Struggling Developers – Room Booking System

Iteration 1

Use Case Definition – Long Form

- Who is the primary actor, the secondary actor (s)?
  The primary actor for iteration 1 is the User (Faculty/Student).

- What are the actor's goals?
  The actor's goals are to either sign up for the Room booking system, login to the existing profile, book a room, edit a booked room, or delete a booking.

- What preconditions should exist before the story begins?
  The user should have a profile in the system and should be logged in to manage bookings.

- What main tasks or functions are performed by the actor?
  The actor can alter their profile information, book a room, edit their booking, or delete a booking.

- What extensions might be considered as the story is described?
  Other than managing their profile and their booking, a user can view details of the rooms in the college and filter them based on equipment availability in each room.

- What variations in the actor's interaction are possible?
  A logged in user can directly book a room, or view details of rooms before booking, or filter rooms based on equipment before booking.

- What system information will the actor acquire, produce, or change?
  The actor can change their profile information (ex: address or phone number) and booking details.

- Will the actor have to inform the system about changes in the external environment?
  In case of change in email address, the actor would need to inform the system. Other than that, the actor does not need to, but can inform the system and make changes to their profile or booking.

- What information does the actor desire from the system?
  The actor desires to see which rooms can be booked, the details such as it's capacity, equipment, and to book a room.

- Does the actor wish to be informed about unexpected changes?
  Not applicable for iteration 1.

Use Case Diagram

Iteration 1 Use Case Diagram: Room Booking System

Room Booking System

User management system

Register if not a user

«include»

Provide requested information

Login

Booking management system

View Rooms

Filter rooms based on equipment available

Create/Update/Delete Booking records

«include»

Select details of booking

User (Student /Faculty)