**Sprint 2 Report for Room Booking System for Student Dormitories**  
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**Course:** CPTS 451  
**Sprint Duration:** March 10 – March 31, 2025  
**Submission Date:** April 3, 2025

**Video Link:**

*📌 https://youtu.be/Jh58lVcA6D4*

**GitHub Repository:**

*📌 https://github.com/darasimiop/Room-Booking-System*

**1. What’s New (User-Facing)**

* **Feature 3: Room Booking:**  
  Students can now book a room by selecting check-in and check-out dates. The system prevents overlapping bookings and confirms availability.
* **Feature 4: Admin View of Bookings:**  
  Admins can view a complete list of all bookings, including student ID, room number, and booking dates.

**2. Work Summary (Developer-Facing)**

During Sprint 2, I focused on implementing the room booking process and the admin booking dashboard. The main challenge was ensuring that bookings don’t conflict — I solved this by checking date ranges against the database before saving new bookings. For the admin dashboard, I used a separate view to display all confirmed bookings from db.json.

All tasks were tracked on the Kanban board and transitioned through stages from “To Do” to “Done.”

**3. Unfinished Work**

* **Feature: Booking Cancellation**  
  Students should be able to cancel bookings. This feature will be implemented in Sprint 3.

**4. Completed Issues/User Stories**

| **ID** | **User Story Description** | **Status** | **Acceptance Criteria** |
| --- | --- | --- | --- |
| 3 | As a student, I want to book a room for specific dates so that I can reserve it. | Done | User can pick dates, submit request, and system confirms availability and saves it. |
| 4 | As an admin, I want to view all room bookings so that I can manage the dormitory. | Done | Admin can see full list of bookings on a separate page/view. |

**5. Incomplete Issues/User Stories**

| **ID** | **User Story Description** | **Status** | **Reason for Incompletion** |
| --- | --- | --- | --- |
| 9 | As a student, I want to cancel my booking if my plans change | Pending | UI and delete logic not implemented yet; to be addressed in Sprint 3. |

**6. Code Files for Review**

* room\_booking.html
* room\_booking.js
* admin\_view.html
* admin\_view.js

**7. Kanban Board Walkthrough**

📌 *Insert screenshots below for each stage of the Sprint.*

* **Start of Sprint** – The board at the beginning of Sprint 2 shows features pulled into "To Do" and one card moved to "In Progress" as work began. Features include booking rooms, submitting maintenance requests, and admin functionality.A screenshot of a computer

  AI-generated content may be incorrect.
* **Midway through Sprint** – Midway through Sprint 2, team members made progress on key user stories. Features like room booking and admin approval began moving through Code Review and Testing phases.*A screenshot of a computer

  AI-generated content may be incorrect.*
* **End of Sprint** – By the end of Sprint 2, most user stories had been completed and moved to the Done column. Tasks like room booking, registration, viewing rooms, and viewing room bookings were all implemented and demonstrated.*A screenshot of a computer

  AI-generated content may be incorrect.*

**8. Retrospective Summary**

**What Went Well:**

* Room booking form works with validation and logic.
* Admin dashboard successfully retrieves data from storage.

**What Needs Improvement:**

* Booking cancellation still needs to be added.
* UI for admin dashboard could use better layout/design.

**Action Items for Sprint 3:**

1. Add booking cancellation functionality for students.
2. Improve UI styling for admin and booking pages.
3. Start working on student booking history view.

**9. Updated Product Backlog**

| **ID** | **User Story Description** | **Priority** |
| --- | --- | --- |
| 1 | As a student, I want to register so that I can book a room. | High |
| 2 | As a student, I want to view available rooms. | High |
| 3 | As a student, I want to book a room for specific dates. | High |
| 4 | As an admin, I want to view all room bookings. | Medium |
| 5 | As a student, I want to submit a maintenance request. | Low |
| 6 | As a student, I want to view the status of my maintenance request so that I know when it will be fixed. | Low |
| 7 | As an admin, I want to assign rooms to students. | Medium |
| 8 | As a student, I want to receive booking reminders. | Medium |
| 9 | As a student, I want to cancel my booking if my plans change. | Medium |
| 10 | As an admin, I want to generate booking reports. | Low |
| 11 | As a student, I want to filter rooms based on type/facilities. | Medium |
| 12 | As an admin, I want to track room availability to prevent overbooking. | High |
| 13 | As a student, I want to view my booking history. | Low |
| 14 | As a student, I want to update my personal details. | Low |
| 15 | As an admin, I want to remove expired or canceled bookings. | Medium |

**Sprint Review – Completed Items**

* Student registration
* Viewing available rooms
* Booking a room (data stored in db.json)
* Admin viewing all bookings via a new table-based UI

**Sprint Review – Blockers**

* No major blockers.
* Slight delay finalizing the admin view UI.

**Sprint Retrospective – Action Items**

1. Plan booking approval logic for Sprint 3
2. Begin integrating login authentication per role
3. Assign each dev 1 feature with a firm deadline to prevent last-minute rush