

OOAD - MINI CASE STUDY

CAMPUS RECRUITMENT SYSTEM : *SYSTEM STATE DIAGRAM*

ITERATION 2.0

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STATE DIAGRAM :

A state diagram is used to represent the condition of the system or part of the system at finite instances of time. It's a behavioural diagram and it represents the behaviour using finite state transitions. State diagrams are also referred to as **State machines** and **State-chart Diagrams**. These terms are often used interchangeably. So simply, a state diagram is used to model the dynamic behaviour of a class in response to time and changing external stimuli. We can say that each and every class has a state but we don't model every class using State diagrams. We prefer to model the states with three or more states.

Uses of state-chart diagram :

1. We use it to state the events responsible for change in state
2. We use it to model the dynamic behaviour of the system .
3. To understand the reaction of objects/classes to internal or external stimuli.

State Diagram :

1. State diagram - Student
2. State diagram - Profile
3. State diagram - Job

State Machine diagram for Student :

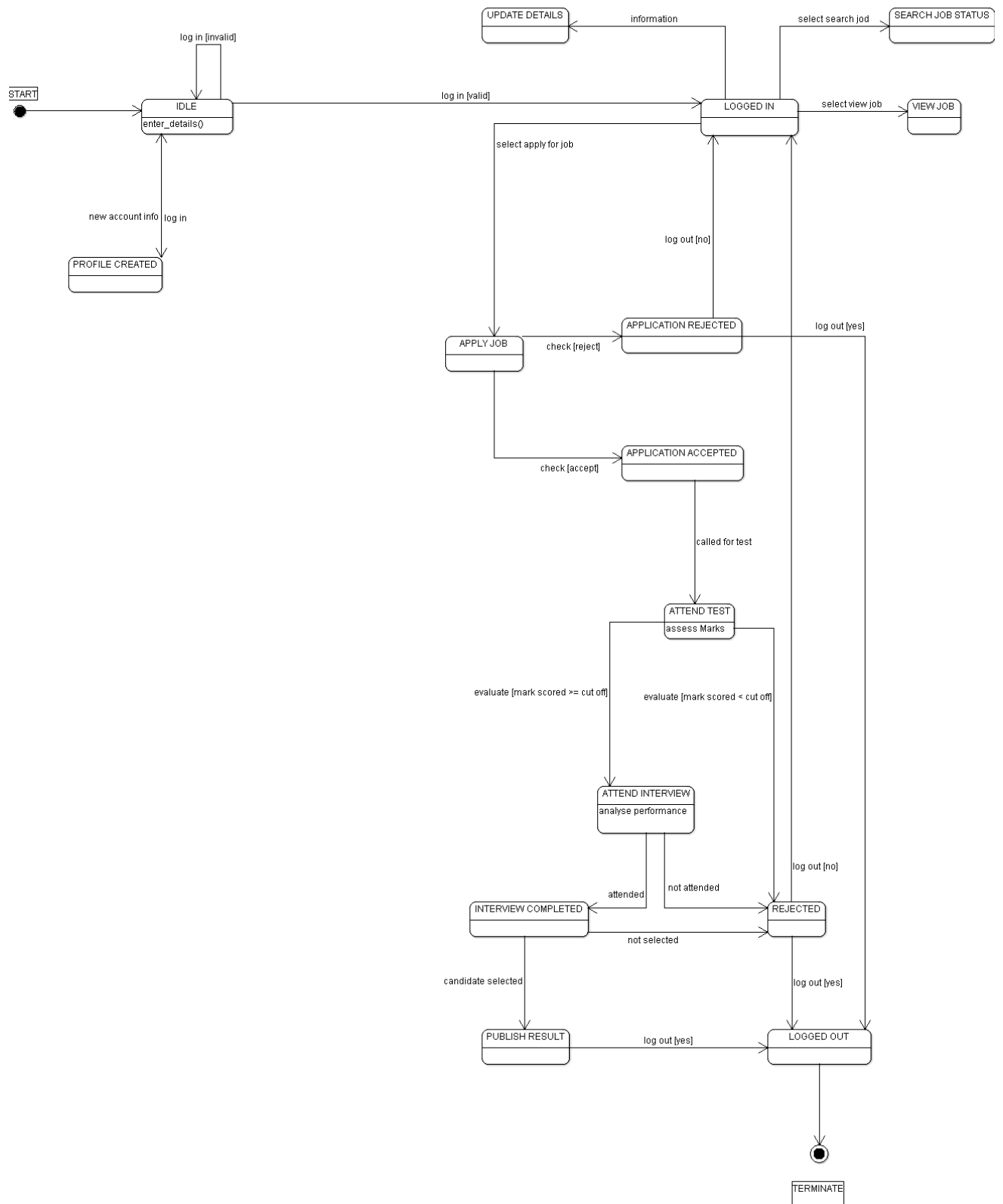
STATES INVOLVED :

IDLE	PROFILE CREATED	UPDATE DETAIL
VIEW JOB	LOGGED IN	SEARCH JOB STATUS
APPLY JOB	APPLICATION REJECTED	ATTEND TEST
APPLICATION ACCEPTED	ATTEND INTERVIEW	INTERVIEW COMPLETED
REJECTED	PUBLISH RESULT	LOGGED OUT

DESCRIPTION :

In this state diagram , the following steps take place :

1. The student has logins in from idle state.
2. There are many options present once logged in , a student can update details, check job status, view for jobs and apply .
3. If applied for a job , the application is accepted / rejected.If accepted the student is called for a test.
4. Else , the student has the option of staying in or logging out.
5. Based on the performance in the test , a student is called for an interview or can log out.
6. After analysing a student in the interview , the student is either rejected or if selected , The results are published.



State Machine diagram for Profile :

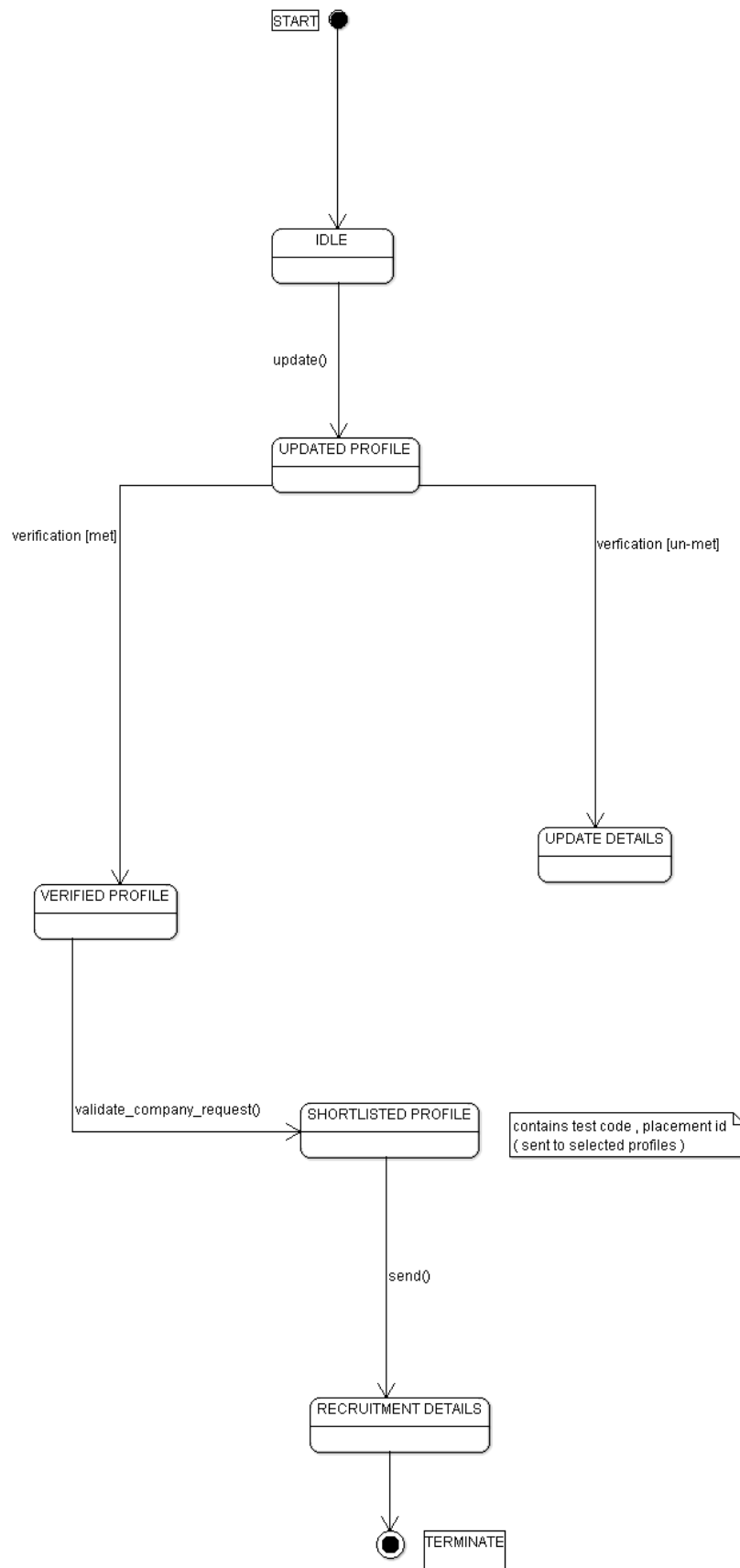
STATES INVOLVED :

IDLE	RECRUITMENT DETAILS
PROFILE	UPDATED PROFILE
UPDATE DETAIL	VERIFIED SHORTLISTED PROFILE

DESCRIPTION :

In this state diagram , the following steps take place

1. A profile can be updated or created .
2. The profile is matched up with requirements by the company.
3. If met , the profile becomes a verified profile. And can be shortlisted by the company.
4. If not, the profile must be updated again.
5. The recruitment details are sent to shortlisted profiles and the diagram terminates.



State Machine diagram for Job :

STATES INVOLVED :

RECRUITMENT SYSTEM	STUDENT LOGGED IN
COMPANY LOGGED IN	VIEW JOB NOTICE
POST JOB VACANCIES	APPLY JOB APPLICATION
ANALYSE JOB APPLICATION	GENERATE PLACEMENT REPORT
CHECK JOB REPORT	ATTEND PLACEMENT PROCESS

DESCRIPTION :

In this state diagram , the following steps take place

1. The student's and the company's accounts are firstly verified using their recruitment code.
2. The company can then post job vacancies, and student's can check the job vacancies as notices in the system.
3. The student can apply for the job and the job application is analysed by the company.
4. The company then generates a placement report which is notified to the students .
5. If a student is selected for a Job, the student can continue with the placement process.

