

VENUE MANAGEMENT - 12

Name	DEEPIKA A
Roll No	7376221EE106
Project ID	12
Project	Venue Management

COMPONENTS:

Front End	React (JS Library for building user interfaces)
Back End	Node.js with Express.js
Database	MongoDB(NOSQL Database)
API	OpenAPI

PROJECT FLOW:

1.1. Purpose:

The purpose of this document is to present a detailed description of the Venue Management . To book venues. 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:

- This software system will serve as a portal for venue booking, enabling faculty to book their venues and receive approval. From an admin perspective, this system will provide a comprehensive analytical portal for booking the venue.
- Administrators have the ability to approve or reject the venues. Once the venue is approved, faculty can schedule as per their requirement by using their accepted venues. If the venue is rejected, faculty can book another venue.

2. System Overview:

2.1. Users:

1. Faculty:

They have the ability to book the venue and fill out the form with the required details, once the venue booking form is filled, the faculty will submit it for approval. And also they have the ability to see the booked venues and can see who booked the venues. Finally from the booked venues faculty can schedule as per their requirement.

2. Admins:

The admin will review the booked venues. If the details are correct and there are no mistakes, the admin will approve the venues and send remarks to the faculty. If there are any issues with the venues, the admin will decline the venue and send remarks to the faculty.

2.2. Features:

1.Login and registration:

Faculty can register for an account or login with their existing account.

2.Venues Type:

It will show the list of venues, in that there will be sub-venues. In the sub-venues it will show that the venue is booked or vacant. If the venue is not booked the faculty can book the venue and submit the venue booking form for approval.

3. Venues approval report:

It will show the booked venues and it will show the admin will approve or reject the booked venues with remarks or initiated.

4. Admin Access:

Admin can view all submitted booked venues in a category admin can approve or reject the booked venues with suitable remarks.

5.Admin's analytical dashboard:

Admin can view the number of booked venues that will be initiated, approved, and rejected.

3.1 Functional Requirements:

User Management:

Faculty can register and login.Admins have access control with dedicated features.

Venue Booking Form:

- Faculty can submit the venues with appropriate details.
- Approval form contains:
 - Faculty name &ID
 - Venue

- Purpose (to book the venue)
- From date
- To date
- Start time
- To time

Approval Status:

- Faculty can view the current status of their booking form.
- If the venue is initiated, approved or rejected then the remarks are shown.

Admin Dashboard:

- Admins can view a list of all submitted booked venues.
- Admins can view details of each submitted booked venues form.
- Admin can approve or reject the venues with suitable remarks

3.2. Non-Functional Requirements:**Performance:**

- The venue management system must respond to user actions within 2 seconds to ensure efficient usability.
- The system must handle a concurrent user load of at least 100 users without significant performance degradation.

Security:

- User data must be encrypted during transmission and storage.
- Access to sensitive functionalities should be restricted to authorized admin users through secure authentication mechanisms.

Usability:

- The user interface should be intuitive and user-friendly.
- Clear and concise error messages should be provided to guide users in case of input errors or system failures.

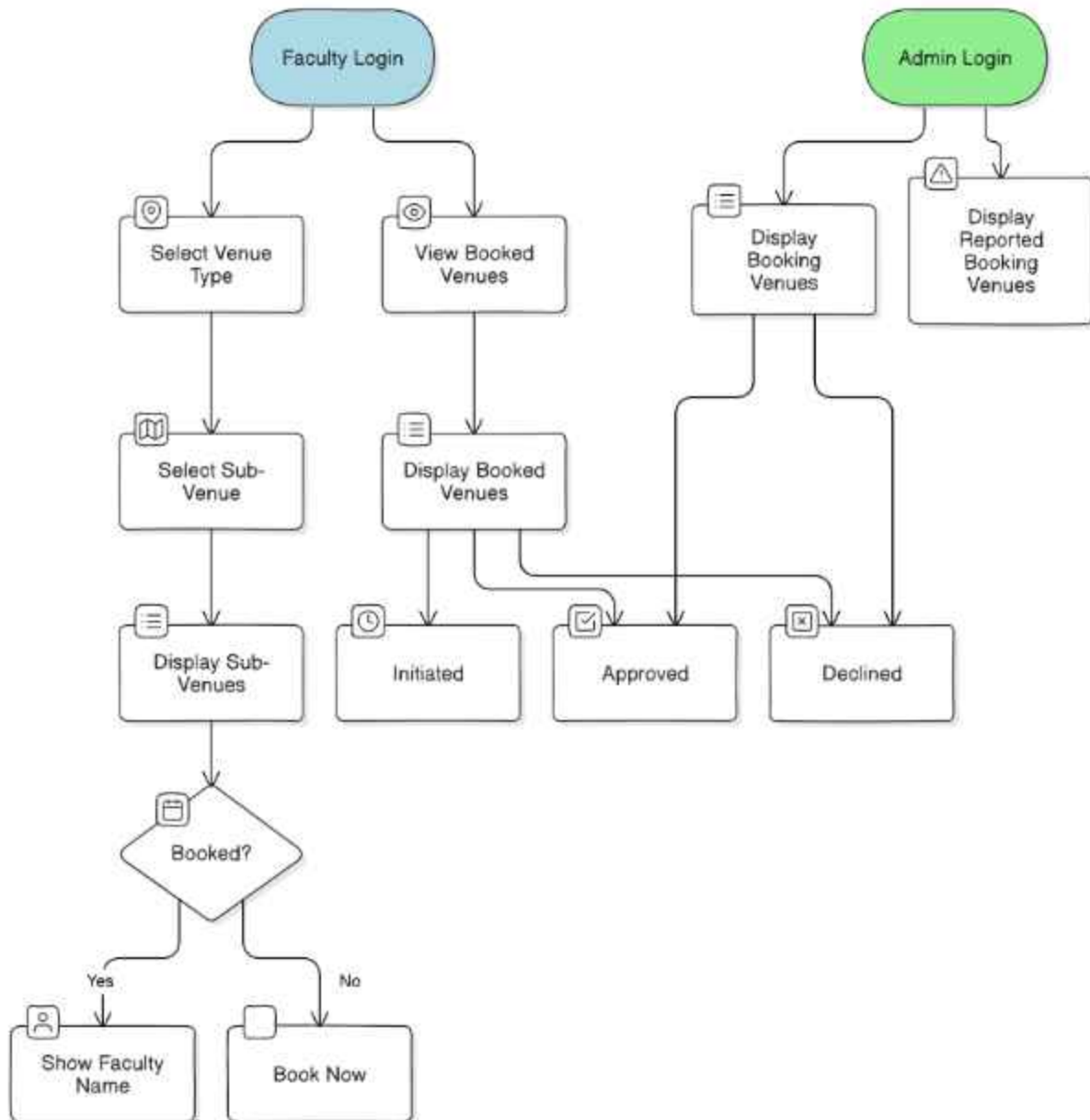
Reliability:

- The system should be available 24/7 with minimal downtime.
- A backup and recovery mechanism should be in place to prevent data loss in case of system failures or crashes.

Scalability:

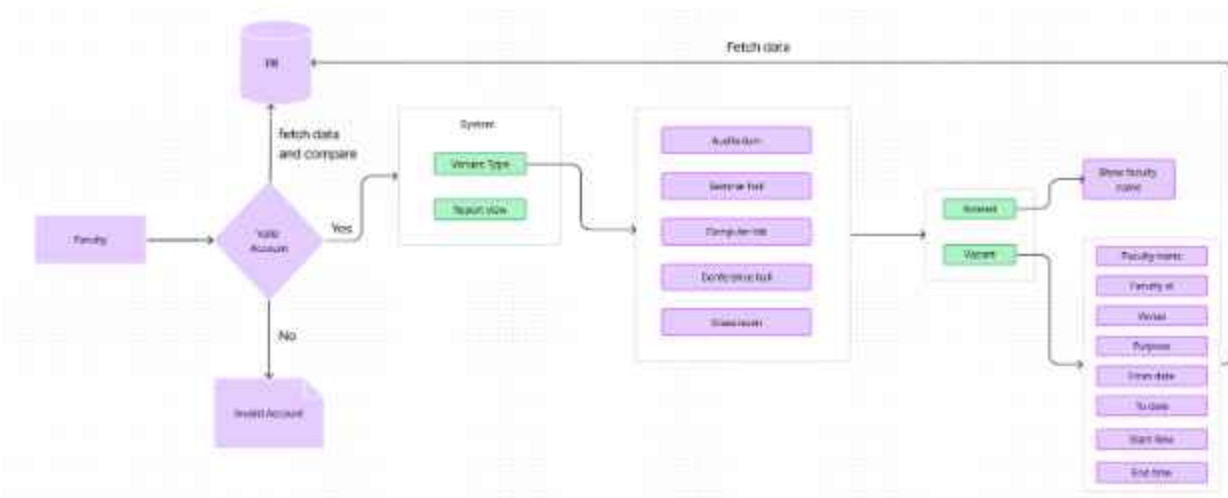
- The system should be designed to accommodate an increasing number of users and data volume over time.
- The system should be scalable to support additional features and functionalities as per future requirements.

FLOW CHART:

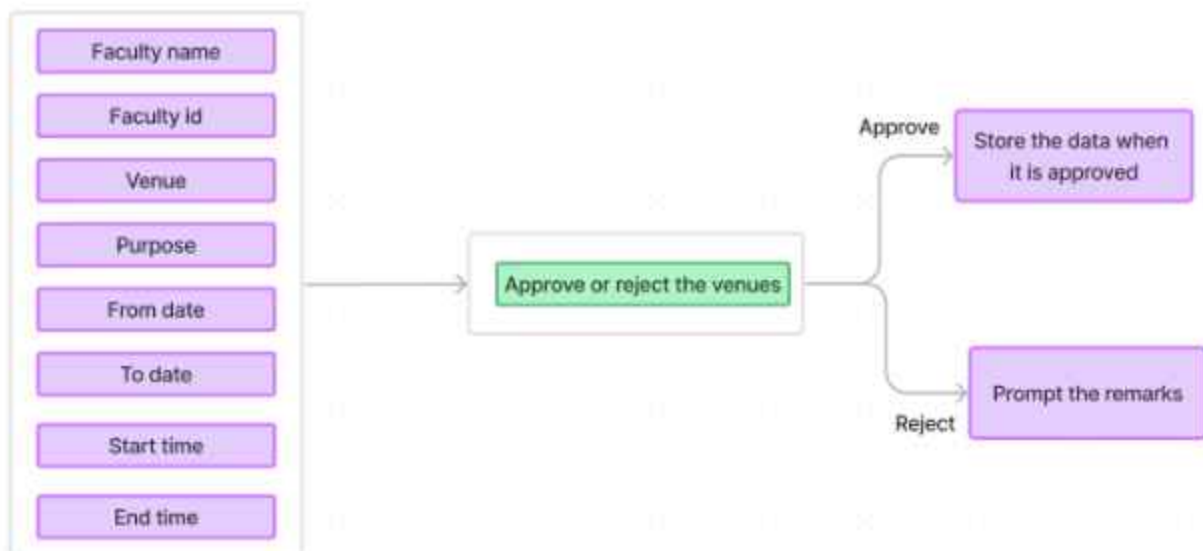


FLOW DIAGRAM:

USER INTERFACE:

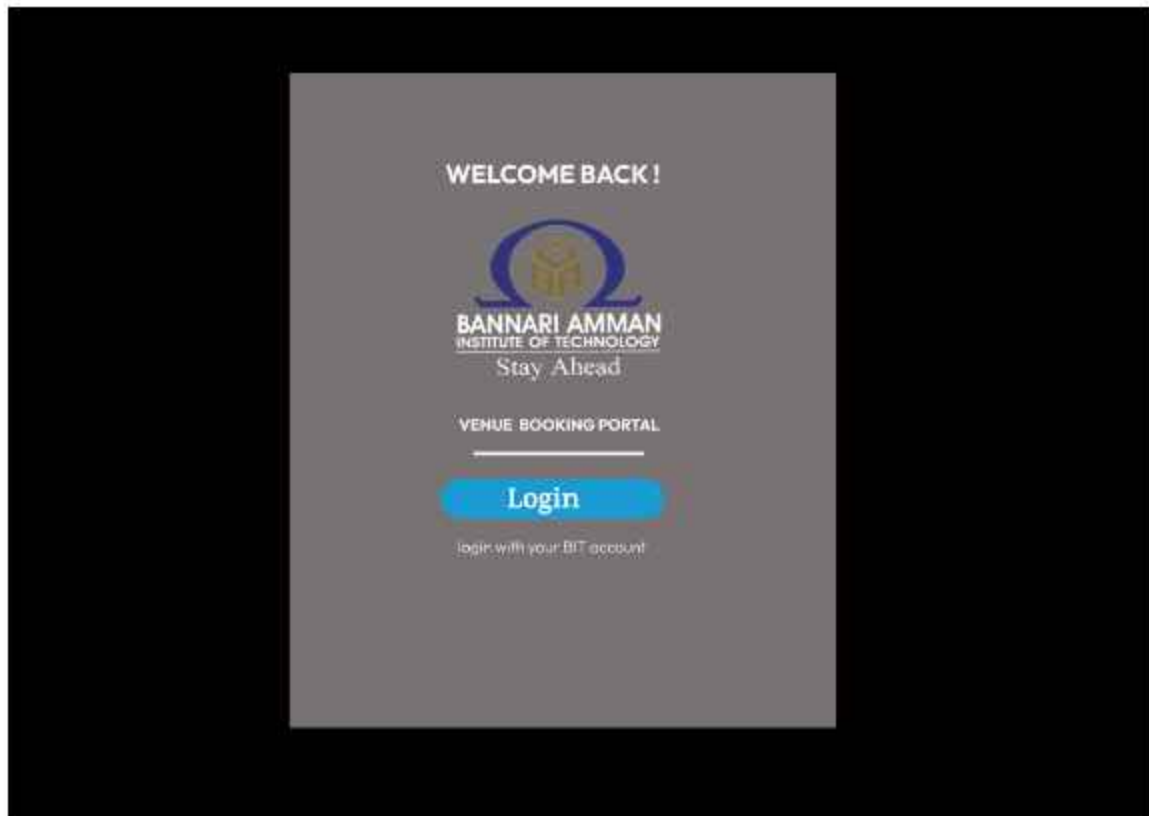


ADMIN INTERFACE:

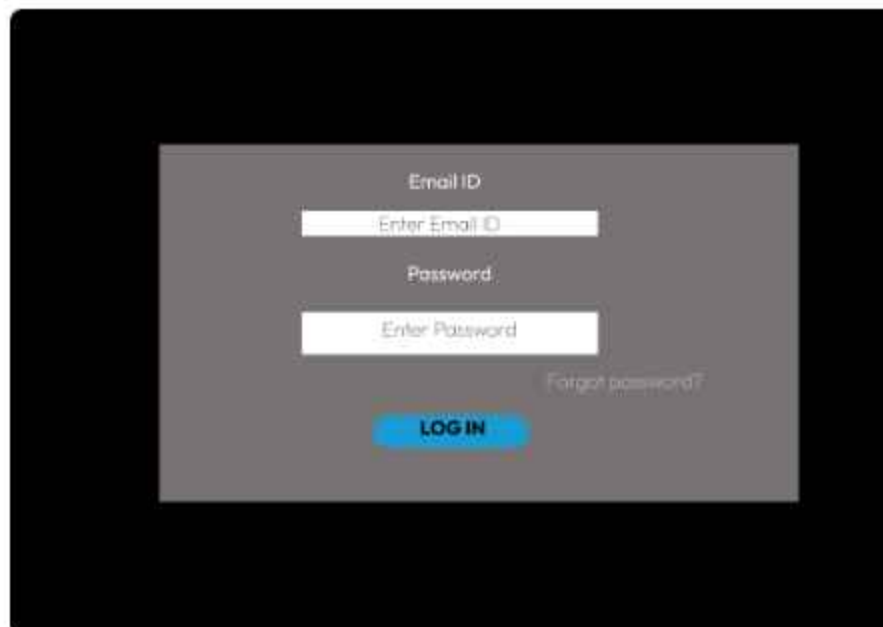


PROTOTYPE:

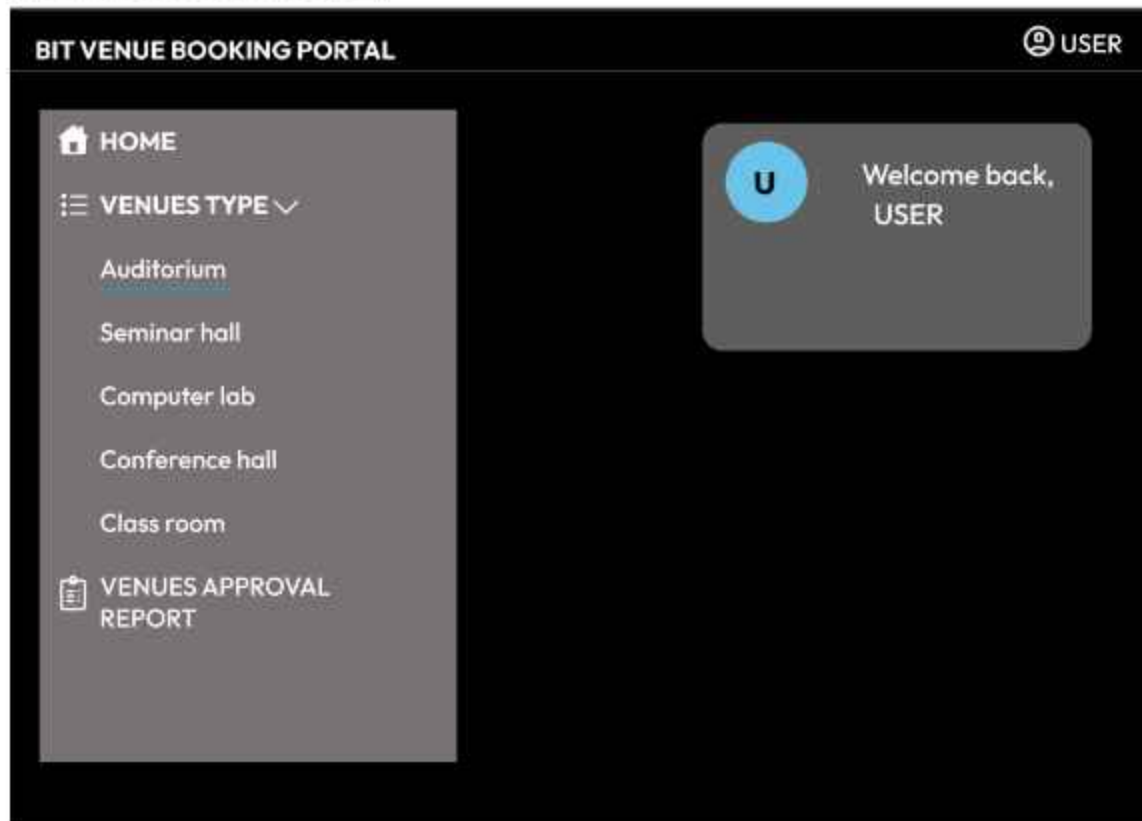
1.VENUE BOOKING PORTAL PAGE:



2.LOGIN PAGE:



3. USER HOME PAGE:



4. LIST OF VENUES IN THAT THERE WILL BE SUB-VENUES PAGES:

The screenshot shows the 'BIT VENUE BOOKING PORTAL' header with a 'USER' profile icon. Below the header, there is a search bar labeled 'AUDITORIUM'. A table lists the venues with columns for NO., CURRENT NAME, CAPACITY, PURPOSE, and STATUS. The first row shows 'MAIN AUDITORIUM' with a capacity of '1000 to 1800' and a status of 'BOOKED'. The second row shows 'VEDHANAYASAM AUDITORIUM' with a capacity of '800' and a status of 'NOT BOOKED'. A red box highlights the 'STATUS' column header, and a red arrow points to the 'BOOKED' status in the first row.

NO.	CURRENT NAME	CAPACITY	PURPOSE	STATUS
1	MAIN AUDITORIUM	1000 to 1800	PLACEMENT	BOOKED
2	VEDHANAYASAM AUDITORIUM	800		NOT BOOKED

COMPUTER LAB

NO	BLOCK NAME	CURRENT NAME	CAPACITY	STATUS	PURPOSE
1	AIDS	AIDS LAB 1	30	NOT BOOKED	
2	AIDS	AIDS LAB 2	60	NOT BOOKED	
3	AIDS	AIDS LAB 3	60	BOOKED	Task:1234,Academic lab
4	BME	BME COMPUTER CENTER	30	NOT BOOKED	
5	CIVIL	CIVIL COMPUTER AIDED DESIGN LABORATORY	34	NOT BOOKED	
6	CSBS	CSBS NETWORK LABORATORY	64	NOT BOOKED	
7	CSE	CSE LAB 1	72	NOT BOOKED	
8	CSE	CSE LAB 2	60	NOT BOOKED	
9	CT	CT LAB	90	BOOKED	Task:abcd,Academic lab
10	ECE	NETWORK LABORATORY	53	NOT BOOKED	
11	ECE	VLSI DESIGN LABORATORY	40	NOT BOOKED	

5.VENUE BOOKING PAGE:

BIT VENUE BOOKING PORTAL

USER

VENUE BOOKING PAGE

Faculty ID

Enter faculty ID

Faculty Name

Enter faculty name

Venue

Enter the venue name

Purpose

Enter the purpose

From date

dd-mm-yyyy

To date

dd-mm-yyyy

Start time

Enter start time

To time

Enter end time

Cancel

Book the venue

6.VENUE BOOKING REPORT PAGE:

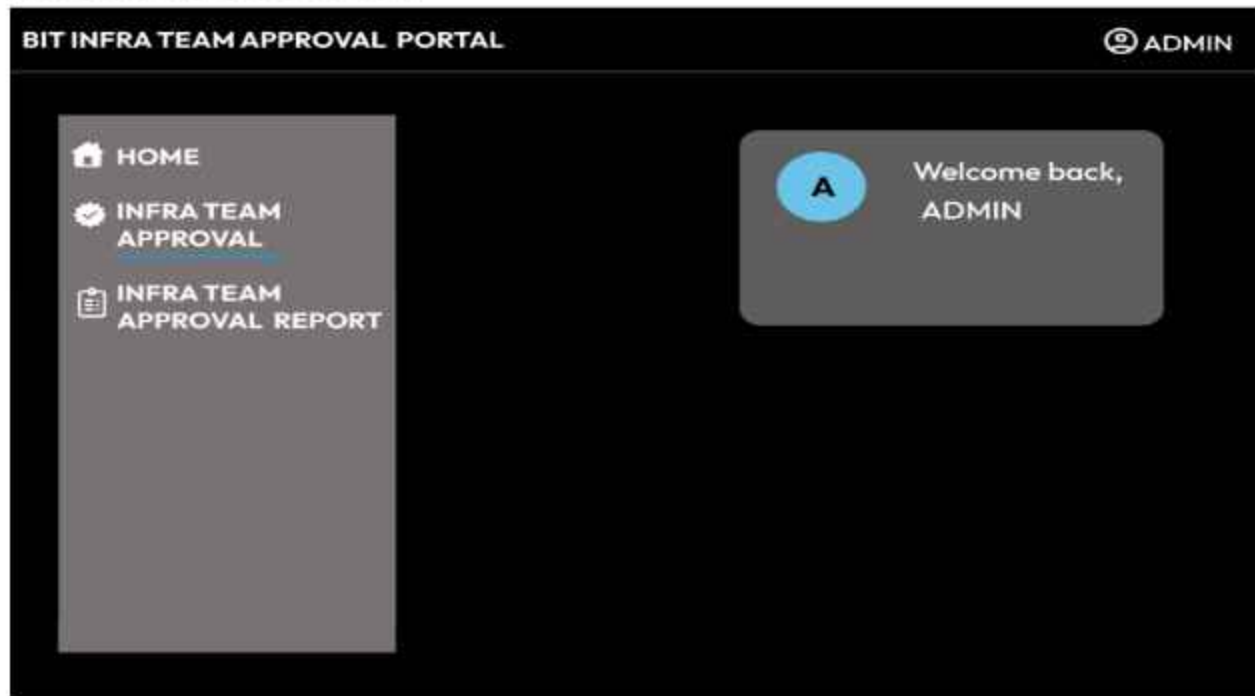
BIT VENUE BOOKING PORTAL

USER

VENUE BOOKING REPORT

FACULTY ID	FACULTY NAME	VENUE	PURPOSE	FROM DATE	TO DATE	START TIME	TO TIME	IQAC VERIFICATION	REMARKS
EET1234	NIVETHA	AIDS LAB 1	LAB CYCLE TEST	03-06-2024	03-06-2024	9.00 AM	10.30 AM	APPROVED	SUCCESSFULLY BOOKED
CSE5678	RAKSHAYA	MAIN ADITORIUM	DANCE CONCERT	04-06-2024	04-06-2024	3.00 PM	4.30 PM	DECLINED	IT WILL GIVEN TO PLACEMENT SO BOOK ANOTHER VENUE
AIDS2478	SRI HARINI	AIDS LAB 2	SEMINAR	05-06-2024	05-06-2024	10.00 AM	3.00 PM	INITIATED	

7.ADMIN HOME PAGE:



8.ADMIN APPROVAL PAGE:

The screenshot shows the Admin Approval Page of the BIT Infra Team Approval Portal. The header and sidebar are identical to the previous page. The main content area contains a form for approving an infrastructure team request. The form fields are as follows:

Field	Value
Faculty ID	1234
Faculty Name	ABC
Venue	AIDS LAB 1
Purpose	LAB CYCLE TEST
From date	03-06-2024
To date	03-06-2024
Start time	9.00 AM
To time	10.30 AM

At the bottom right of the form, there are three buttons: 'APPROVE' (green), 'DECLINE' (red), and 'REMARKS' (blue). The 'REMARKS' button is currently selected, and it displays the text 'SUCCESSFULLY BOOKED'.

9.ADMIN APPROVAL REPORT:

BIT VENUE BOOKING PORTAL									ADMIN
INFRA TEAM APPROVAL REPORT									
FACULTY ID	FACULTY NAME	VENUE	PURPOSE	FROM DATE	TO DATE	START TIME	TO TIME	IQAC VERIFICATION	REMARKS
EEE1234	NIIVETHA	AIDS LAB 1	LAB CYCLE TEST	03/06/2024	03/06/2024	9.00 AM	10.30 AM	APPROVED	SUCCESSFULLY BOOKED
CSE5678	RAKSHAYA	MAIN AUDITORIUM	DANCE CONCERT	04/06/2024	04/06/2024	3.00 PM	4.30 PM	DECLINED	IT WILL GIVEN TO PLACEMENT SO BOOK ANOTHER VENUE