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.
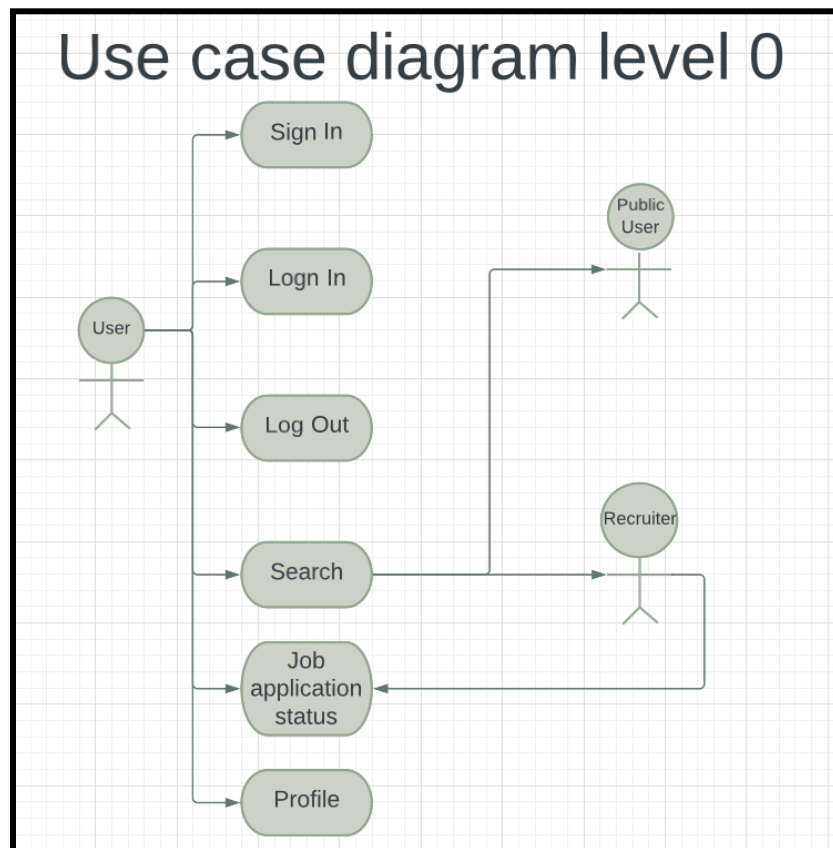
Postconditions:

- 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.
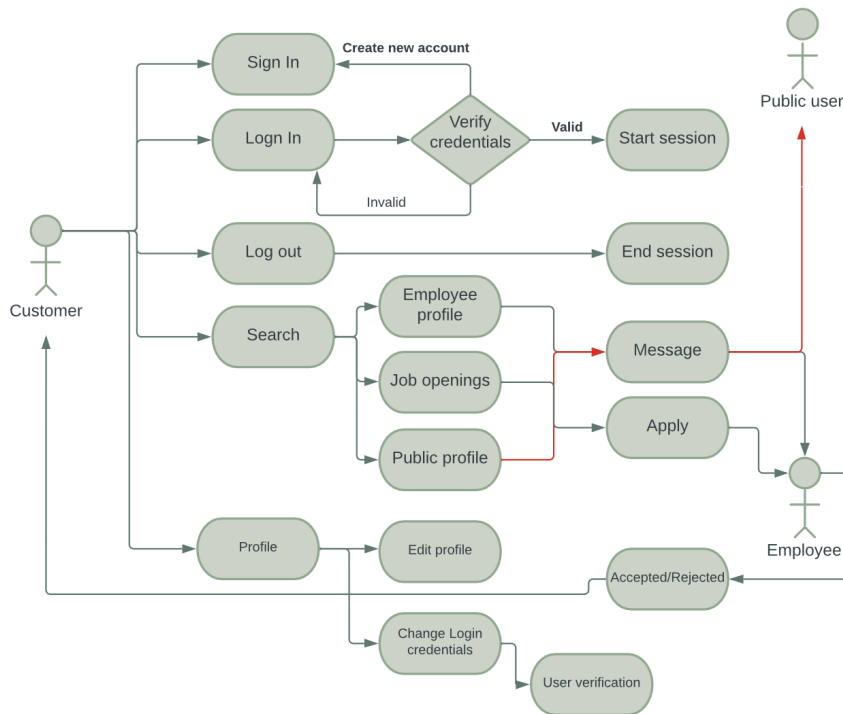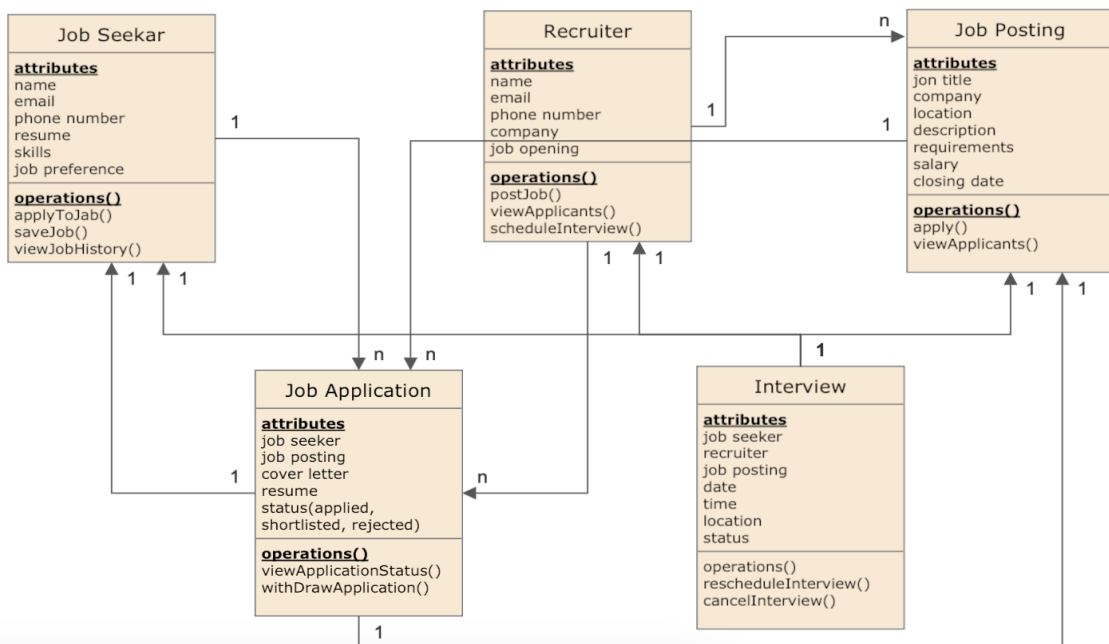
Diagrams:

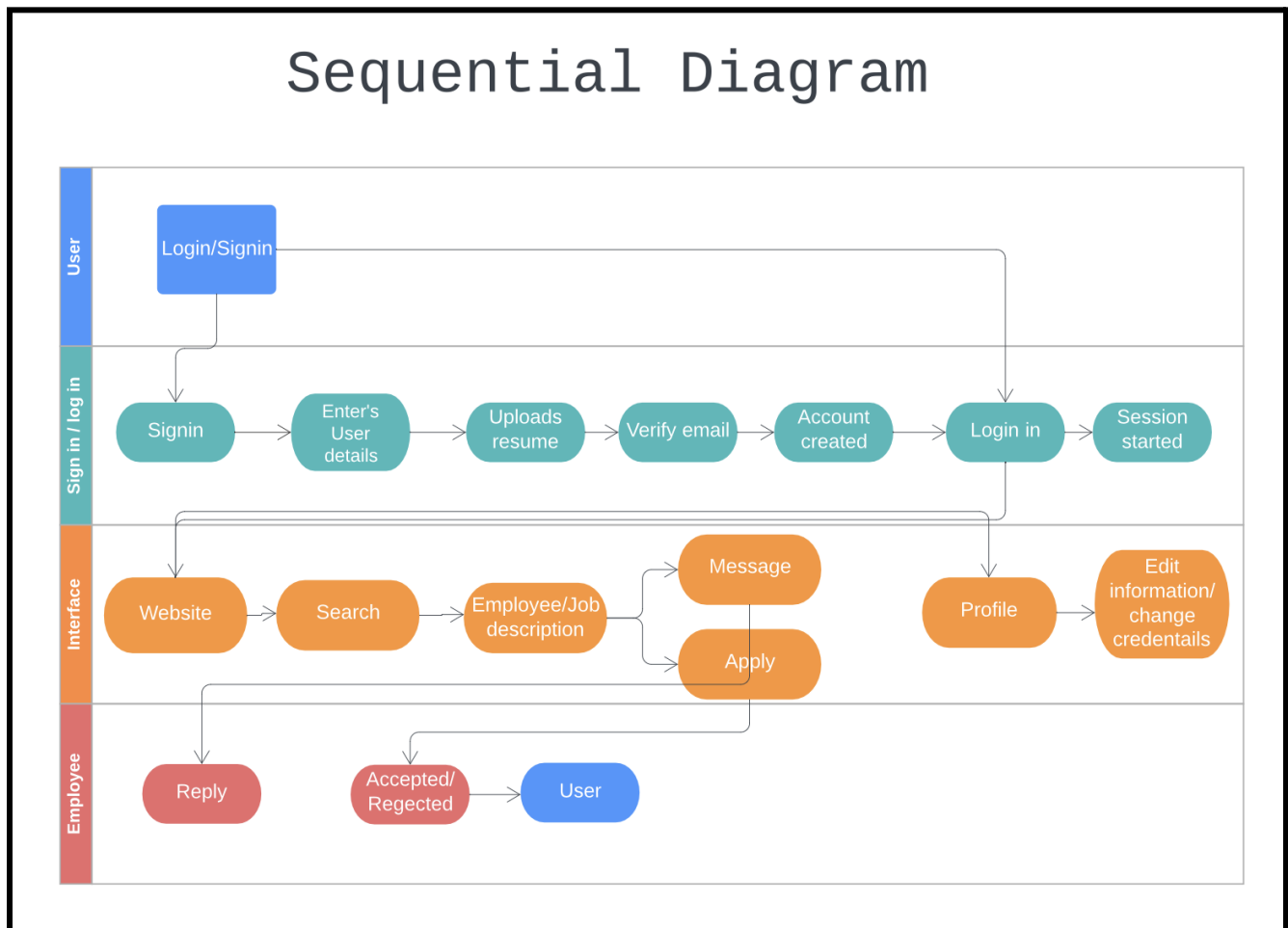1. **Use Case Diagram:**
   a. **Level 0**

a. Level 1

Use Case Diagram

Public user

Customer

Sign In — Create new account

Logn In → Verify credentials → Valid → Start session

Invalid

Log out → End session

Search → Employee profile

Job openings

Public profile

Message

Apply

Employee

Profile → Edit profile

Accepted/Rejected

Change Login credentials → User verification

2. Class Diagram:

Class Diagram

Job Seekar

attributes
name
email
phone number
resume
skills
job preference

operations()
applyToJab()
saveJob()
viewJobHistory()

Recruiter

attributes
name
email
phone number
company
job opening

operations()
postJob()
viewApplicants()
scheduleInterview()

Job Posting

attributes
jon title
company
location
description
requirements
salary
closing date

operations()
apply()
viewApplicants()

Job Application

attributes
job seeker
job posting
cover letter
resume
status(applied,
shortlisted, rejected)

operations()
viewApplicationStatus()
withDrawApplication()

Interview

attributes
job seeker
recruiter
job posting
date
time
location
status

operations()
rescheduleInterview()
cancelInterview()

3. Sequential Diagram:

Team Members:

Raghava Gatadi (21bcs088)

Vishal Kumar (21bcs133)

Rahul Verma (21bcs089)

Suryansh Raj (21bcs124)