



K. K. WAGH POLYTECHNIC, NASHIK.

HIRABAIHARIDASVIDYANAGARI, AMRUTDHAM, PANCHAVATI, NASHIK-422003

DEPARTMENT OF COMPUTER TECHNOLOGY

Academic Year: 2023-24

Class: TYCM-Lin

Group No:

04

Date: _____

Title of Project: “A holistic approach to campus recruitment and student profile analysis for placement.”

Assignment No: 1

Name of Activity (Assignment): Detail Design

Name: Mr. S. H. Sangale

Signature of Guide:

Module-1 Detail Designing & Analysis

1. DFD Diagram:

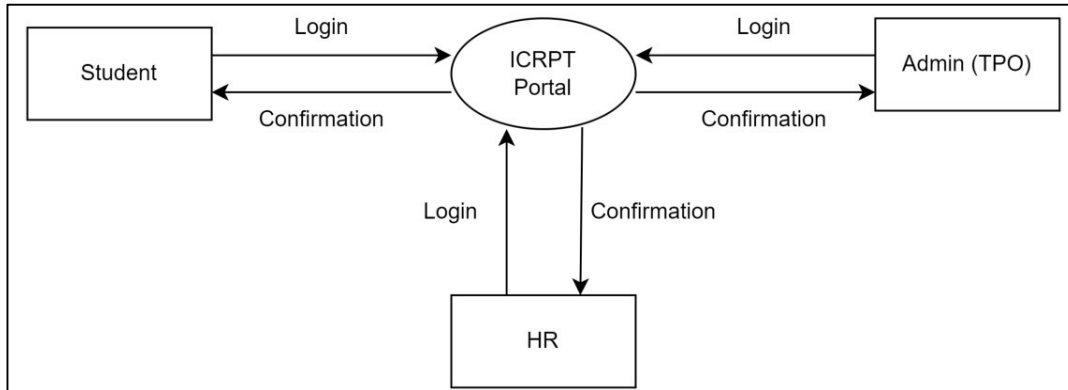


Fig. DFD Level-0

DFD-0 displays a simplified high-level process diagram showing the login interactions between students, an admin (TPO), an HR to the ICRPT system.

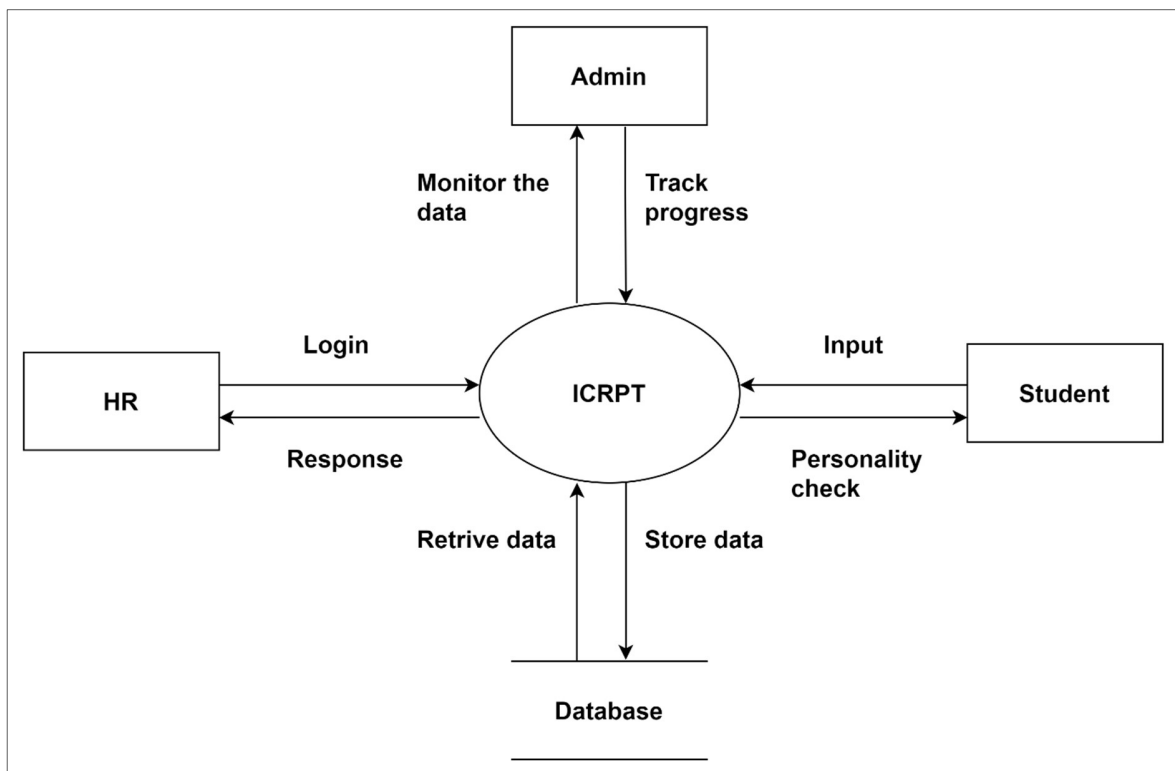


Fig. DFD Level-1

Students: Log in to ICRPT Portal, perform actions, receive confirmation.

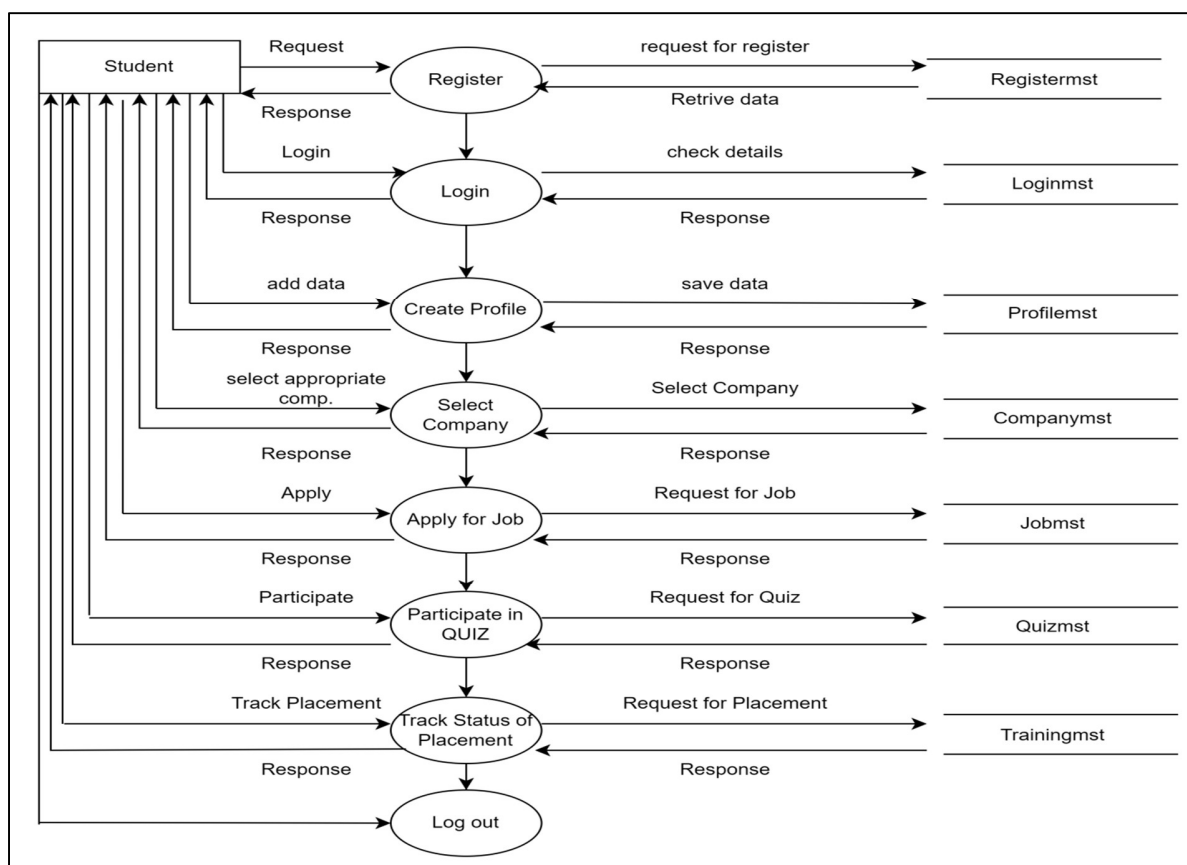
Admin (TPO): Log in, perform administrative tasks related to training and placement, receive confirmation for actions within the portal.

HR: Receives login confirmation, indicating access to student or administrative information, indirectly interacts with the portal through the Admin (TPO).

ICRPT Portal serves as a central hub for student, Admin (TPO), and HR interactions, facilitating communication and processes with confirmation feedback.

DFD Level- 2

- **Student Module:**



Register: Student requests registration, provides details, system saves data.

Login: Student provides credentials, system verifies against Loginmst table.

Create Profile: Student adds data, system creates profile in Profilemst table, confirms.

Select Company: Student requests company list, system retrieves from Companymst, student selects.

Apply for Job: Student requests to apply, system retrieves job details from Jobmst, student submits application, system saves data.

Participate in Quiz: Student requests to take quiz, system retrieves quiz details from Quizmst, student takes quiz, system records results.

Track Placement: Student requests application status, system provides information.

Logout: Student logs out of the system.

- **Admin (TPO) Module:**

Login: Admin logs in, system verifies credentials and access levels.

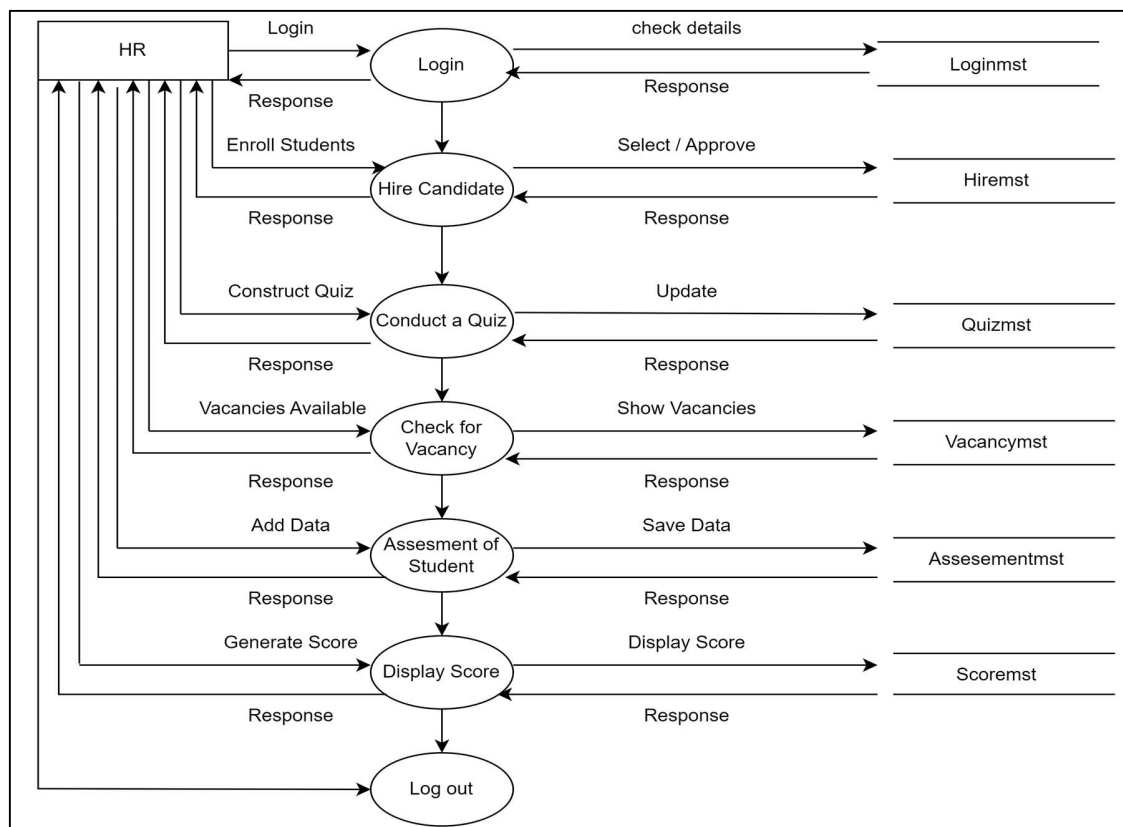
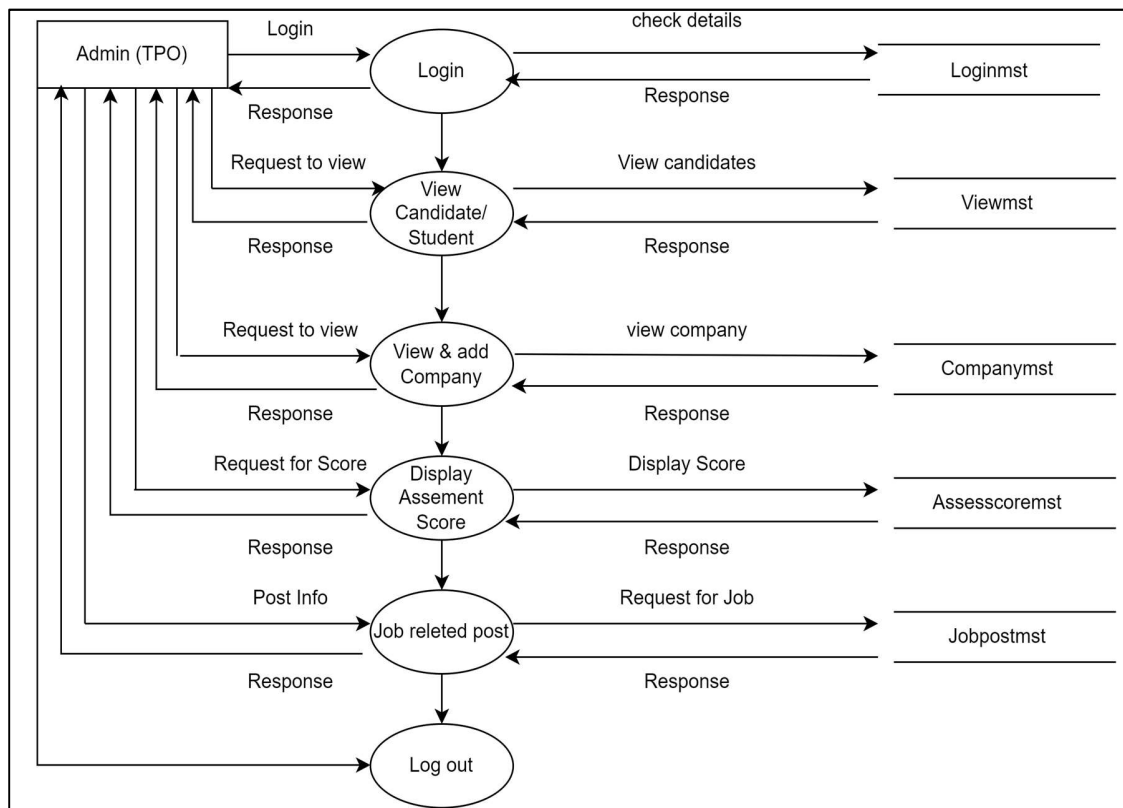
View Candidates: Employee requests candidate details, system displays from 'Viewmst' table.

View & Add Companies: System shows list of companies, allows addition to 'Companymst'.

Display Score: System shows assessment score from 'Assesscoremst' table.

Job Post: Recruiter fills job opening details, system saves in 'Jobpostmst'.

Logout: Admin logs out of the system.



- **HR Module:**

Login: HR logs in, system verifies credentials; on correct input, grants access, otherwise prompts for re-entry.

Hire Candidate: HR selects/approves candidates based on skills.

Conduct Quiz: HR constructs and conducts quizzes for candidate evaluation.

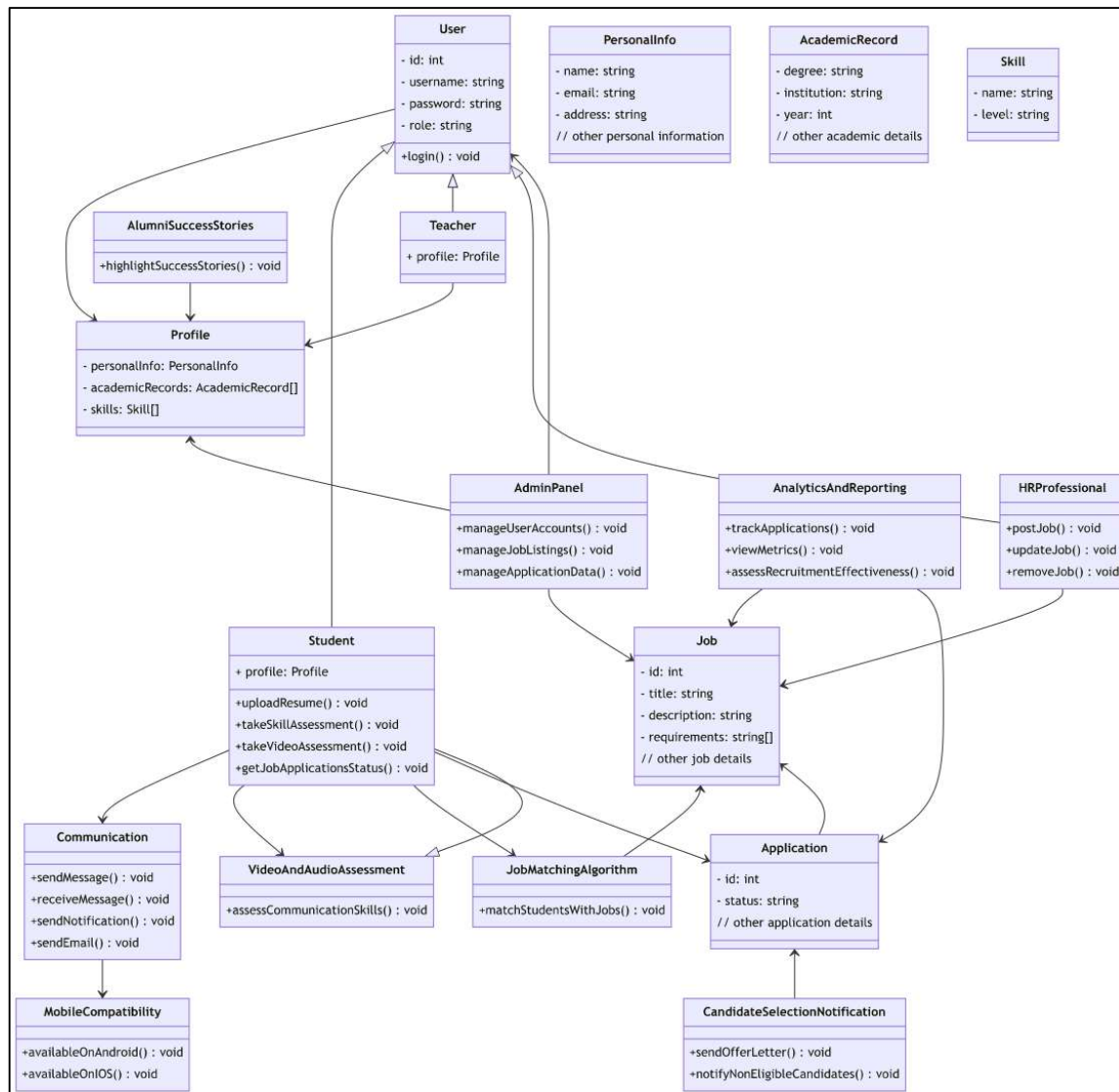
Check Vacancy: HR checks available vacancies, linked to 'Vacancymst' database.

Assessment: HR adds assessment data (e.g., personality, aptitude), system saves.

Display Score: System generates and displays scores to HR.

Logout: HR logs out of the system.

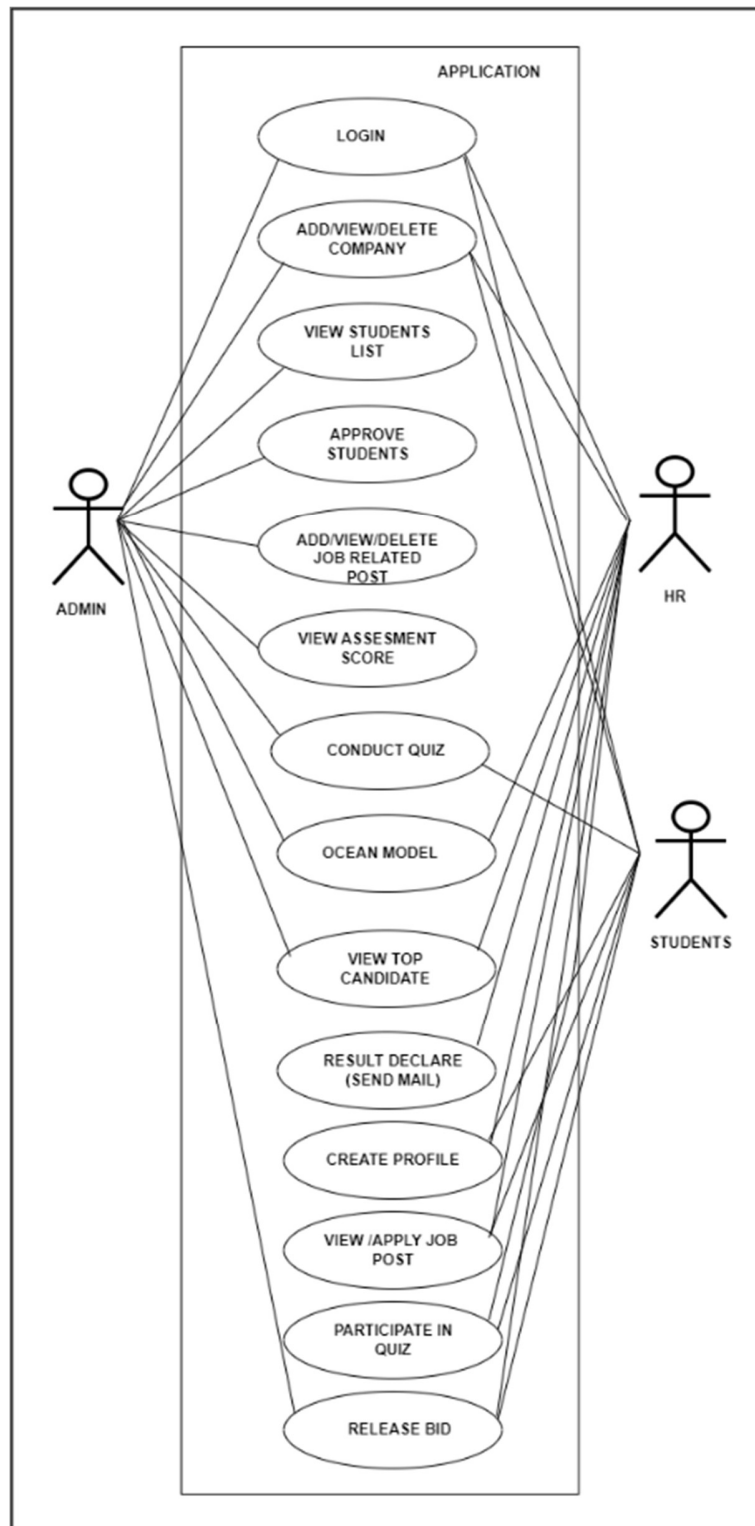
2. Class Diagram:



Class Diagram is a static structure diagram that describes the structure of a system by showing the system classes, their attributes, operations and relationships.

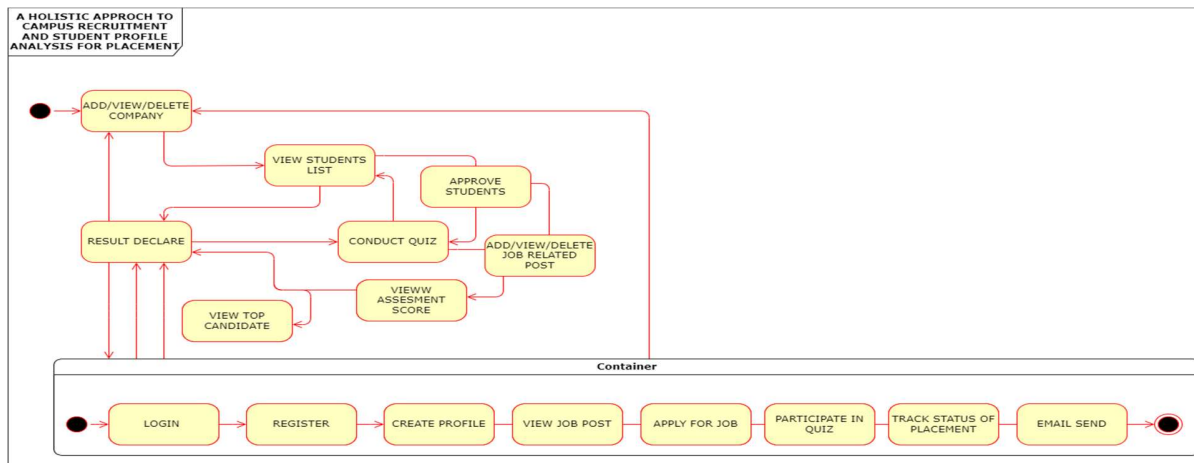
This system appears to be a comprehensive platform for managing various aspects of campus recruitment, including student and employer interactions, job postings, assessments, and administrative functions.

3. System Usecase



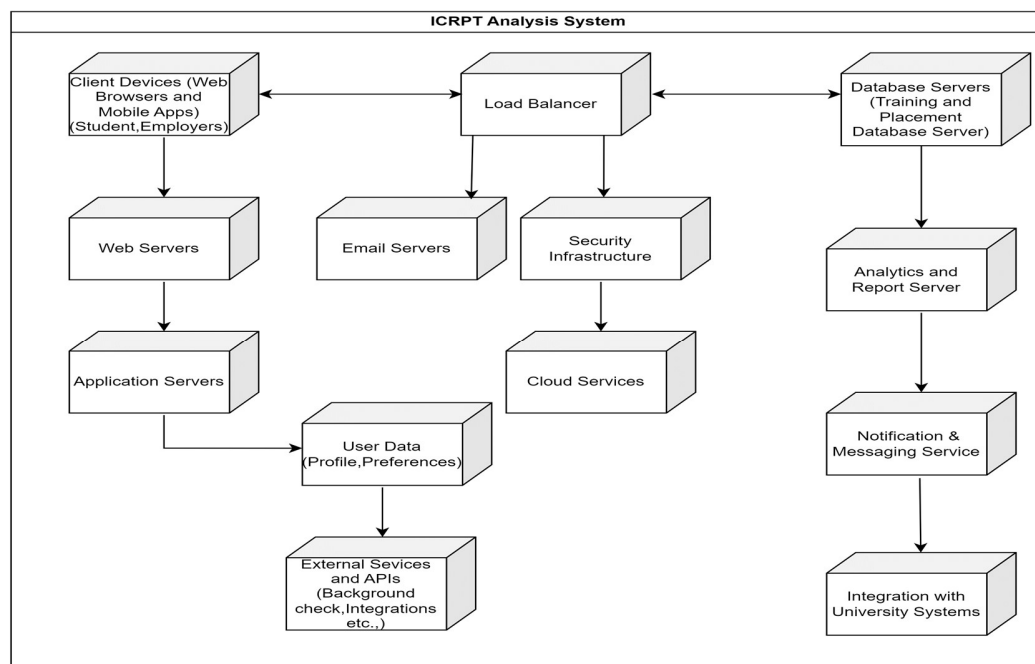
A use case diagram is a visual representation of the interactions and relationships between different actors and the system or application they use. In this case, we are creating a use case diagram for a student module that encompasses various functionalities such as registration, login, creating a profile, selecting a company, applying for a job, participating in a quiz, tracking placement status, receiving notifications, and logging out.

4.State Chart Diagram



The state diagram shows the states of an object and represents activities as arrows connecting the states. The Activity Diagram highlights the activities. Each activity is represented by a rounded rectangle-narrower and more oval-shaped than the state icon. An arrow represents the transition from the one activity to the next. The activity diagram has a starting point represented by filled-in circle, and an end point represented by bulls eye.

5.Deployment Diagram



The deployment diagram shows how the ICRPT system's components work together to provide a comprehensive solution for integrated campus recruitment, placement, and training analysis. It starts with users accessing the system through client devices, progresses through load balancing, web servers, and data processing on the application server. The system interacts with database servers, cloud services, and various other components to deliver a secure, reliable, and data-driven platform for both Students and Employers. The email server, security infrastructure, and integration with university systems add layers of functionality to meet the needs of all system stakeholders.