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**OOAD - MINI CASE STUDY**  
**CAMPUS RECRUITMENT SYSTEM : *ACTIVITY DIAGRAM***  
**ITERATION 2.0**

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## **ACTIVITY DIAGRAM**

It is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system. The basic purpose of activity diagrams is to capture the dynamic behaviour of the system.. It is also called object-oriented flowchart.

This UML diagram focuses on the execution and flow of the behaviour of a system instead of implementation. Activity diagrams consist of activities that are made up of actions that apply to behavioural modelling technology.

### **ADVANTAGES OF USING ACTIVITY DIAGRAM :**

Activity diagrams present a number of benefits to users. Consider creating an activity diagram to:

- Demonstrate the logic of an algorithm.
- Describe the steps performed in a UML use case.
- Illustrate a business process or workflow between users and the system.
- Simplify and improve any process by clarifying complicated use cases.

- Model software architecture elements, such as method, function, and operation.

## ACTIVITY DIAGRAMS DRAWN FOR :

1. Searching and Applying for a Job.
2. Placement Process.
3. Managing the Profile.

### 1. Activity diagram to Search and Apply a Job.

#### DESCRIPTION :

The activity focused here is to search and apply for a job. Firstly , The student must access their respective profile to search for a job and apply for it. The profile is submitted and the details are firstly verified , and then checked if the profile submitted is suitable for job qualifications. If yes, the recruitment details are sent to the registered and approved profiles, which completes the job applying activity.

PRE-CONDITION (START) : The student is registered.

#### Decisions involved :

- Login
  - check [ valid ] : access profile
  - check [ invalid ] : login
- Search job
  - wants to apply job [ yes ] : Fill all the details(application)

wants to apply job [ no ] : terminate

- Verify details

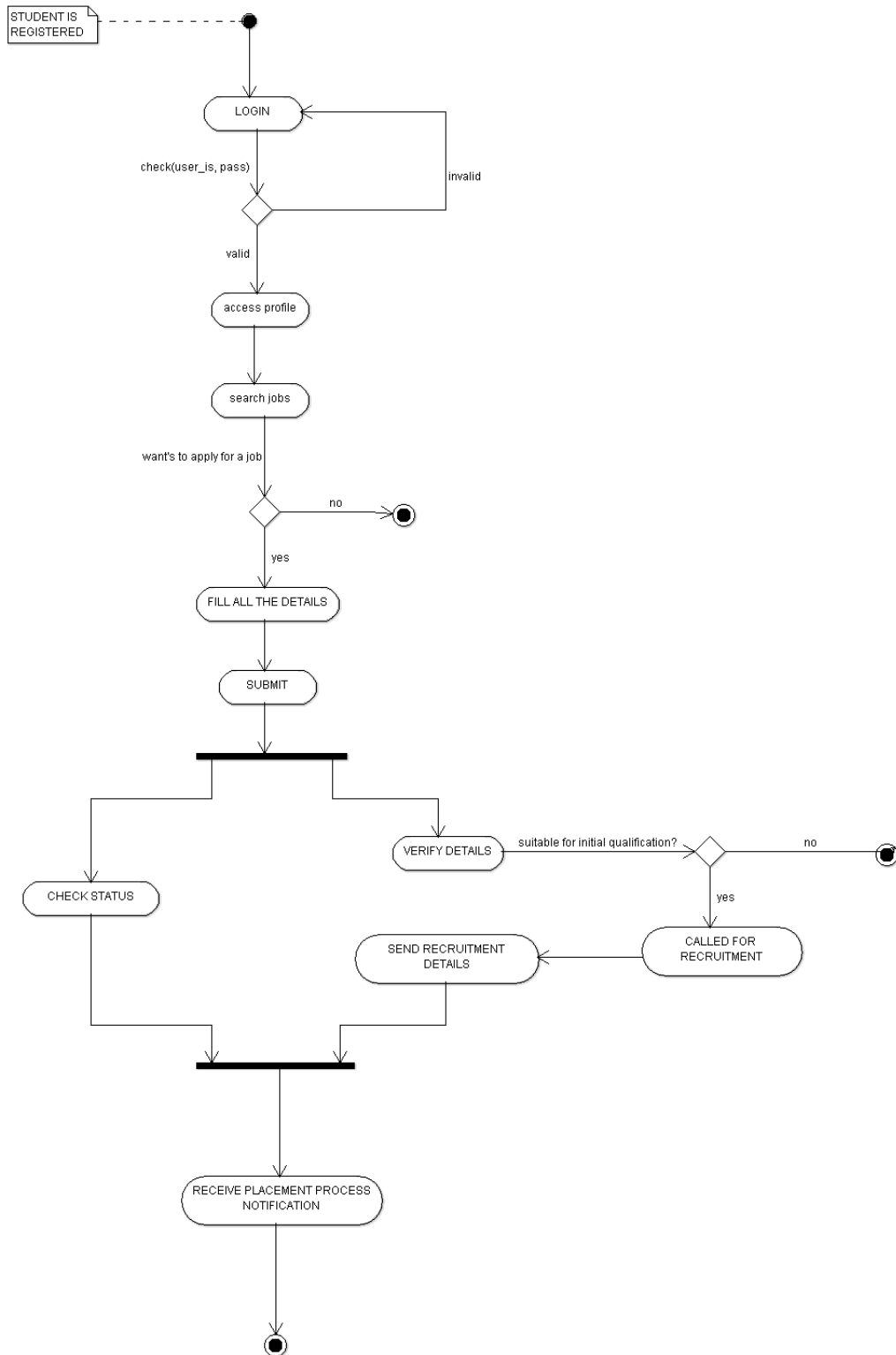
suitable for initial qualification [ yes ] : called for recruitment

suitable for initial qualification [ no ] : terminate

**NOTE :**

Fork is used after a student submits the application , and it's sent to the employer . While the students wait for the status about the application till it is being returned by the employer.

Join is used to merge two action states i.e check status and recruitment details sent .



## 2. Activity diagram for Placement Process.

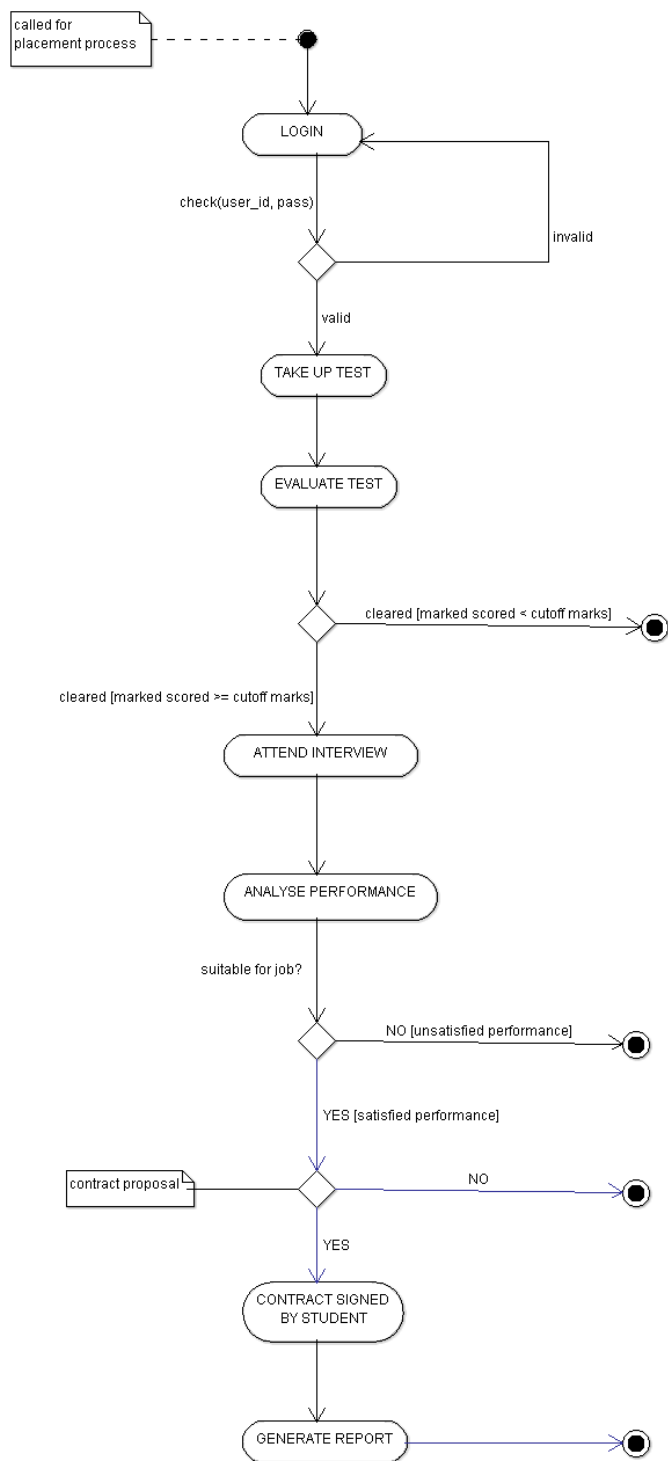
### DESCRIPTION :

The Placement process activity begins after a student is called for recruitment after being verified and approved by the company. The student logs into the system and then takes up a test . Based on the marks scored, a student is called for an interview and the performance is analysed. If the employer is satisfied by the performance, a contract proposal is signed by the student and finally a placement report is generated.

**PRE-CONDITION (START) :** The student must have been called for recruitment .

### Decisions involved :

- Login
  - check [ valid ] : access profile
  - check [ invalid ] : login
- Evaluate test
  - cleared [ marks scored  $\geq$  cut off ] : Attend interview
  - not cleared [ marks scored  $<$  cut off ] : Terminate
- Analyse performance
  - suitable for a job ? [ no ] : Terminate
  - suitable for a job ? [ yes ] : contract proposal [ yes ] : Contract signed by student
  - contract proposal [ no ] : Terminate



### **3. Activity diagram for managing profiles :**

#### **DESCRIPTION :**

The profile management activity involves both primary and secondary actors , All three actors i.e student, admin and company logs into the system. And their respective activities based on profile management are carried out . The student views and updates the profile , and can proceed with the flow using the profile or can log out. Similarly, the admin can post job vacancies , short list candidates or mail students. The admin manages profiles , can add profiles or view reports of profiles created. The termination will be logging out of the system.

#### **Decisions involved :**

- Login
  - check [ valid ] : access profile
  - check [ invalid ] : login
- viewprofile
  - wants to update profile [ yes ] : Update profile
  - wants to update profile [ yes ] : Search job

