

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 displays the Taiga project dashboard for the 'College Room Availability Management System – Agile Planning' project. The interface includes a sidebar with navigation options: Projects, Scrum, Issues, Search, Wiki, Team, and Settings. The main content area shows the project title, a description of the system's purpose, and a list of recent activities. The activities list includes user stories, tasks, and updates, each with a timestamp and a 'Team' section. The 'Team' section shows a list of team members, with one member highlighted.

College Room Availability Management System – Agile Planning

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.

Team

- 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:

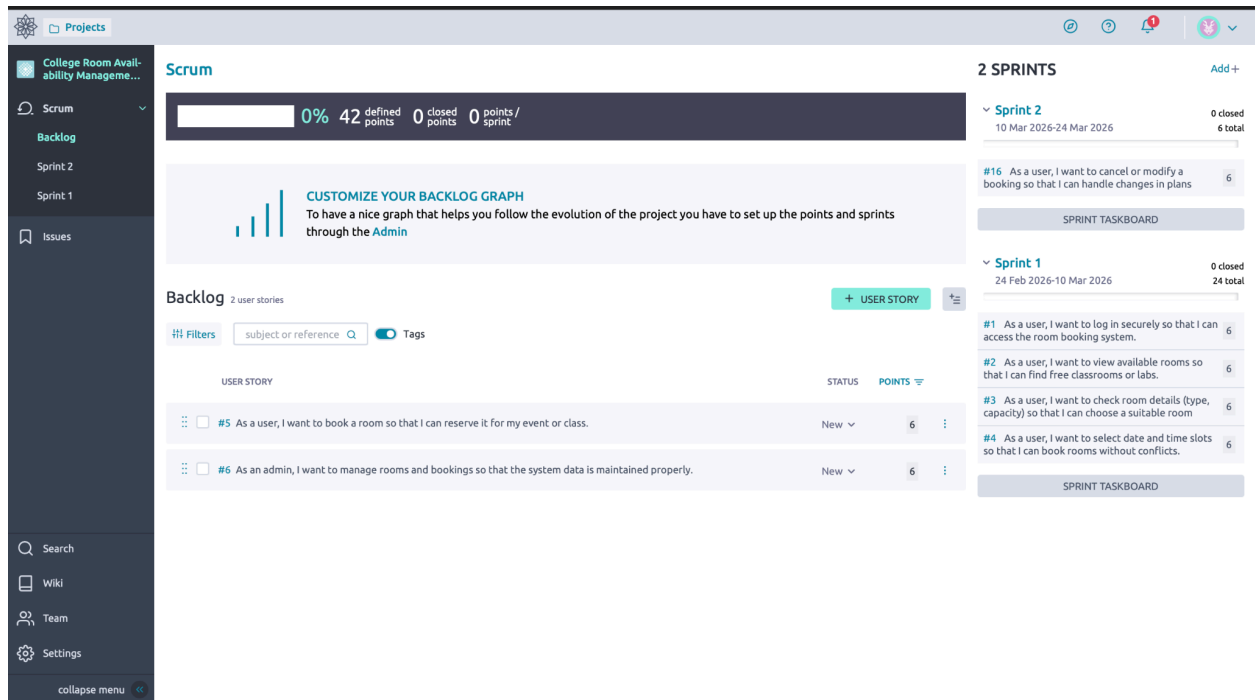
The screenshot shows the Jira Backlog view for the 'College Room Availability Management' project. The left sidebar contains navigation links for Scrum, Backlog, Issues, Search, Wiki, Team, and Settings. The main area is titled 'Scrum' and displays a progress bar at 0% with 36 defined points, 0 closed points, and 0 points per sprint. Below this is a section for 'CUSTOMIZE YOUR BACKLOG GRAPH' with a link to the Admin page. The 'Backlog' section shows 6 user stories, each with a checkbox, ID, description, status, and points. A '+ USER STORY' button is available. On the right, a '1 SPRINTS' section shows 'Sprint 1' from Feb 24 to Mar 10, 2026, with 0 closed and 0 total tasks. A dashed box indicates where to drop stories to start a new sprint, and a 'SPRINT TASKBOARD' button is at the bottom.

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

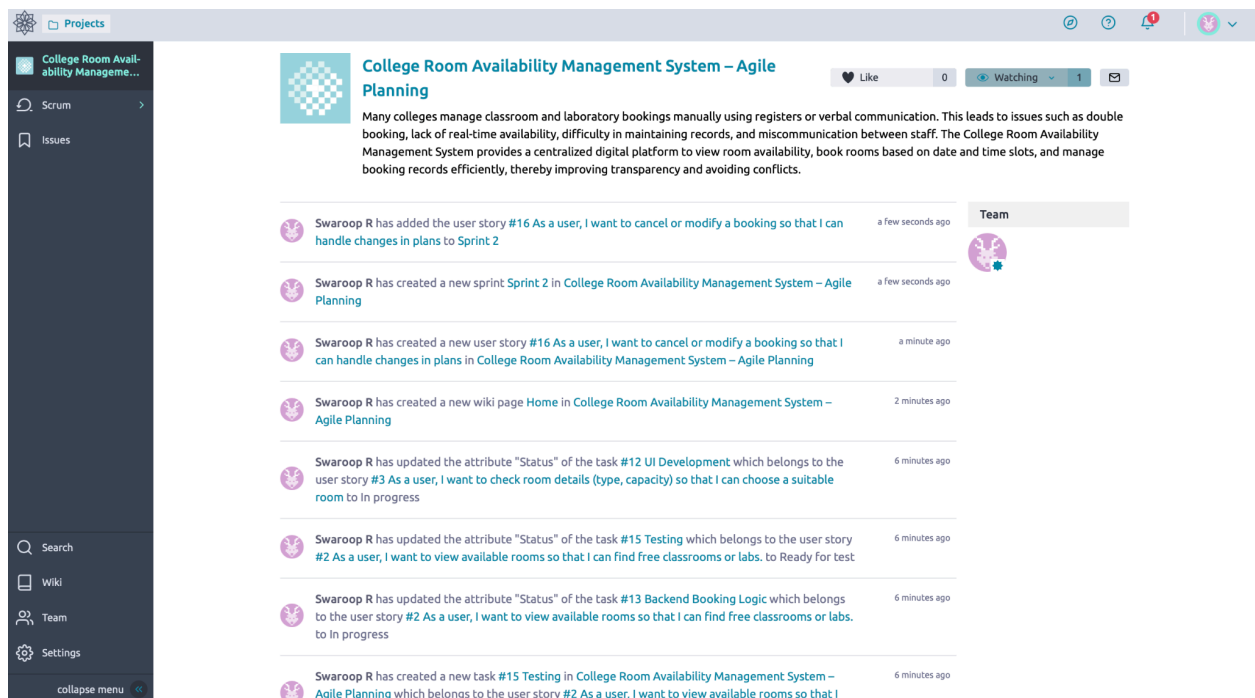
Screenshot – Sprint Board:

The screenshot shows the Jira Sprint Board view for 'Sprint 1' (Feb 24 to Mar 10, 2026). The top bar shows progress at 0% with 24 total points, 0 completed points, 9 open tasks, 0 closed tasks, and 0 inactive doses. The board is divided into four columns: NEW, IN PROGRESS, READY FOR TEST, and CLOSED. Each column contains user stories with their IDs, descriptions, and points. The 'NEW' column has stories #1, #2, #3, and #4. The 'IN PROGRESS' column has stories #7, #9, #12, and #13. The 'READY FOR TEST' column has stories #8, #10, and #15. The 'CLOSED' column is empty. A 'ZOOM' control is visible at the top right of the board area.

USER STORY	NEW	IN PROGRESS	READY FOR TEST	CLOSED
#1 As a user, I want to log in securely so that I can access the room booking system. (6 pts)	#11 Documentation (Not assigned)	#7 UI Development (Not assigned) #9 Conflict Validation (Not assigned)	#8 Backend Booking Logic (Not assigned) #10 Testing (Not assigned)	
#2 As a user, I want to view available rooms so that I can find free classrooms or labs. (6 pts)	#14 Conflict Validation (Not assigned)	#13 Backend Booking Logic (Not assigned)	#15 Testing (Not assigned)	
#3 As a user, I want to check room details (type, capacity) so that I can choose a suitable room (6 pts)		#12 UI Development (Not assigned)		
#4 As a user, I want to select date and time slots so that I can book rooms without				



Screenshot – Updated Backlog:



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