

Use Case Diagram :-

A Use Case captures a contract that describes the system behaviour under various conditions as the system responds to a request from one of its stakeholders. In essence, a Use Case tells a stylized story about how an end user interacts with the system under a specific set of circumstances.

The first step in writing a Use Case is to define the set of "actors" that will be involved in the story.

Actors of the given scenario :-

- i) Students.
- ii) Project Coordinator (Teacher/Admin)
- iii) CR
- iv) Supervisor
- v) Facebook.
- vi) Github.

Here, ① & ② are primary actors and others are secondary actors.

Level : 0

Name : Software Project Management Application (SPMA)
Primary Actor : Students, Project Coordinator (Teacher/ Admin)

Secondary Actor: CR, Supervisor, Facebook, Github.

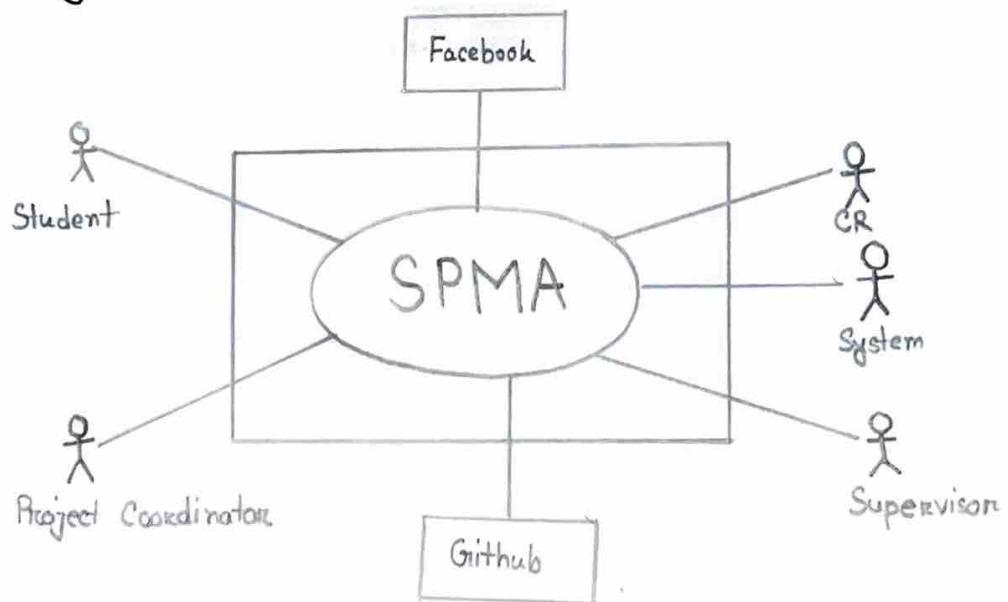


Fig : Level 0 SPMA

Level : 1

Name : Software Project Management Application (SPMA)- detailed.

Primary Actor: Students, Project Coordinator (Teacher/ Admin)

Secondary Actor: CR, Supervisor, Facebook, Github.

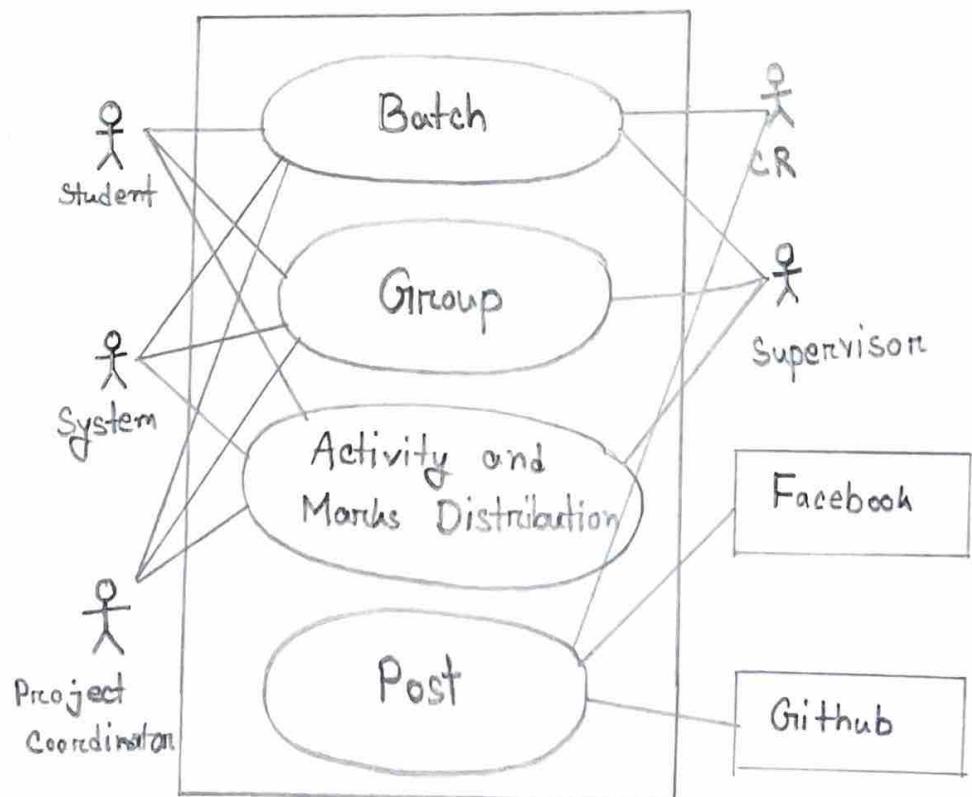


Fig : UCD Level 1

Description of the Use Case Diagram Level :1

1. Batch : The project coordinator adds students as members to the application. The Coordinator can add one or more students as CR. The CR, in turn, can add classmates to the system. The admin registers themselves in the application by providing their Name and ID. The admin who is also the project coordinator can add other teachers as supervisors.

2. Group : The project coordinator creates groups within the application. Each group can contain one or multiple students. Students specify group name and project title. The Project Coordinator allocates supervisors to groups.

3. Activity and Marks distribution : Each group presents their progress weekly to the coordinator. The coordinator maintains attendance based on the progress presentations. Marks are allocated based on attendance and various project milestones, such as project proposal presentation, mid-presentation, final presentation, code review, project showcasing and final report. The sum of attendance is converted to marks.

4. Post : The CR posts activity related notices. Notices are automatically posted on the Facebook group. Project-related data, such as code and reports, are stored on Github. The Github link for each group is available in the application. Timely activity notices are displayed in the upcoming activity corner.

Level 1.1

Name : Batch

Primary actor : Students, Project Coordinator(Admin).

Secondary actor : CR, Supervisor.

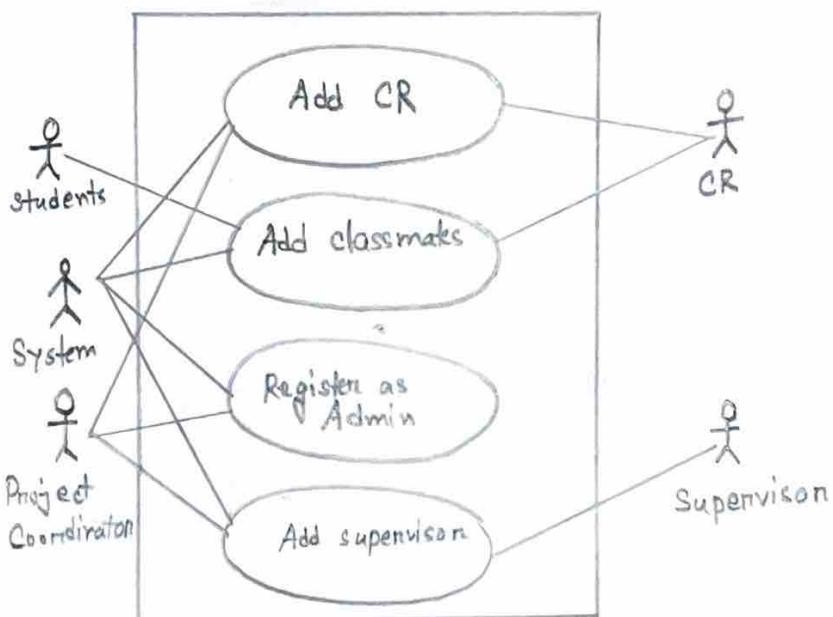


Fig : UCD level 1.1

Description : Admin can add students as CR, register him/herself as Admin and add teachers as supervisors. CR can add classmates. Students will be added after giving Roll Number and Name.

Action and Reply :

Action : Admin adds students as CR.

Reply : System adds CR.

Action : Admin selects teachers for supervisory role.

Reply : System adds supervisor

Action : Coordinator gives Name and ID.

Reply : System makes him/her an Admin.

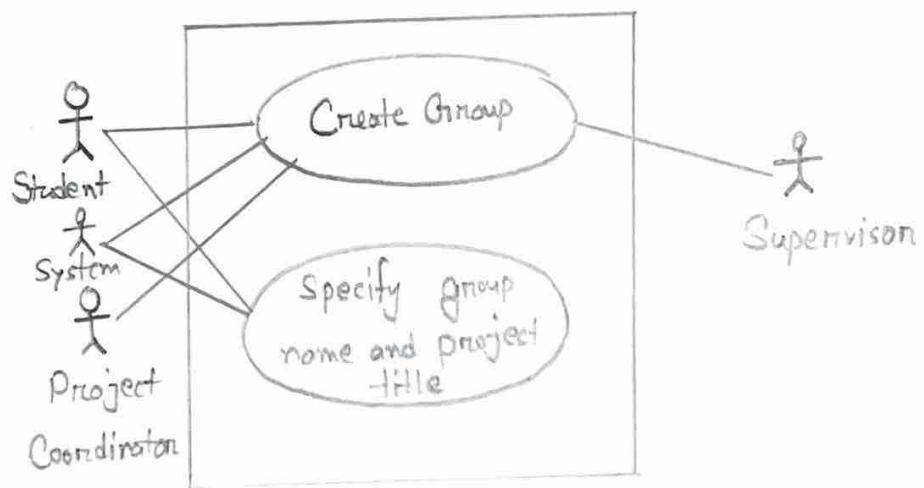
Action : CR puts classmates' Name and Roll Number

Reply : System adds student.

Level 1.2

Name : Group.

Primary Actor: Project Coordinator, Students, System.
Secondary Actor: Supervisor.



Description :

Project Coordinator creates group of multiple students and allocates a supervisor. Students specify group name and project title.

Action and Reply :

Action : Coordinator selects students for group.

Reply : System creates group.

Action : Admin / Project Coordinator selects supervisor for a group.

Reply : System sets supervisor for group.

Action : Students specify group name and project title.

Reply : System sets group name and project title.

Level 1·3

Name : Activity and Marks Distribution.

Primary Actors : Students, Project Coordinator, System

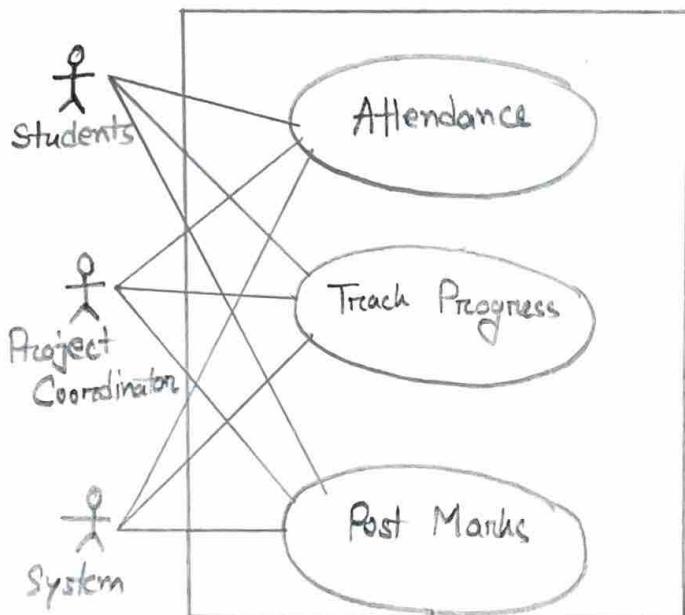


Fig : UCD level 1·3

Description :

Each group presents their progress weekly to the coordinator. The coordinator maintains attendance based on the progress presentation. Marks are allocated based on attendance and various project

milestones. The sum of attendance is converted to marks.

Action and Reply:

Action : Students show progress.

Reply : Coordinator gives attendance.

Action : Students will give presentation, participate in project showcasing show code.

Reply : Coordinator will review student's work.

Action : Coordinator will post marks.

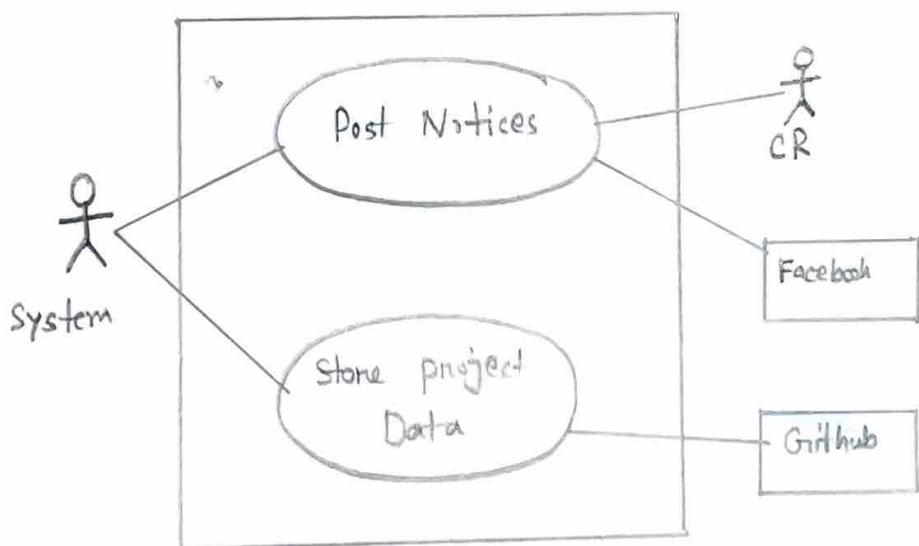
Reply : Students can see the marks.

Level 1.4 :

Name : Post.

Primary Actors : System

Secondary Actors : CR, Facebook, Github.



Description :

All activity related notices will be posted by CR. These notices will automatically be posted to Facebook group by the system. All project related data should be kept in github.

Action and Reply :

Action : CR can post notices.

Reply : System will show those notices.

Action : Students should provide GitHub links to store project related data.

Reply : System provides links for project review.