

WP Project - Synopsis

Title: CampusSpaces - Your Smart Booking Solution

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Tech Stack: Django, Bootstrap, JQuery, SQLite

Problem Statement: In many colleges, booking classrooms (like AB5 and AB4 classrooms) and campus spaces (like MV Seminar Hall, Student Plaza) for events and meetings is often a time-consuming and inefficient process. The lack of a centralized system results in:

1. Limited Transparency: Students and staff struggle to find available rooms that meet their specific needs.
2. Frequent Conflicts: Double bookings and scheduling errors disrupt planned events. Multiple visits to get permissions can get cumbersome.
3. Wasted Resources: Rooms and equipment are underutilized due to poor visibility into availability.

CampusSpaces aims to address these challenges by providing an intuitive platform that simplifies room reservations, optimizes space utilization, and enhances the overall campus experience for students and staff.

Plan of Action: CampusSpaces includes the following core features to address the aforementioned issues in the problem statement:

- Room / Hall Search and Filters - search by date, time, location, capacity and equipment (projector, whiteboard etc).
- Booking system - ability to book, edit or cancel reservations with confirmation emails or notifications for successful bookings.
- Room Availability visual table/ calendar - shows quick availability of rooms
- Inventory and allotment of equipment such as projectors.
- User authentication - login for students and admin with roles and permissions
- Room details - Photos, capacity, equipment, special features for each room
- Admin Panel - manage rooms, user accounts and resolve booking conflicts
- Waitlist system - adds users to a waitlist for a fully booked room
- Analytics and Insights - usage reports of rooms and trend analysis of frequently booked rooms and demand analysis