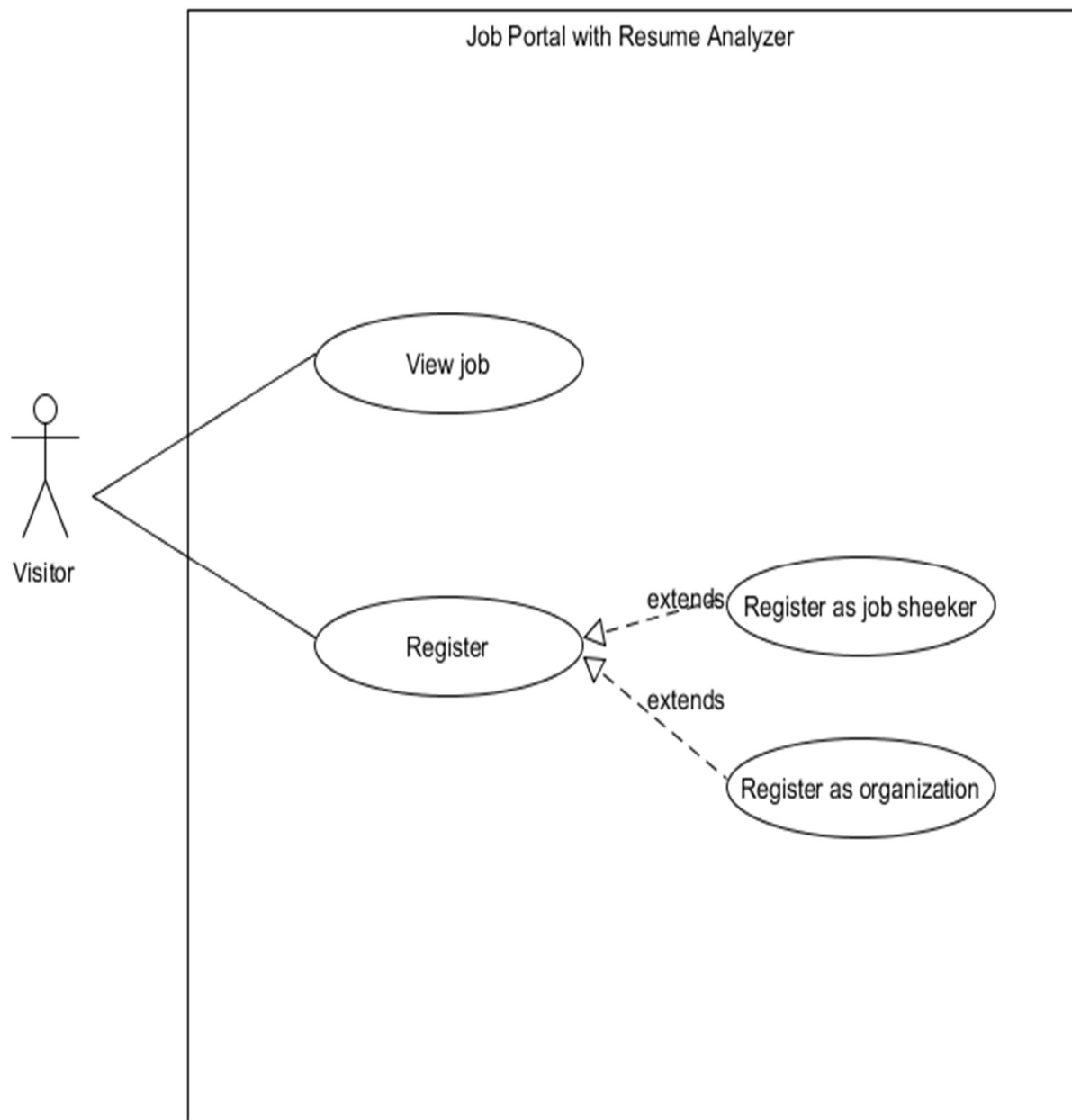
- **Organization:**



- **Job seekers:**

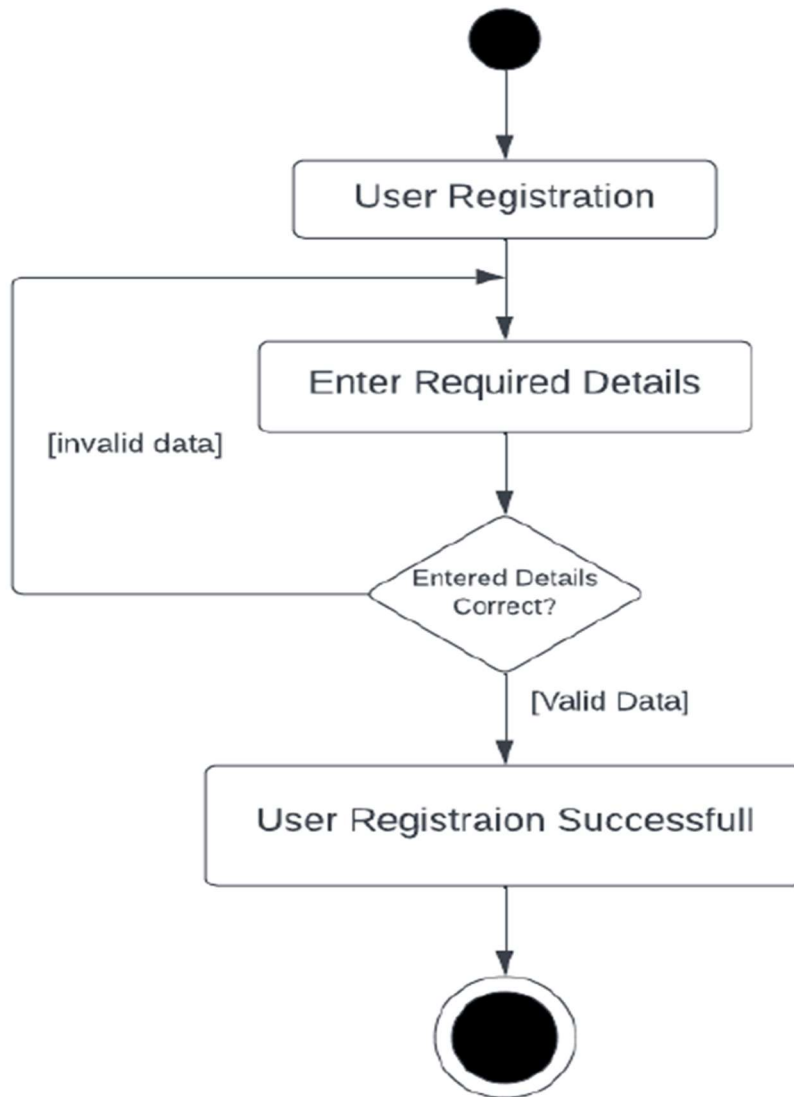


- **Visitor:**

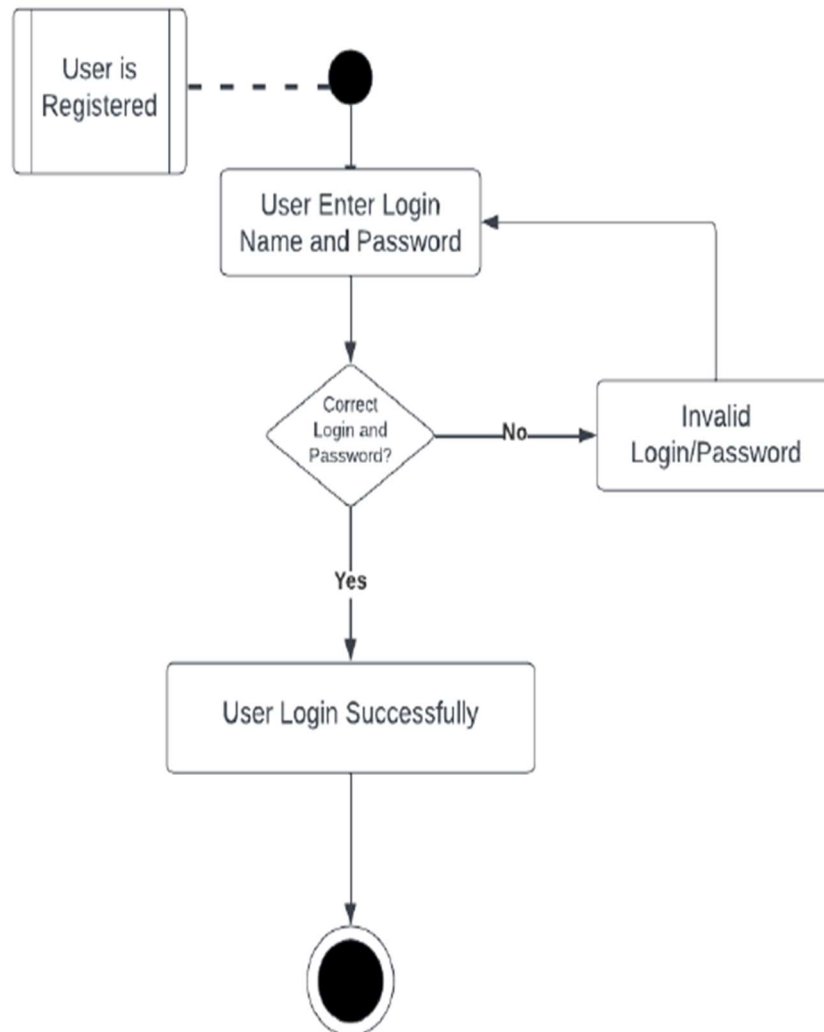


4.2 Activity Diagram:

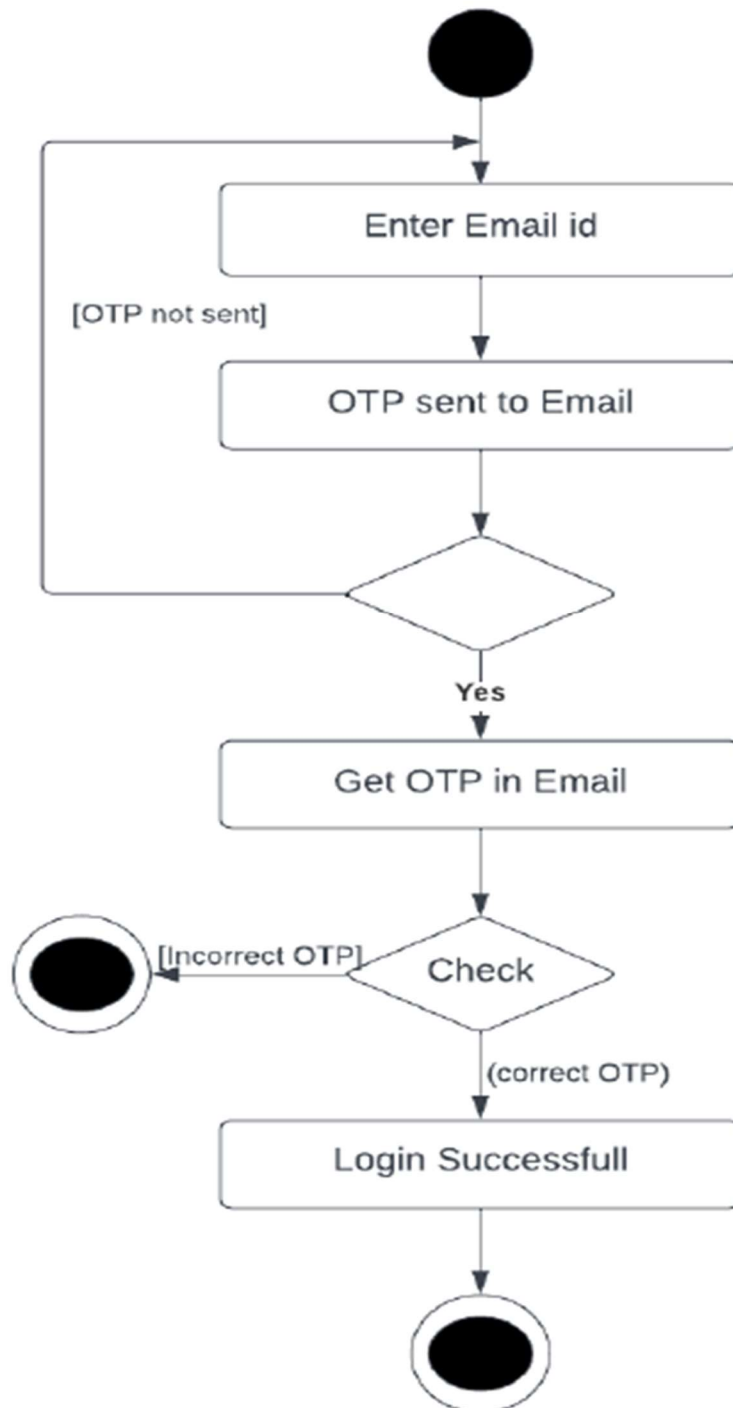
- Registration:



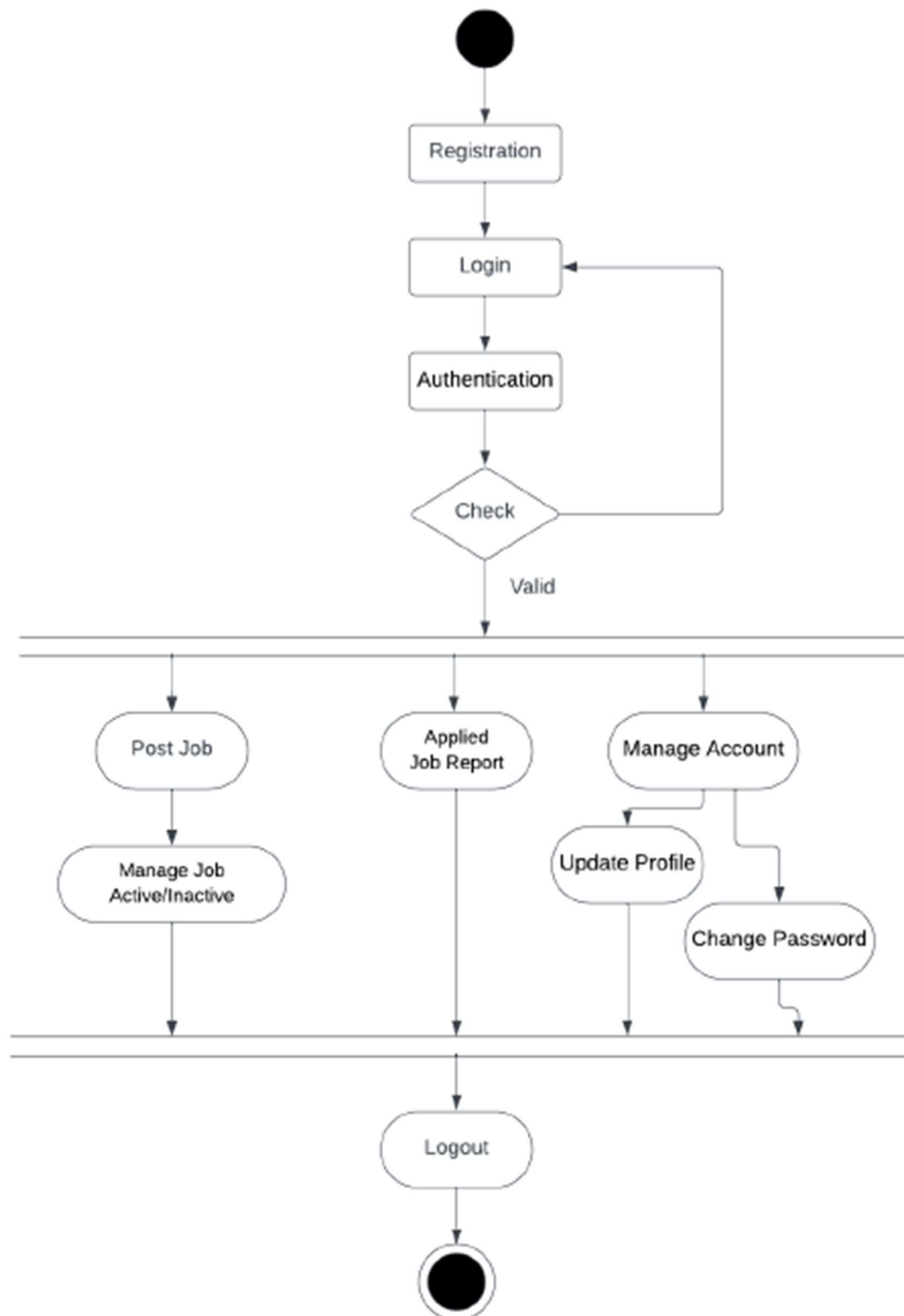
- **Login:**



- **Notification:**



- **Login with OTP:**



- **Job post activity:**



5. Database Design:

5.1. Data Dictionary with Constraint

5.1.1. Admin Master

Purpose of the table:

In this database table, it stores all the major information of the admin. In this table, we will store A_ID, A_name, A_email, A_phone, A-password.

Field	Datatype	Size	Constraints	Sample Value	Description
A_Id	Varchar	10	Primary Key	A01	It stores id of the admin
A_name	Varchar	50	Not null	Admin	It stores name of the admin
A_email	Varchar	250	Not null	admin@gmail.com	It stores mail id of the admin
A_phone	Char	10	Not null	1234567890	It stores mobile number of admin
A_password	char	120	Not null	adminpwd	It stores password of the admin

5.1.2. Organization Master

Purpose of the table:

In this database table, it stores all the major information of the Organization. In this table, we will store O_ID, O_name, O_email, O_phone, O_type, O_Rno, O_proof, O_password.

Field	Datatype	Size	Constraints	Sample Value	Description
O_Id	Varchar	10	Primary Key	O01	It stores id of the organization.
O_name	Varchar	50	Not null	OrganizationX	It stores name of the organization.
O_email	Varchar	250	Not null	organization@gmail.com	It stores mail id of the organization.
O_phone	Char	10	Not null	1234567890	It stores mobile number of organization.

O_type	char	120	Not null	Computer Science	It stores type of the organization.
O_Rno	Varchar	50	Not null	202005123(12345—g)	It stores registration number of organization.
O_password	Char	120	Not null	organization_pwd	It stores password of the organization.

5.1.3. Job Master

Purpose of the table:

In this database table, it stores all the major information of the Job. In this table, we will store J_ID, J_title, J_description, J-address, J-type, J_vacancy, J_salary, O_ID.

Field	Datatype	Size	Constraints	Sample Value	Description
J_Id	Varchar	10	Primary Key	J01	It stores id of the job.
J_title	Varchar	50	Not null	Senior Java Developer	It stores title of the job.
J_description	Varchar	1000	Not null	Roles and responsibilities: You must have knowledge of OOAD and patterns. You need to use capability of customer focus and collaboration skills.	It stores description of the job.
J_address	Varchar	250	Not null	Business Hub, Ghod dod road, Surat	It stores address of job.
J_type	Char	10	Not null	Remote	It stores type of the job.

J_vacancy	Integer	50	Not null	20	It stores vacancy of job.
J_salary	Decimal	1202225	Not null	50000	It stores salary of the job.
O_Id	Varchar	10	Foreign Key	001	It stores id of the organization which posted the job.

5.1.4. Job Seeker Master

Purpose of the table:

In this database table, it stores all the major information of the Job Seeker. In this table, we will store JS_id, JS_name, JS_address, JS_email, JS_phone, JS_gender, JS_dob, JS_password.

Field	Datatype	Size	Constraints	Sample Value	Description
JS_Id	Varchar	10	Primary Key	JS01	It stores id of the job seeker.
JS_name	Varchar	50	Not null	Akash Gupta	It stores title of the job seeker.
JS_address	Varchar	250	Not null	A-201, Big Sky apartment, katargam, surat.	It stores address of the job seeker.
JS_email	Varchar	250	Not null	akashgupta@gmail.com	It stores mail address of the job seeker.
JS_phone	Char	10	Not null	1234567890	it stores mobile number of the job seeker.
JS_gender	Char	1	Not null	M	It stores gender of the job seeker.
JS_Dob	Date	1202225	Not null	2002-06-04	It stores date of birth of the job seeker.

JS_password	Char	120	Not null	Akashpwd	It stores password of the job seeker.
-------------	------	-----	----------	----------	---------------------------------------

5.1.5. Resume Master

Purpose of the table:

In this database table, it stores all the major information of the Resumes. In this table, we will store r_id, js_id, j_id, r_date, r_status.

Field	Datatype	Size	Constraints	Sample Value	Description
R_id	Varchar	10	Primary Key	R01	It stores idof the resume.
JS_id	Varchar	10	Foreign Key	JS01	It stores id of the job seeker.
J_id	Varchar	10	Foreign key	J01	It stores id of the job.
R_date	Date	250	Not null	2023-11-17	It stores upload date ofthe resume.
R_status	Varchar	10	Not null	Pending	it stores current status of the resume. By default it's "pending".