

**SOFTWARE REQUIREMENT SPECIFICATION FOR THE PROJECT TITLE :VENUE
BOOKING USING PYTHON STACK
PREPARED BY**

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|--------------------------|---------------------------|
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| PROJECT ID | 12 |
| PROBLEM STATEMENT | VENUE BOOKING |

PROBLEM STATEMENT

In recent years, our college has hosted numerous competitions, seminars, and T&P (Training and Placement) sessions. With many classrooms and halls available, it becomes challenging for the admin to manage venue booking requests made by staff. Therefore, an online venue booking system would be immensely beneficial.

PURPOSE OF THE PROJECT

This online venue booking system aims to modernize college space management for classrooms and auditoriums. By offering a central platform for reservations, it streamlines booking processes for faculty. This web-based system will improve efficiency, eliminate confusion over availability, and empower users to manage their schedules with ease. Ultimately, this project will benefit the entire college community by creating a transparent and convenient space reservation system.

SCOPE OF THE PROJECT

The main aim of this project is to develop an online venue booking system for your college's classrooms and auditoriums. It will focus on functionalities like user login, venue search with filters (capacity, A/V equipment), real-time availability display, online booking with confirmation, and potentially cancellation options. The system will prioritize user-friendliness for faculty.

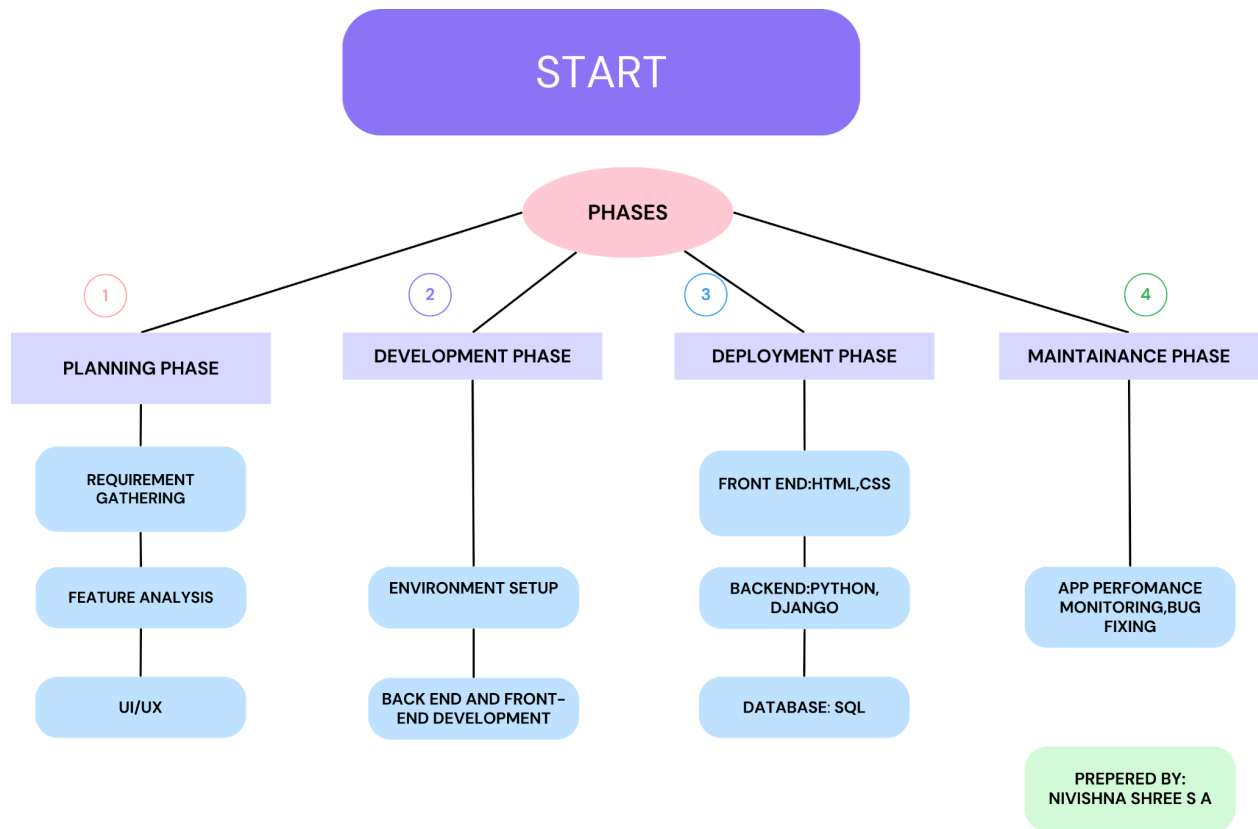
IDEA OF THE PROJECT:

- **User-Friendly Booking Interface:** Develop an intuitive, role-based booking platform that provides personalized experiences for different users, such as faculty members and administrators, with tailored features and streamlined navigation based on their specific roles.
- **Real-Time Availability and Updates:** Implement a system that integrates with the college's database to provide real-time updates on venue availability, reflecting any changes instantly to avoid double bookings and ensure accurate information.
- **Advanced Venue Search and Filters:** Create a robust search functionality that allows users to find available venues quickly, with advanced filtering options such as seating capacity, equipment availability, and location within the campus.
- **Automated Booking and Approval Workflow:** Develop an automated booking system that enables faculty members to submit requests, and administrators to approve or reject them with real-time notifications, reducing manual intervention and improving efficiency.
- **Integration with College Calendar:** Synchronize the booking system with the college's academic and events calendar to prevent scheduling conflicts and ensure that all venue bookings align with the institution's overall schedule.

TECHNOLOGY STACK

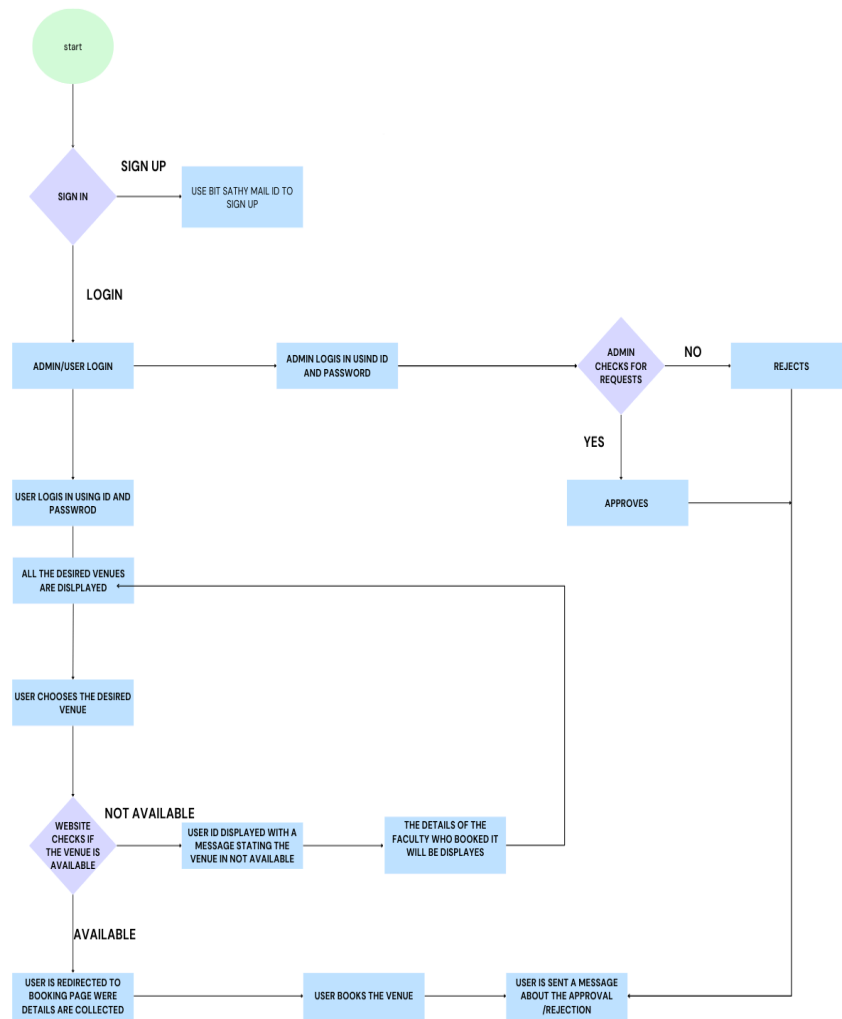
| S.NO | PROJECT-FEATURES | TECHNOLOGY STACK |
|------|---------------------|-------------------------------------|
| 1. | DATABASE MANAGEMENT | PostgreSQL MySQL |
| 2. | BACK-END | Python Django(Python Web) |
| 3. | FRONT-END | HTML,CSS,JS |
| 4. | API | OpenAPI SOAP APIs RESTFul API |

PROJECT WORKFLOW (FLOW CHART)



Venue booking

Architecture:



Venue booking