

Rooms and halls Booking site of College (Prototype)

Description of the project:

To automate the process of class room and hall booking for conducting exams I have developed a web application. It helps to maintain the records of booking and helps to find the status of the rooms which are booked under each building easily. To avoid manual sorting and finding of user's data , it also helps the users to book the exam hall in our college easily. It is a prototype application it needs to be changed as per real implementation.

Technologies used:

- MEAN stack was used to develop this application
- Frontend: Angular Js (Angular Material)
- Backend: Node JS - Express
- Database: Mongoddb

Functionalities:

→ Admin

- Admin can add new category under the added category, the admin can add unique new rooms.

- Admin can also book rooms on particular date and the time slot based on the availability.
- In the available room list, the already booked rooms won't get displayed, if user enters invalid time or if any time clash occurs ,it won't show any results.
- Admin can obtain the user status which contain the list of user booking and the admin have option to reject the booking of user.

To add new Buildings :

The screenshot shows a web browser window with the address bar displaying 'localhost:4200/admin/newadding'. The application has a dark blue sidebar with a 'Company Logo' and a navigation menu containing: 'Book Rooms', 'Create Rooms', 'Users Status', and 'Booked History'. The main content area is titled 'Dashboard' and features a modal window titled 'Add New Category'. This modal has two tabs, 'First' and 'Second', with 'First' selected. Inside the modal, there are two text input fields: 'Category Name *' with a character count 'Max 20 characters 0/20', and 'Description *'. A 'Create' button is located at the bottom of the modal.

To add new rooms for the respective Buildings :

Company Logo

Navigation

- Book Rooms
- Create Rooms
- Users Status
- Booked History

admin

Dashboard

First Second

Add New Rooms For Available category

Category *
Room name *
Description
Create Room

To book rooms on the particular time slot :

Company Logo

Navigation

- Book Rooms
- Create Rooms
- Users Status
- Booked History

admin

Book Rooms

Select Category
Red Building

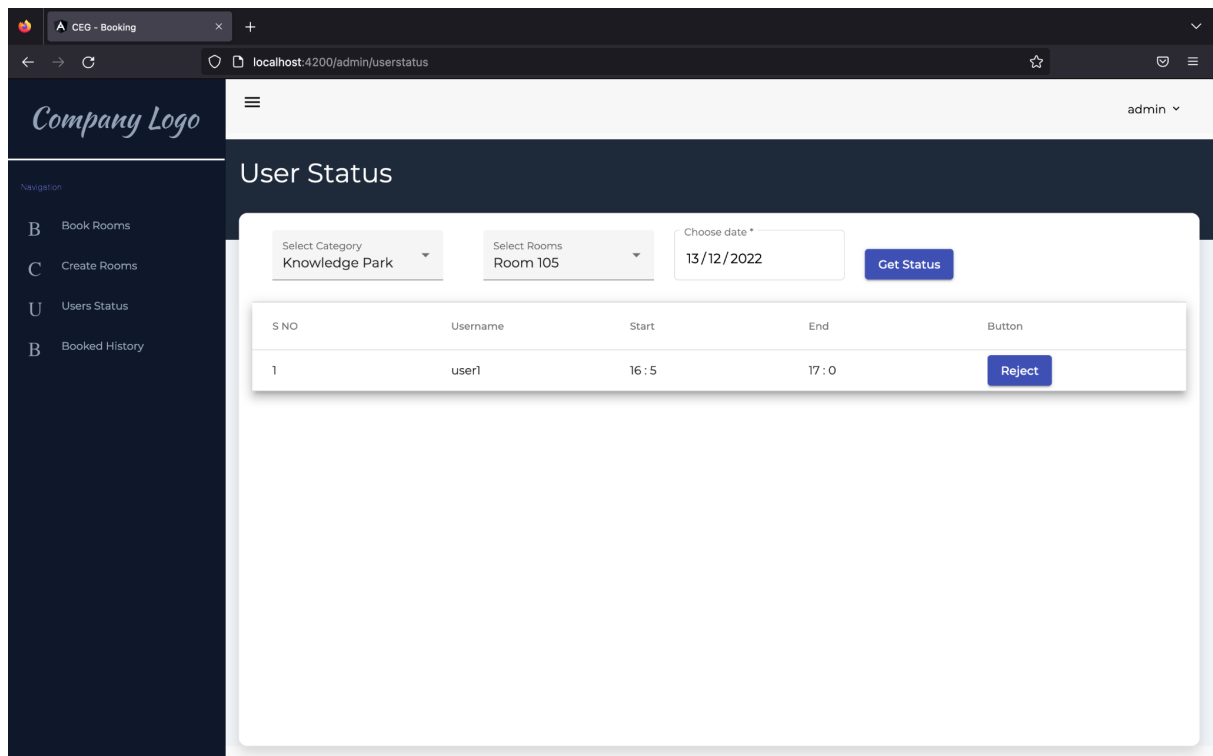
Choose date *
29/12/2022

Start time
09:00

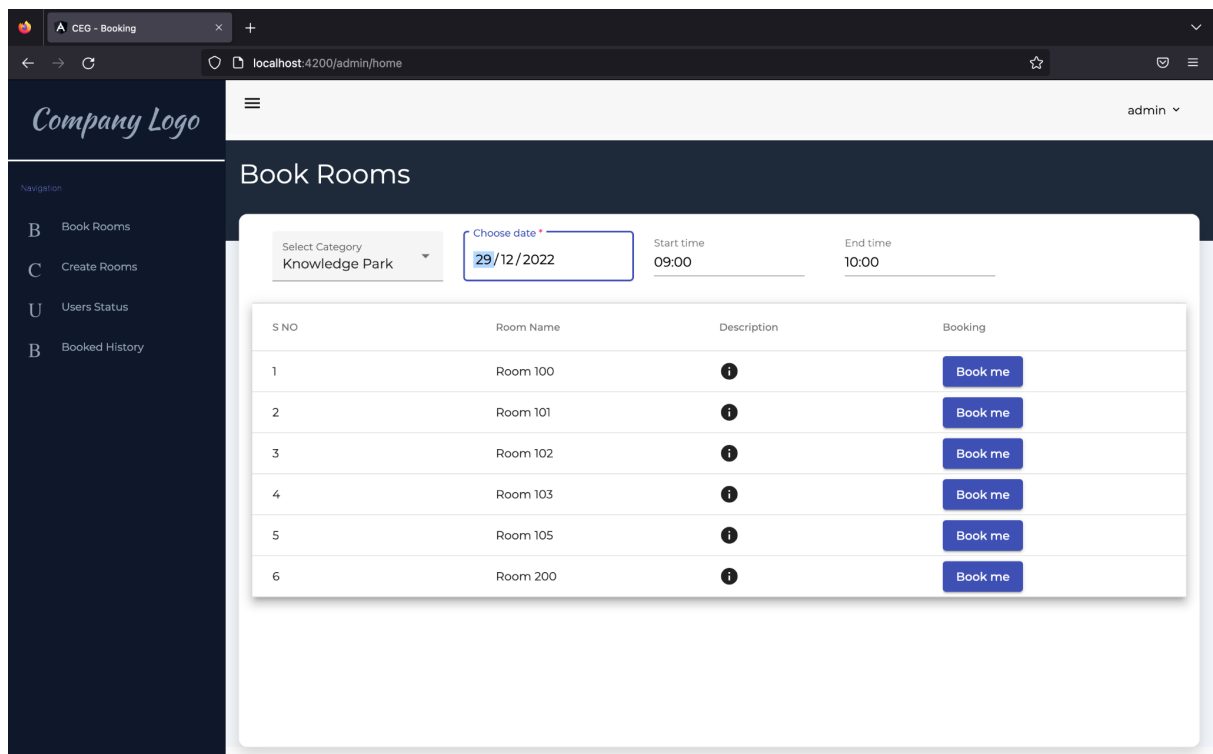
End time
10:00

S NO	Room Name	Description	Booking
1	Room 1	i	Book me
2	Room 2	i	Book me
3	Room 4	i	Book me

To get the status of a room on particular day :



Admin can also book rooms:



To see the booking history for admin :

The screenshot shows a web application interface for 'CEG - Booking'. The sidebar on the left contains navigation links: 'Book Rooms', 'Create Rooms', 'Users Status', and 'Booked History'. The main content area displays a table titled 'Booking History By Admin' with the following data:

S NO	Category	Room	Date	Start	End	Status
1	Knowledge Park	Room 100	13/12/2022	9 : 0	10 : 0	Booked
2	Red Building	Room 3	29/12/2022	9 : 0	10 : 0	Booked
3	Red Building	Room 1	21/12/2022	14 : 0	20 : 18	Booked
4	Red Building	Room 1	14/12/2022	17 : 0	18 : 0	Booked
5	Knowledge Park	Room 100	29/12/2022	15 : 0	16 : 0	Booked

→ Users :

- User can book the available rooms and also if the admin rejects the user booking it will get displayed under the rejection history.
- In addition to this both admin and users can able to see their own booking history.
- User can able to cancel the booked rooms and there is option to see the cancelled history.

To book rooms for users :

The screenshot shows the 'Home' page of a web application. The sidebar on the left contains navigation links: 'Book Rooms', 'Booked History', 'Rejected History', and 'Cancelled history'. The main content area has a header with 'Company Logo' and a user profile 'user1'. Below the header, there is a search filter with 'Select Category' (Knowledge Park), 'Schedule start date *' (29/12/2022), 'Start time' (10:00), and 'End time' (11:00). A table lists available rooms with columns: S NO, Room Name, Description, and Booking. Each row has a 'Book me' button.

S NO	Room Name	Description	Booking
1	Room 100		<button>Book me</button>
2	Room 101		<button>Book me</button>
3	Room 102		<button>Book me</button>
4	Room 103		<button>Book me</button>
5	Room 105		<button>Book me</button>
6	Room 200		<button>Book me</button>

To see the booking history:

The screenshot shows the 'History' page of the web application. The sidebar on the left contains navigation links: 'Book Rooms', 'Booked History', 'Rejected History', and 'Cancelled history'. The main content area has a header with 'Company Logo' and a user profile 'user1'. Below the header, there is a 'Booking History' section with a table listing booked rooms. The table has columns: S NO, Category, Room, Date, Start, End, and Status.

S NO	Category	Room	Date	Start	End	Status
1	Red Building	Room 1	13/12/2022	6 : 30	7 : 0	Booked
2	Red Building	Room 3	13/12/2022	7 : 5	7 : 13	Booked
3	Knowledge Park	Room 100	13/12/2022	11 : 0	12 : 0	Booked
4	Knowledge Park	Room 105	13/12/2022	16 : 5	17 : 0	Booked
5	Knowledge Park	Room 101	28/12/2022	16 : 5	17 : 0	Booked

To get the rejection history:

CEG - Booking

finalreport - Google Docs

localhost:4200/user/rejecthistory

user1

Company Logo

Navigation

- Book Rooms
- Booked History
- Rejected History
- Cancelled history

History

Rejection History

S NO	Category	Room	Date	Start	End
1	Red Building	Room 1	13/12/2022	7 : 5	7 : 13
2	Red Building	Room 1	13/12/2022	19 : 0	20 : 0

To get the cancellation history:

CEG - Booking

finalreport - Google Docs

localhost:4200/user/rejecthistory

user1

Company Logo

Navigation

- Book Rooms
- Booked History
- Rejected History
- Cancelled history

History

Cancellation History

S NO	Category	Room	Date	Start	End
1	Red Building	Room 3	13/12/2022	9:00	10:00
2	Red Building	Room 1	13/12/2022	19 : 0	20 : 0

Learning Outcomes :

Thus, I learn to build prototype - web app using rest api and frontend api by using nosql database mongodb.