

Assignment: Mobile Application Project

Planning Using Taiga

App Name : College Room Availability Management System (CRAMS)

Problem Statement :

In many colleges, classroom and laboratory bookings are handled manually using registers or verbal communication. This leads to problems such as double booking of rooms, lack of real-time availability, confusion among staff, and poor transparency in room allocation. Hence, there is a need for a digital system to manage room availability and bookings efficiently.

Target Users are:

1. Faculty Members / Staff
2. College Administration / Timetable Coordinators
3. Event Coordinators / Clubs

Screenshot – Project Dashboard:

The screenshot shows the Taiga project dashboard for 'College Room Availability Management System – Agile Planning'. The left sidebar includes links for 'Scrum' and 'Issues'. The main area displays a summary of the project, stating: 'Many colleges manage classroom and laboratory bookings manually using registers or verbal communication. This leads to issues such as double booking, lack of real-time availability, difficulty in maintaining records, and miscommunication between staff. The College Room Availability Management System provides a centralized digital platform to view room availability, book rooms based on date and time slots, and manage booking records efficiently, thereby improving transparency and avoiding conflicts.' Below this summary, a list of recent activity items is shown:

- Swaroop R has created a new user story #16 As a user, I want to cancel or modify a booking so that I can handle changes in plans in College Room Availability Management System – Agile Planning. (a few seconds ago)
- Swaroop R has created a new wiki page Home in College Room Availability Management System – Agile Planning. (2 minutes ago)
- Swaroop R has updated the attribute "Status" of the task #12 UI Development which belongs to the user story #3 As a user, I want to check room details (type, capacity) so that I can choose a suitable room to in progress. (5 minutes ago)
- Swaroop R has updated the attribute "Status" of the task #15 Testing which belongs to the user story #2 As a user, I want to view available rooms so that I can find free classrooms or labs. to Ready for test. (5 minutes ago)
- Swaroop R has updated the attribute "Status" of the task #13 Backend Booking Logic which belongs to the user story #2 As a user, I want to view available rooms so that I can find free classrooms or labs. to In progress. (5 minutes ago)
- Swaroop R has created a new task #15 Testing in College Room Availability Management System – Agile Planning which belongs to the user story #2 As a user, I want to view available rooms so that I can find free classrooms or labs. (5 minutes ago)
- Swaroop R has created a new task #14 Conflict Validation in College Room Availability Management System – Agile Planning which belongs to the user story #2 As a user, I want to view available rooms so that I can find free classrooms or labs. (6 minutes ago)

Screenshot – Backlog:

The screenshot shows the Jira Scrum backlog for the "College Room Availability Management..." project. The top navigation bar includes links for "Projects", "Scrum", "Backlog", and "Issues". On the left, a sidebar provides access to "Search", "Wiki", "Team", and "Settings". The main area displays a backlog of 6 user stories, each with a summary, status (New), points (6), and a more button. A progress bar at the top indicates 0% completion of 36 defined points. To the right, a "1 SPRINTS" section shows "Sprint 1" from 24 Feb 2026 to 10 Mar 2026, with 0 closed tasks and 0 total. A "SPRINT TASKBOARD" section allows dropping stories from the backlog into the sprint board.

User Story	Status	Points
#1 As a user, I want to log in securely so that I can access the room booking system.	New	6
#2 As a user, I want to view available rooms so that I can find free classrooms or labs.	New	6
#3 As a user, I want to check room details (type, capacity) so that I can choose a suitable room	New	6
#4 As a user, I want to select date and time slots so that I can book rooms without conflicts.	New	6
#5 As a user, I want to book a room so that I can reserve it for my event or class.	New	6
#6 As an admin, I want to manage rooms and bookings so that the system data is maintained properly.	New	6

Screenshot – Sprint Board:

The screenshot shows the Jira Sprint 1 board for the "College Room Availability Management..." project. The top navigation bar includes links for "Projects", "Scrum", "Backlog", and "Sprint 1". On the left, a sidebar provides access to "Search", "Wiki", "Team", and "Settings". The main area displays a board with four columns: NEW, IN PROGRESS, READY FOR TEST, and CLOSED. Stories are moved between these columns. A progress bar at the top indicates 0% completion of 24 total points. The "IN PROGRESS" column currently contains 9 open tasks, 0 closed tasks, and 0 epicaine doses. A "ZOOM" dropdown menu is set to "Detailed".

Column	Tasks
NEW	#1 As a user, I want to log in securely so that I can access the room booking system. #2 As a user, I want to view available rooms so that I can find free classrooms or labs. #3 As a user, I want to check room details (type, capacity) so that I can choose a suitable room #4 As a user, I want to select date and time slots so that I can book rooms without conflicts.
IN PROGRESS	#11 Documentation #14 Conflict Validation #16 Backend Booking Logic #17 Testing
READY FOR TEST	#7 UI Development #9 Conflict Validation #13 Backend Booking Logic #15 Testing
CLOSED	#8 Backend Booking Logic #10 Testing #12 UI Development

The screenshot shows a project management interface for "College Room Availability Management...".

- Scrum:** Shows a progress bar at 0% with 42 defined points, 0 closed points, and 0 points/sprint.
- 2 SPRINTS:**
 - Sprint 2:** 10 Mar 2026-24 Mar 2026, 0 closed, 6 total. Includes user stories: #16 As a user, I want to cancel or modify a booking so that I can handle changes in plans (6).
 - Sprint 1:** 24 Feb 2026-10 Mar 2026, 0 closed, 24 total. Includes user stories: #1 As a user, I want to log in securely so that I can access the room booking system (6), #2 As a user, I want to view available rooms so that I can find free classrooms or labs (6), #3 As a user, I want to check room details (type, capacity) so that I can choose a suitable room (6), and #4 As a user, I want to select date and time slots so that I can book rooms without conflicts (6).
- Backlog:** 2 user stories. Includes filters, search, and a "Tags" button. Stories listed:
 - #5 As a user, I want to book a room so that I can reserve it for my event or class. Status: New, Points: 6.
 - #6 As an admin, I want to manage rooms and bookings so that the system data is maintained properly. Status: New, Points: 6.
- Left sidebar:** Includes links for Search, Wiki, Team, and Settings, and a "collapse menu" button.

Screenshot – Updated Backlog:

The screenshot shows the same project management interface after updates.

- Scrum:** Shows a progress bar at 0% with 42 defined points, 0 closed points, and 0 points/sprint.
- College Room Availability Management System – Agile Planning:** Project description: Many colleges manage classroom and laboratory bookings manually using registers or verbal communication. This leads to issues such as double booking, lack of real-time availability, difficulty in maintaining records, and miscommunication between staff. The College Room Availability Management System provides a centralized digital platform to view room availability, book rooms based on date and time slots, and manage booking records efficiently, thereby improving transparency and avoiding conflicts.
- Activity feed:**
 - Swaroop R has added the user story #16 As a user, I want to cancel or modify a booking so that I can handle changes in plans to Sprint 2. (a few seconds ago)
 - Swaroop R has created a new sprint Sprint 2 in College Room Availability Management System – Agile Planning. (a few seconds ago)
 - Swaroop R has created a new user story #16 As a user, I want to cancel or modify a booking so that I can handle changes in plans in College Room Availability Management System – Agile Planning. (a minute ago)
 - Swaroop R has created a new wiki page Home in College Room Availability Management System – Agile Planning. (2 minutes ago)
 - Swaroop R has updated the attribute "Status" of the task #12 UI Development which belongs to the user story #3 As a user, I want to check room details (type, capacity) so that I can choose a suitable room to In progress. (6 minutes ago)
 - Swaroop R has updated the attribute "Status" of the task #15 Testing which belongs to the user story #2 As a user, I want to view available rooms so that I can find free classrooms or labs. to Ready for test. (6 minutes ago)
 - Swaroop R has updated the attribute "Status" of the task #13 Backend Booking Logic which belongs to the user story #2 As a user, I want to view available rooms so that I can find free classrooms or labs. to In progress. (6 minutes ago)
 - Swaroop R has created a new task #15 Testing in College Room Availability Management System – Agile Planning which belongs to the user story #2 As a user, I want to view available rooms so that I can handle changes in plans. (6 minutes ago)
- Left sidebar:** Includes links for Search, Wiki, Team, and Settings, and a "collapse menu" button.

REFLECTION:

This project helped me understand how Agile methodology works in real-world scenarios. By using Taiga, I learned how to create a product backlog, write user stories, assign story points, and plan sprints. Breaking user stories into tasks such as UI development, backend logic, testing, and documentation made the development process more organized. Adding new requirements to Sprint 2 showed how Agile supports change without disturbing current sprint work. Overall, this activity improved my understanding of sprint planning and task management using Agile tools