Course Project Part - 2

Project : A job search and recruitment platform that matches job seekers with relevant job opportunities.

Use cases:

1. **Use Case:** Job Seeker Registration

   Primary Actor: Job Seeker

   Goal: To create an account on the platform and provide information about themselves and their job preferences.

   Preconditions:
   - The job seeker has access to the platform.
   - The job seeker has not previously registered on the platform.

   Triggers:
   - The job seeker clicks on the "Sign Up" button on the platform.

   Steps:
   1. The job seeker enters their personal information, such as name, email, phone number and password.
   2. The job seeker uploads their resume, CV and creates a profile, including their education, work experience, skills and job preferences.
   3. The job seeker verifies their email address.
   4. The platform displays a confirmation message indicating that the account has been successfully created.

   Postconditions:
   - The job seeker's information is saved in the platform's database.
   - The job seeker can now access their account on the platform.

2. Use Case: Job Seeker Search

Primary Actor: Job Seeker

Goal: To search for job opportunities that match their preferences and skills.

Preconditions:

- The job seeker has an account on the platform.
- The job seeker has entered information about their job preferences and skills.

Triggers:

- The job seeker clicks on the "Search" button on the platform.

Steps:

1. The job seeker enters keywords related to their preferred job or industry.

2. The platform uses machine learning algorithms to match the job seeker with relevant job opportunities.
3. The platform displays a list of job opportunities that match the job seeker's preferences.
4. The job seeker can view details about each job opportunity, including the job description, salary, and location.
5. The job seeker can apply for a job by clicking on the "Apply" button.

Postconditions:

- The job seeker's application is sent to the employer.
- The job seeker's information is added to the platform's database for future matching.

3. Use Case: Employer Posting Job

Primary Actor: Employer

Goal: To post a job opportunity on the platform.

Preconditions:

- The employer has an account on the platform.

Triggers:

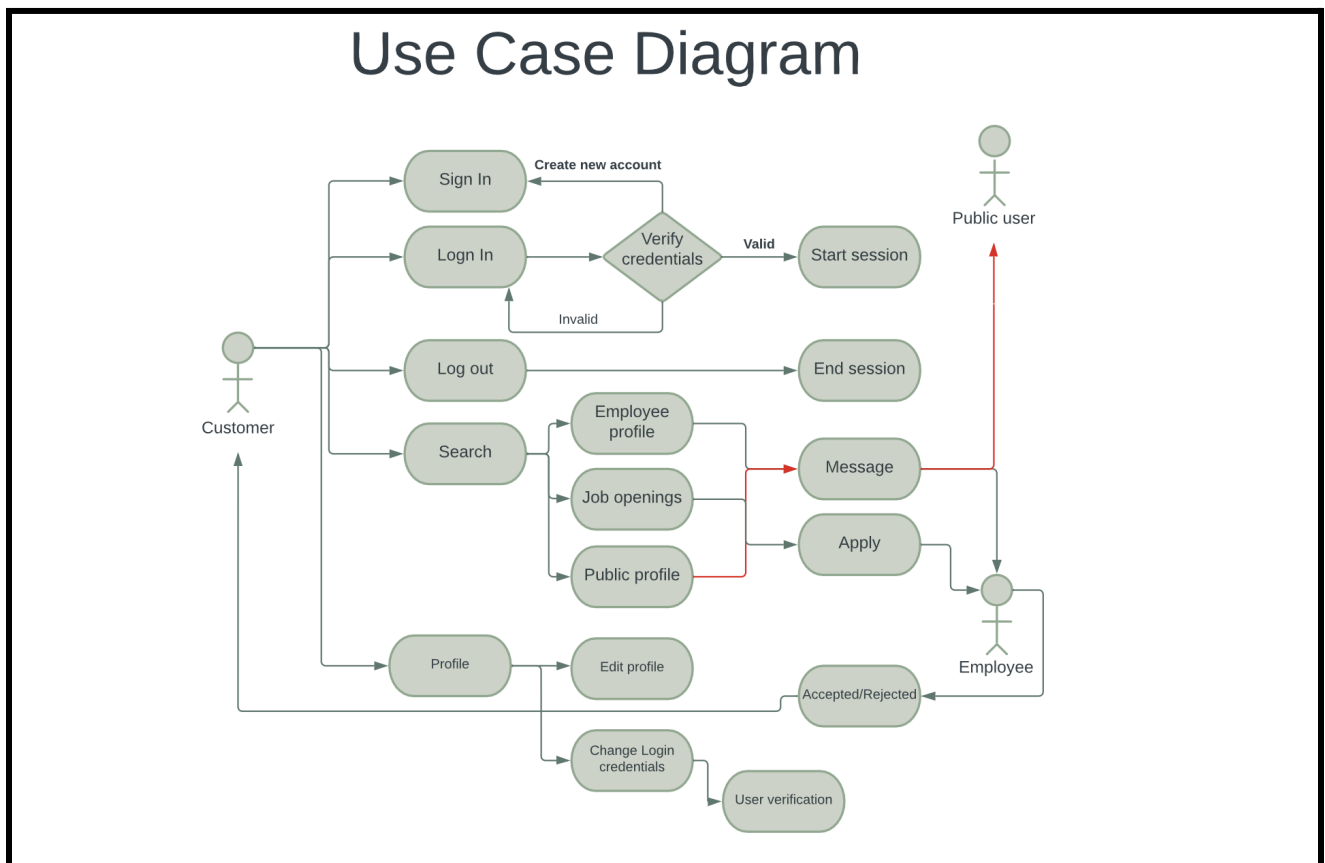- The employer clicks on the "Post Job" button on the platform.

Steps:

1. The employer enters information about the job, including the job title, description, salary, and location.

2. The employer specifies the required skills and qualifications for the job.

3. The employer confirms the information and submits the job posting.

4. The platform displays a confirmation message indicating that the job has been successfully posted.
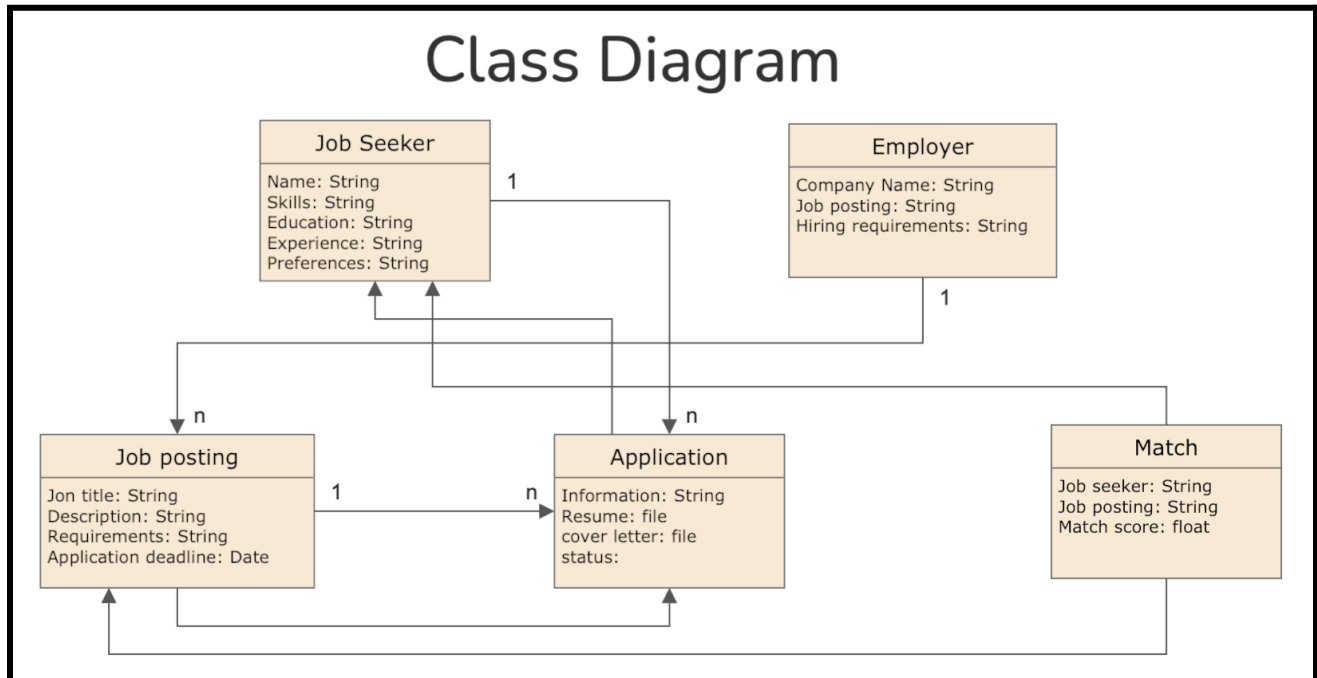
Postconditions:

-   The job is added to the platform's database and becomes available to job seekers.
-   The employer can view the number of applicants and manage the hiring process through the platform.

Diagrams:

1. **Use Case Diagram:**

2. Class Diagram:

Class Diagram

Job Seeker

Name: String
Skills: String
Education: String
Experience: String
Preferences: String

Employer

Company Name: String
Job posting: String
Hiring requirements: String

Job posting

Jon title: String
Description: String
Requirements: String
Application deadline: Date

Application

Information: String
Resume: file
cover letter: file
status:

Match

Job seeker: String
Job posting: String
Match score: float

1   n   n   1   1   n

3. Sequential Diagram:

Sequential Diagram

User: Login/Signin

Sign in / log in: Signin → Enter's customer details → Uploads resume → Verify email → Account created → Login in → Session started

Interface: Website → Search → Employee/Job description → Message / Apply → Profile → Edit information/ change credentails

Employee: Reply, Accepted/ Regected → User