

Software Requirement Specification for Hostel Vacancy Management System

Name	BHARANI DHARAUN A
Roll no	7376222IT120
Seat no	296
Project ID	16
Problem Statement	HOSTEL VACANCY MANAGEMENT SYSTEM

1.Introduction

1.1. Purpose:

The purpose of this document is to present a detailed description of the Hostel Vacancy Management System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2. Scope of Project:

- **Room Booking Portal:** Develop a user-friendly portal for students to book either two-cot or four-cot rooms within the hostel premises. Additionally, outsiders should also be able to utilize the portal to book rooms for their stay.
- **Room Availability and Confirmation:** Implement a real-time system to display the availability of two-cot and four-cot

rooms. Upon selection, students and outsiders should receive immediate confirmation of their room bookings through the portal.

2.System Overview:

2.1. Users:

Students:

Students have the capability to browse available rooms, submit room booking applications, upload necessary documents, track the status of their applications, schedule check-in appointments upon approval, and review their booking history.

Admins:

Administrators oversee the room booking process. They review and process submitted room booking applications, manage room availability, approve or reject applications with remarks, schedule check-in appointments, and access analytical dashboards for occupancy oversight.

2.2. Features:

Login and Registration:

Users, including students and administrators, can register for an account or log in with existing credentials to access the portal.

Room Booking Submission:

Students can submit room booking applications by providing relevant details such as preferred room type (two-cot or four-cot), desired dates of stay, and any additional requirements. Upon submission, applications are sent to the admin interface for review and processing.

Application Status:

Students can track the status of their room booking applications and view the history logs of their booking activities.

Check-In Appointment Booking:

Students with approved room booking applications can schedule their check-in appointments after a specified waiting period, ensuring smooth occupancy management.

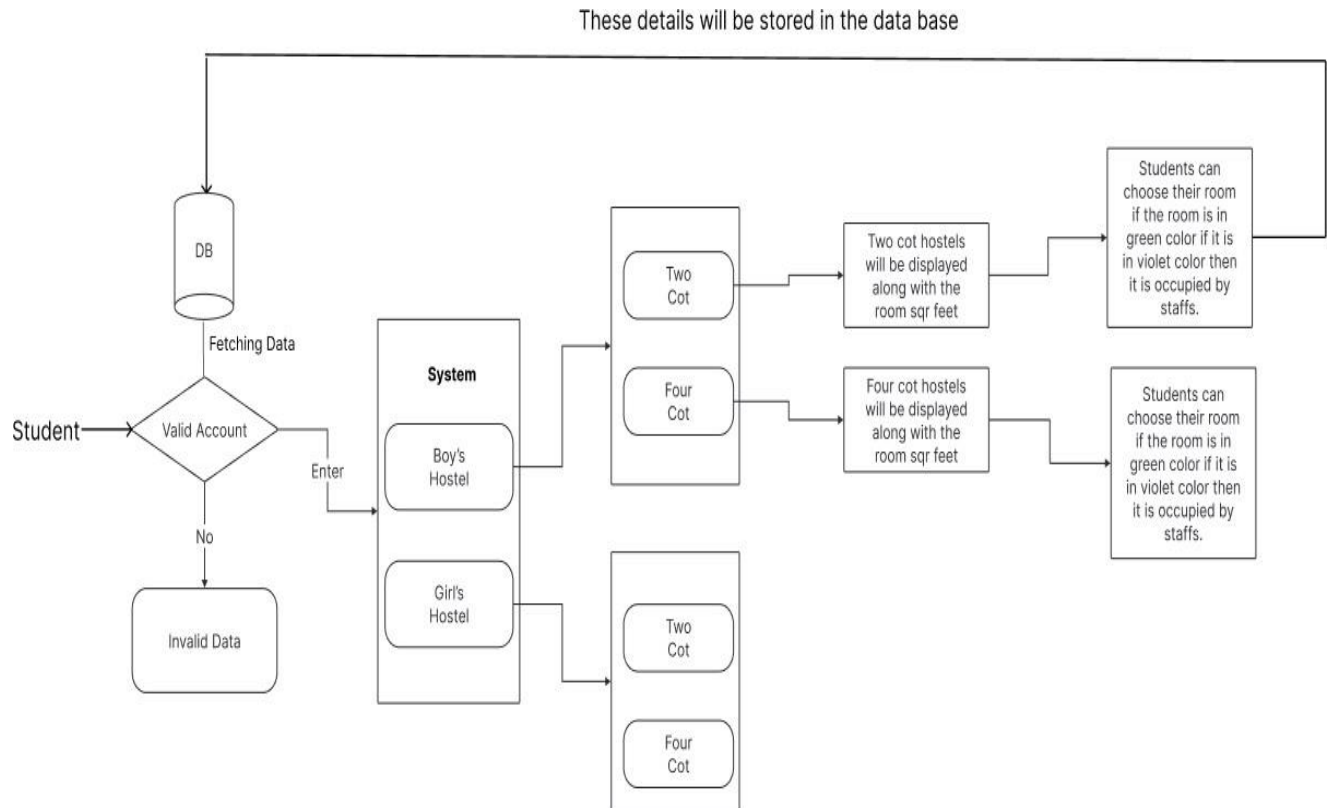
Admin Access:

Administrators have access to all submitted room booking applications categorized by room type. They can review application details, approve or reject applications with appropriate remarks, and manage room availability. Additionally, they can schedule check-in appointments based on approved applications.

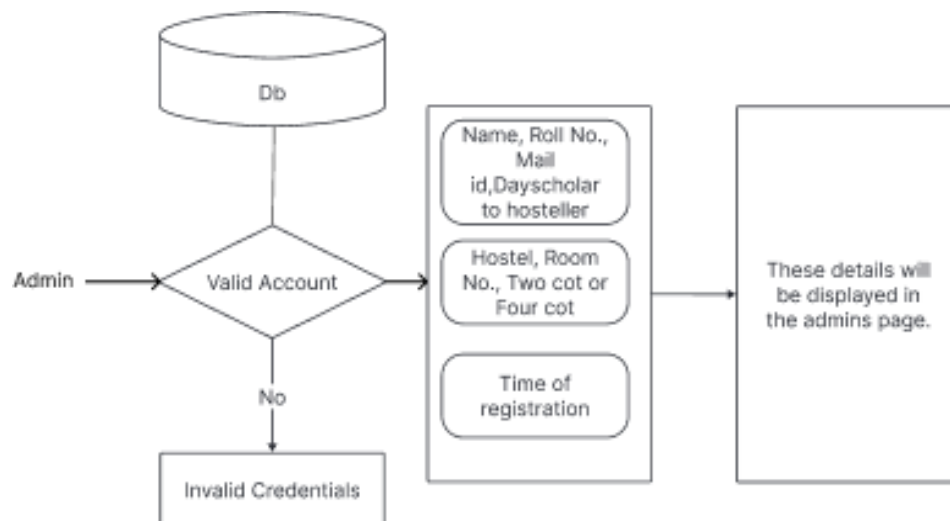
Admin's Analytical Dashboard:

Administrators can monitor the occupancy status of the hostel, including the number of room booking applications received, approved, and rejected. They can also track appointment requests and view the latest activity logs of room booking applications for effective hostel management.

Student dashboard

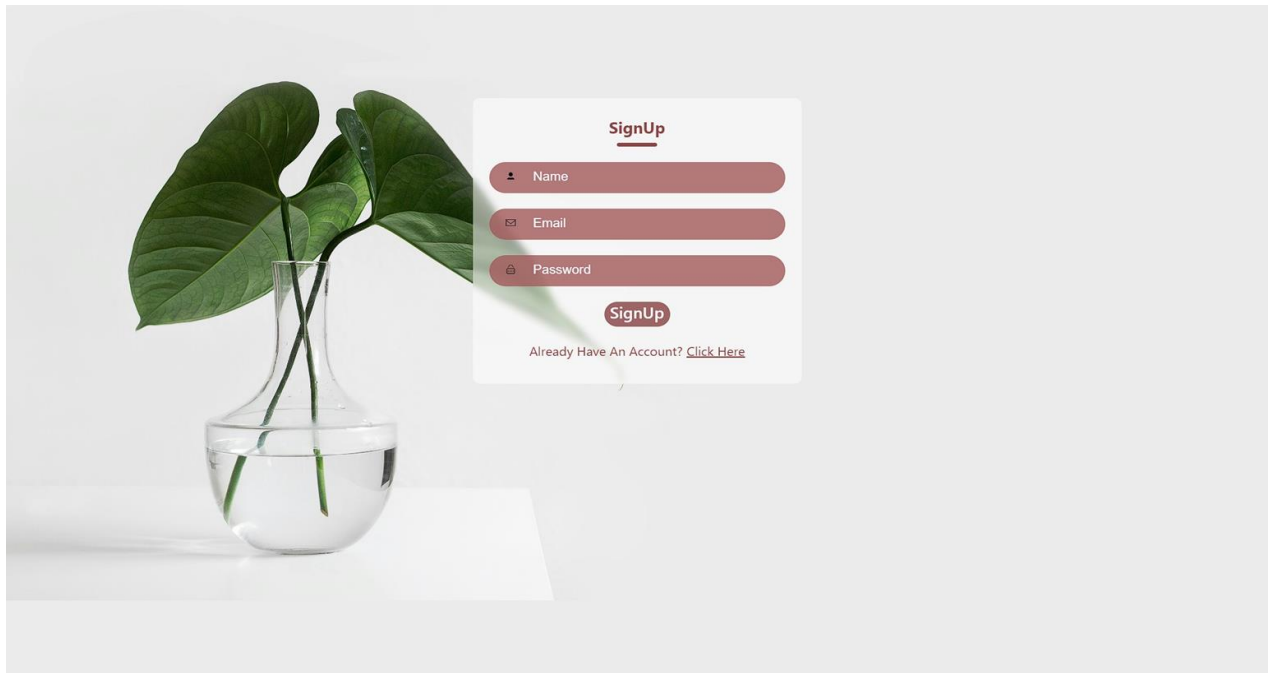


Admin dashboard

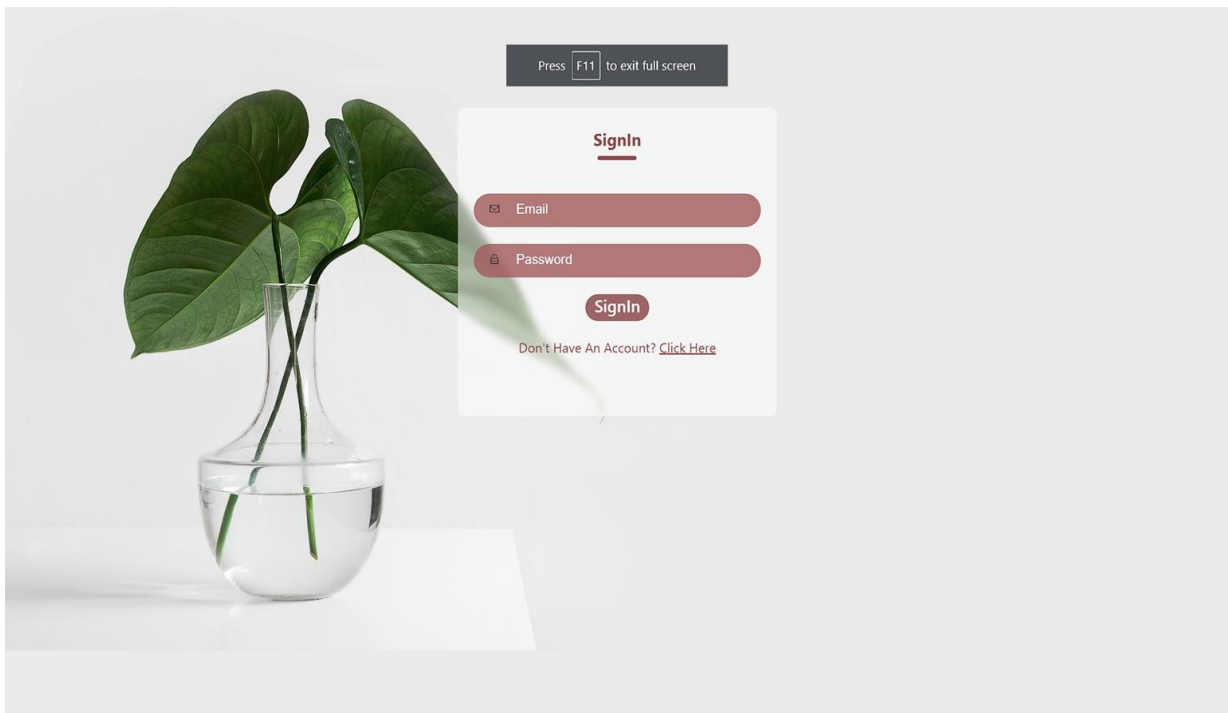


Prototype:

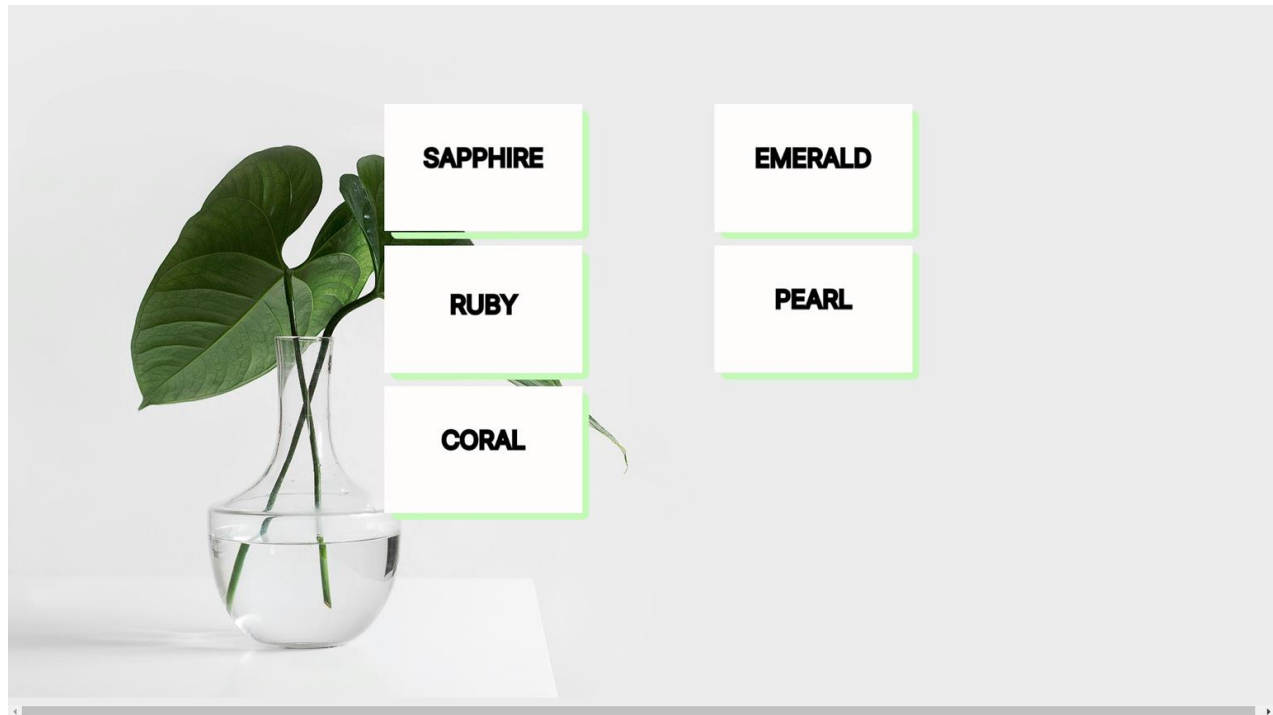
Signup Page:



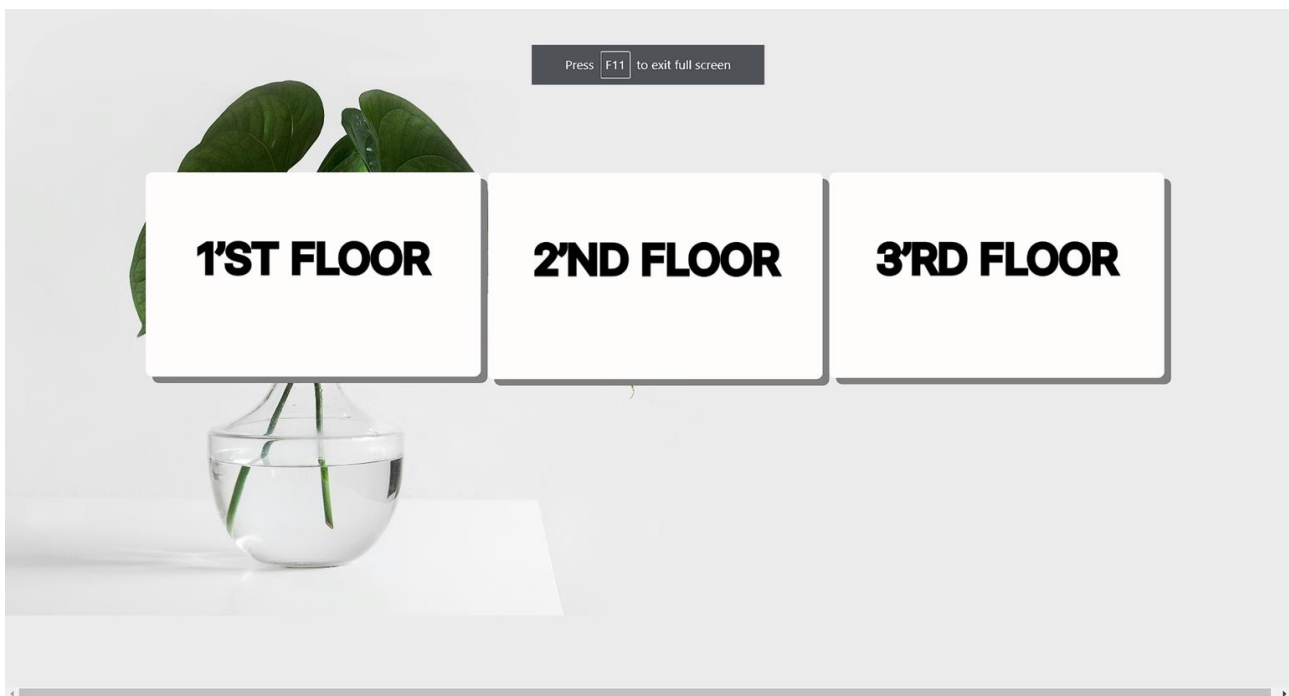
Login Page:



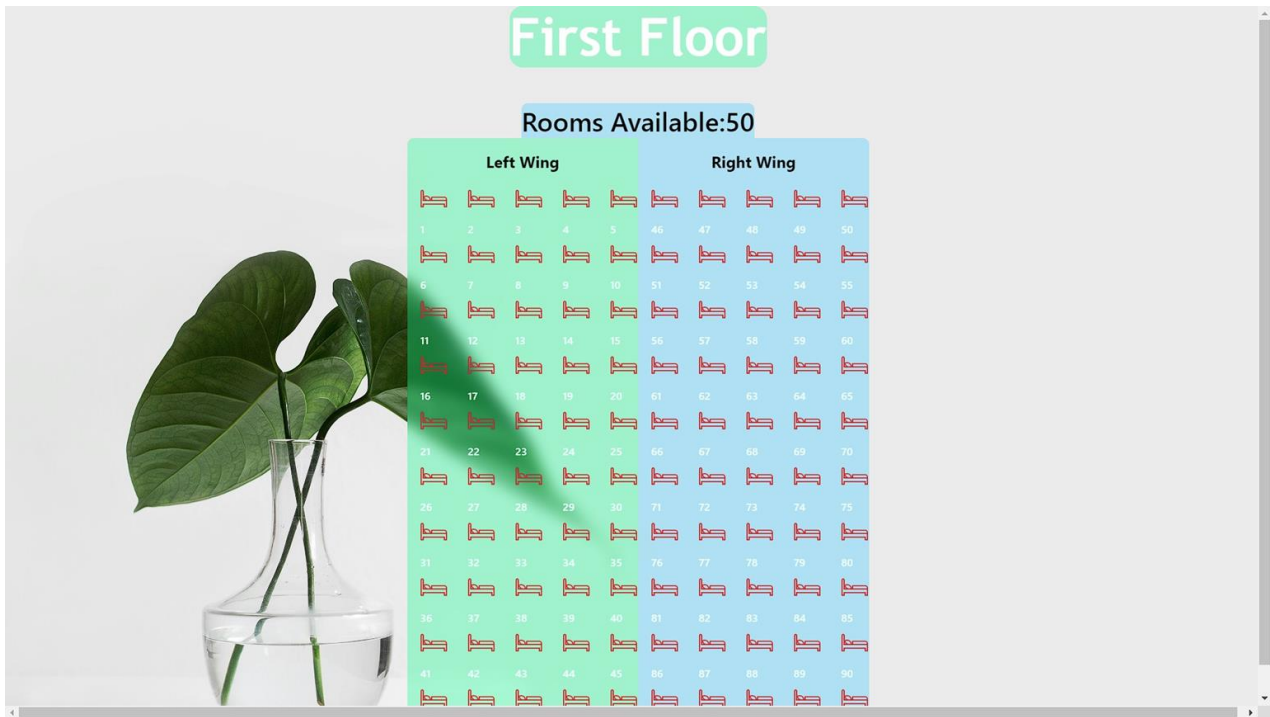
Displaying Available Hostels:



Displaying Available Floors:



Displaying Available Rooms:



Stack:

Frontend	React,Css,Bootstrap
Backend	Express,NodeJs
Database	MongoDB