

4.2 Use Case Diagrams

Use case diagrams give the non-technical view of overall system.

4.2.1 System Description from Level-0 use case:

After analyzing the user story we found one actors who will directly use the system as a system operator. Primary actors are those who will play action and get a reply from the system whereas secondary actors only produce or consume information. Following is the actor of SPS system–

□ User

Here in our SPS system we have one actor interacting with the system:

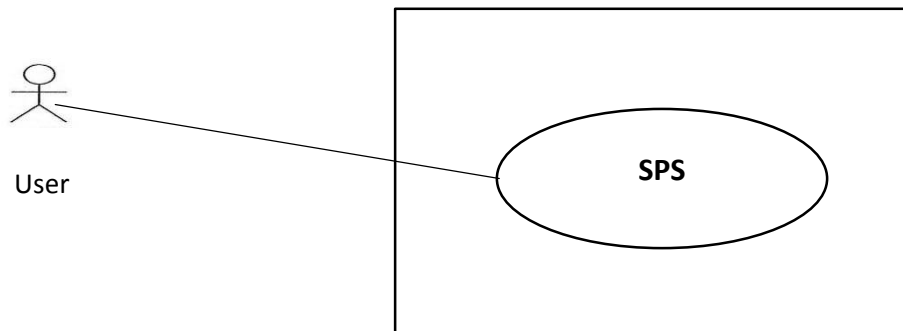


Figure: Level 0

4.2.2 System description from level-1 use case diagram:

The actors of SPS have to play different actions and system will reply according to these actions –

User:

Action1: Click signup.

Reply1: Please fill up the required information.

Action2: Enters the information.

Reply2: Registration successful.

Action3: Enters username and password.

Reply3: Login successful.

Action4: Giving required input for seat planning.

Reply4: Input taken.

Action5: Click on create seat plan.

Reply5: Seat plan created.

Action6: Interchanging values of Seat Plan.

Reply6: Seat Plan Modified.

Action7: Including teacher's duty.

Reply7: teacher's duty assigned.

Action8: Sending email to students regarding seat plan.

Reply8: Email sent.

Action9: Downloading seat plan.

Reply9: Pdf of seat plan downloaded.

Level-1 use case diagram for Seat Planning System:

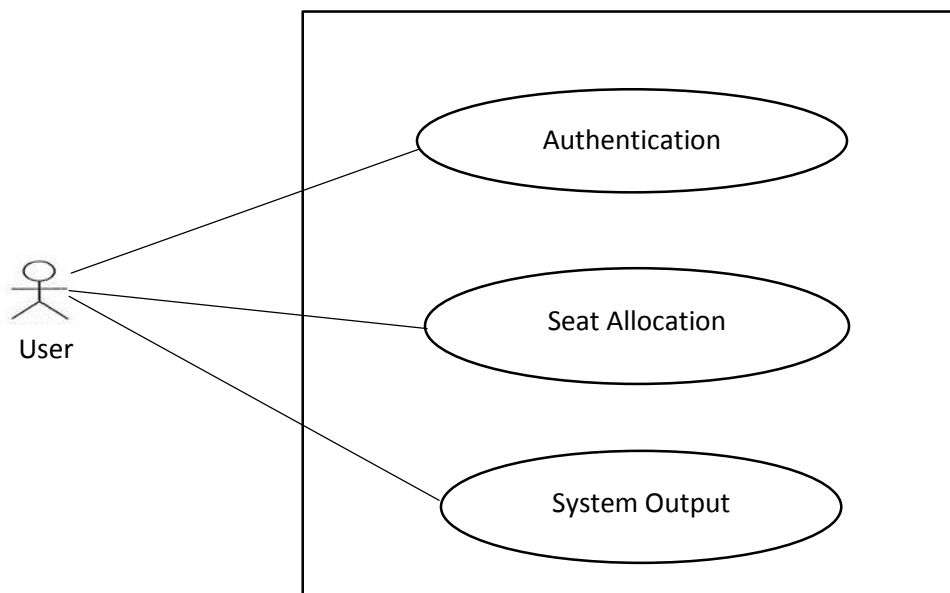


Figure: Level 1

Subsystems of Authentication: If any actor wants to perform any task then he needs to go through the authentication process. At first the actor need to have an account if they want to interact with the system. If they have not any account then they need to sign up.

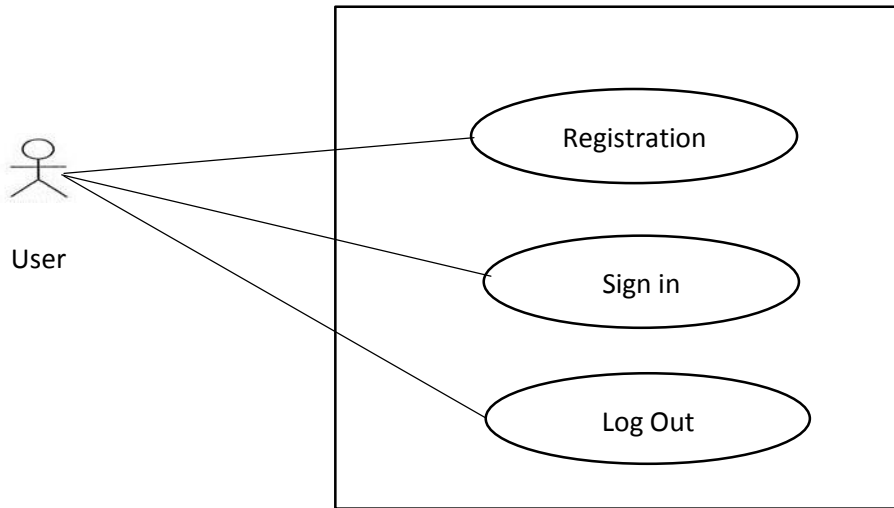


Figure: Level 2.1

Subsystems of Seat Allocation: User have to give required input such as room number, column number, students number to make a seat plan. Then User can modify the seats and including teacher's duty to the seat plan.

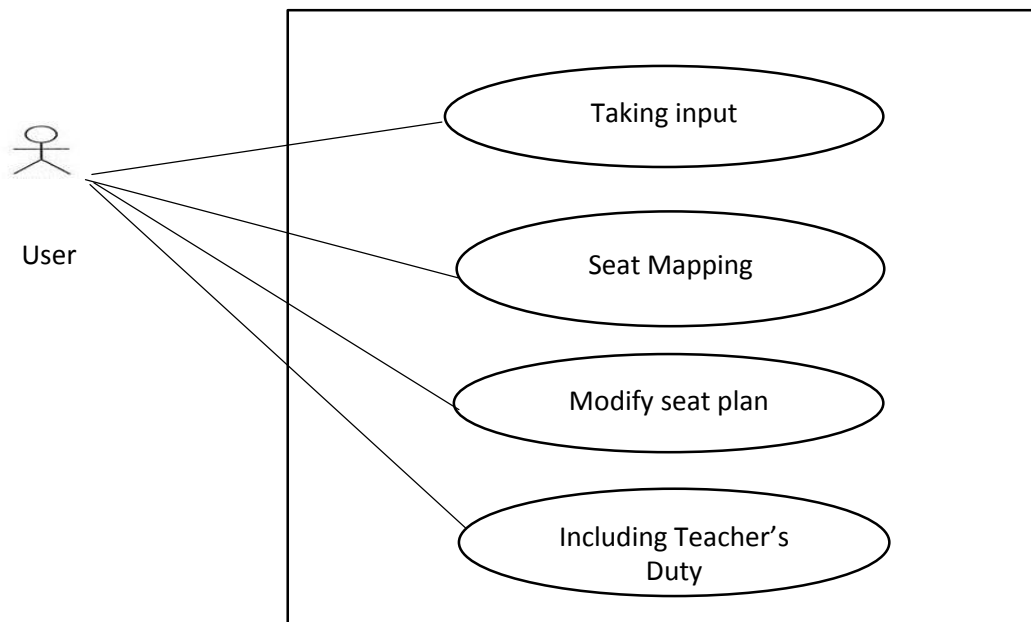


Figure: Level 2.2

Subsystems of System output: User can send mail to the students about their exam seat plan. User can also download the seat plan as pdf format.

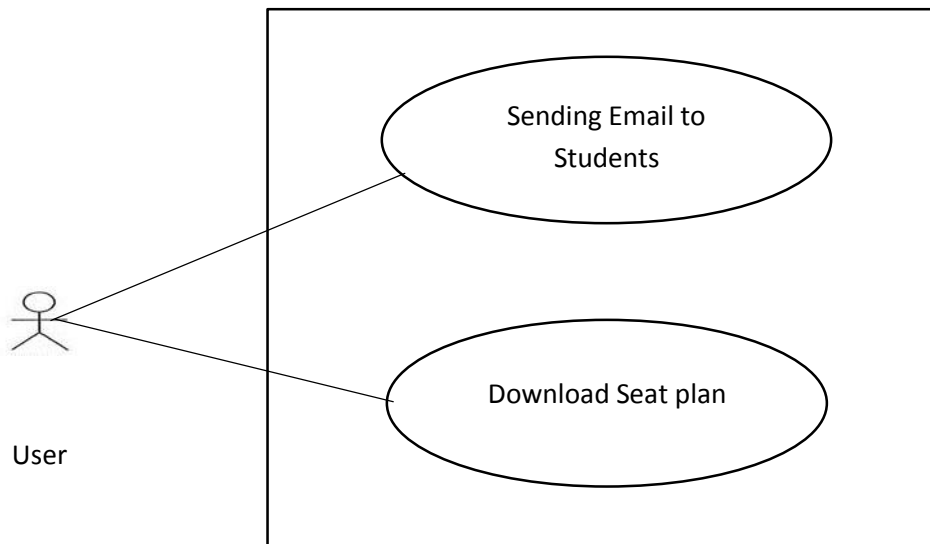


Figure: Level 2.3