

# **RESERVED ROOM FOR COMPUTER SCIENCE DEPARTMENT**

submitted by  
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In partial fulfillment of the requirements for the award of the Degree of  
**Master of Computer Applications** from Bharathiar University, Coimbatore.

under the internal supervision of  
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December 2021 – March 2022.**

**RATHNAVEL SUBRAMANIAM COLLEGE OF ARTS AND SCIENCE**

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**Department of Computer Applications (MCA)**

**Project work & Viva-voce**

*Bona Fide Certificate*

This is to certify that this a *bonafide* record of work done by Mr. /

Ms .....

Register No. .... during the academic year 2020 – 2021 and submitted for the

End Semester Project viva voce held on .....

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**STAFF – IN CHARGE**

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

*Certificates*

## **Certificate**

This is to certify that the dissertation entitled **RESERVED ROOM**, submitted to the School of Computer Studies, Rathnavel Subramaniam College of Arts and Science in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a record of the original project work done by **GOKULNATH S** during the period December 2020-March 2021 of their study on MCA in the Rathnavel Subramaniam College of Arts and Science, under my internal supervision and the dissertation has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or another similar title to any candidate of any University.

**Internal Supervisor**

## ***Declaration***

## **Declaration**

We, **GOKULNATH S**, hereby declare that the dissertation, entitled **RESERVED ROOM**, submitted to the School of Computer Studies, Rathnavel Subramaniam College of Arts and Science, in partial fulfilled the requirements for the award of the Degree of Master of Computer Applications is a record of original project work done by us during the period December 2020–March 2021 under the internal supervision of **Dr.G.Pandiyan, Associate Professor**, Department of Computer Applications and it has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or another similar title to any candidate of any University.

**Signature of the Candidate**

## ***Acknowledgment***

## Acknowledgment

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**GOKULNATH S**



# **RESERVED ROOM**

***Abstract***

# Abstract

Reserved Room website is used to reserve the room for the programs for staff. The registered person can view the time availability of room for the convinces

**Frontend Tools/ Technology Web:** React

**Backend Tools/ Technology:** NodeJS

**Database Technology:** MongoDB

**Git repository link:** <https://github.com/gokulnath0307/Reserved-Room.git>

**Frontend Tools/ Technology:** React JS

**Backend Tools/ Technology:** Node JS

**Database Technology:** MongoDB Atlas

**Hosting Environment:**

**Node:**

**React:**

**React Native:**

**MongoDB:**

**Website link:**

**Mobile App link:**

**Git repository link:** <https://github.com/gokulnath0307/Reserved-Room.git>

## ***Index***

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## *Introduction*

## **Introduction**

This website is developed to propose reserving the room and allocating the time slot, so we named it RESERVED ROOM. The major function of the site is booking the room by login. This may help to avoid the overlapping of the program timing at the same moment. It can reduce the manual work of writing and registration. While we can make the reservation manually, sometimes one or programs can be booked at the same time. To avoid these, our website can be used. This time slot for the various program can be allocated, by the previous schedule. This can be useful for the reservation and time allocation of the room.

## ***Module Description***



## **Module description**

Reserved Room has multiple main module and sub-modules and with an admin account one can access all modules the module in Reserved are as follow,

- **Profile**
- **Profile Edit**
- **Available Time and Date**
- **Information about Booking details**

### **Profile:**

Users can be viewing our details.

### **Profile Edit:**

Users can be updating our profile.

### **Available Date and Time:**

Users can view to book the event for convenience date and time.

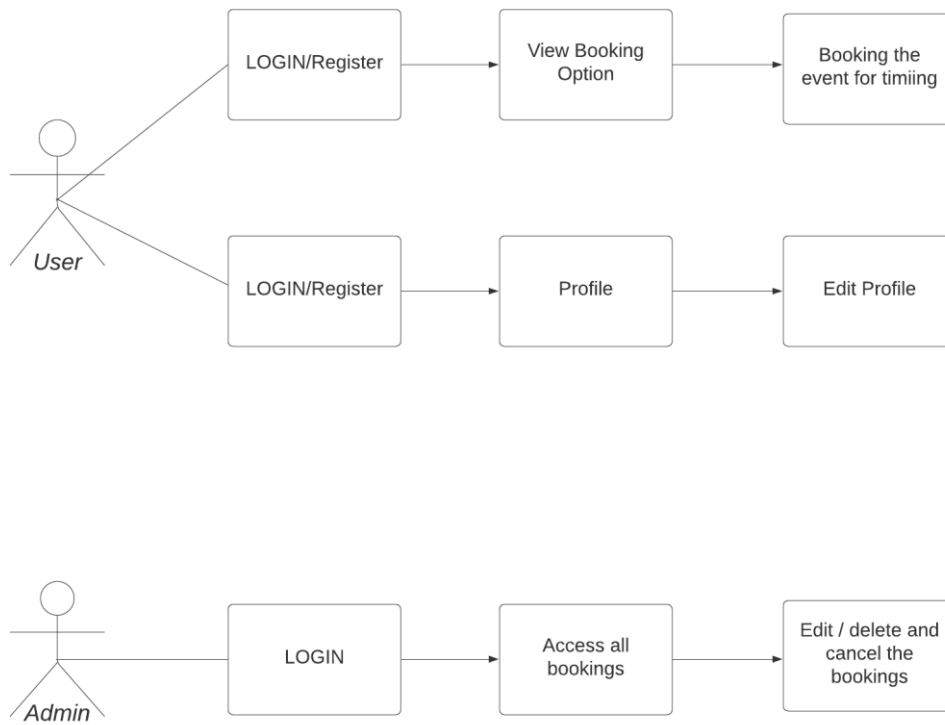
### **Information about Booking details:**

Admin only view and delete the booking details and cancel the booking event

## *Use Case Diagram*

# Use Case Diagrams

## Case Study



***Scheme(s) for the App***

## User Scheme:

```
const mongoose = require('mongoose')

const UserSchema = mongoose.Schema({

  name: {
    type: String,
    require: true
  },
  department: {
    type: String,
    require: true
  },
  email: {
    type: String,
    require: true
  },
  password: {
    type: String,
    require: true
  }

})

module.exports = mongoose.model('UserDetails', UserSchema)
```

## Booking Scheme:

```
const mongoose = require('mongoose')

const BookingFormSchema = mongoose.Schema({
  department: {
    type: String,
    require: true
  },
  reason: {
    type: String,
    require: true
  },
  name: {
    type: String,
    require: true
  },
  email: {
    type: String,
    require: true
  },
  date: {
    type: String,
    require: true
  },
  start: {
    type: String,
    require: true
  },
  end: {
    type: String,
    require: true
  }
})

module.exports = mongoose.model('Booking', BookingFormSchema)
```

## Admin Scheme:

```
const mongoose = require('mongoose')

const AdminSchema = mongoose.Schema({

  name: {
    type: String,
    require: true
  },
  username: {
    type: String,
    require: true
  },
  password: {
    type: String,
    require: true
  }
})
module.exports = mongoose.model('Admin', AdminSchema)
```

***APIs for the App***



## Users APIs:

Method: POST

API: /user/register

Description: New Users can use this API for registration purposes.

Method: POST

API: /user/getuser

Description: This API can use to get all registered user details

Method: POST

API: /user/login

Description: This API can use to log in for users' purpose

Method: GET

API: /user/getusers

Description: This API can use to get only one user's details.

Method: PUT

API: /user/updateuser

Description: This API can use to edit and update the user details.

## **Booking APIs:**

Method: POST

API: /booking /add

Description: Users can use this API for booking the event.

Method: POST

API: /booking/getOneBookingDetails

Description: Admin only uses this API to get all booking details.

Method: POST

API: /booking/deleteBooking

Description: Admin only uses this API to delete the booking details

Method: GET

API: /booking/getBooking

Description: Admin and Users can get the booking the details

Method: PUT

API: /booking/editBoooking

Description: Admin only uses this API to edit the booking event time.

## **Admin Scheme:**

Method: POST

API: /admin/register

Description: This API can use to create the new admin

Method: POST

API: /admin/login

Description: This API can use to log in for Admin purpose.

Method: GET

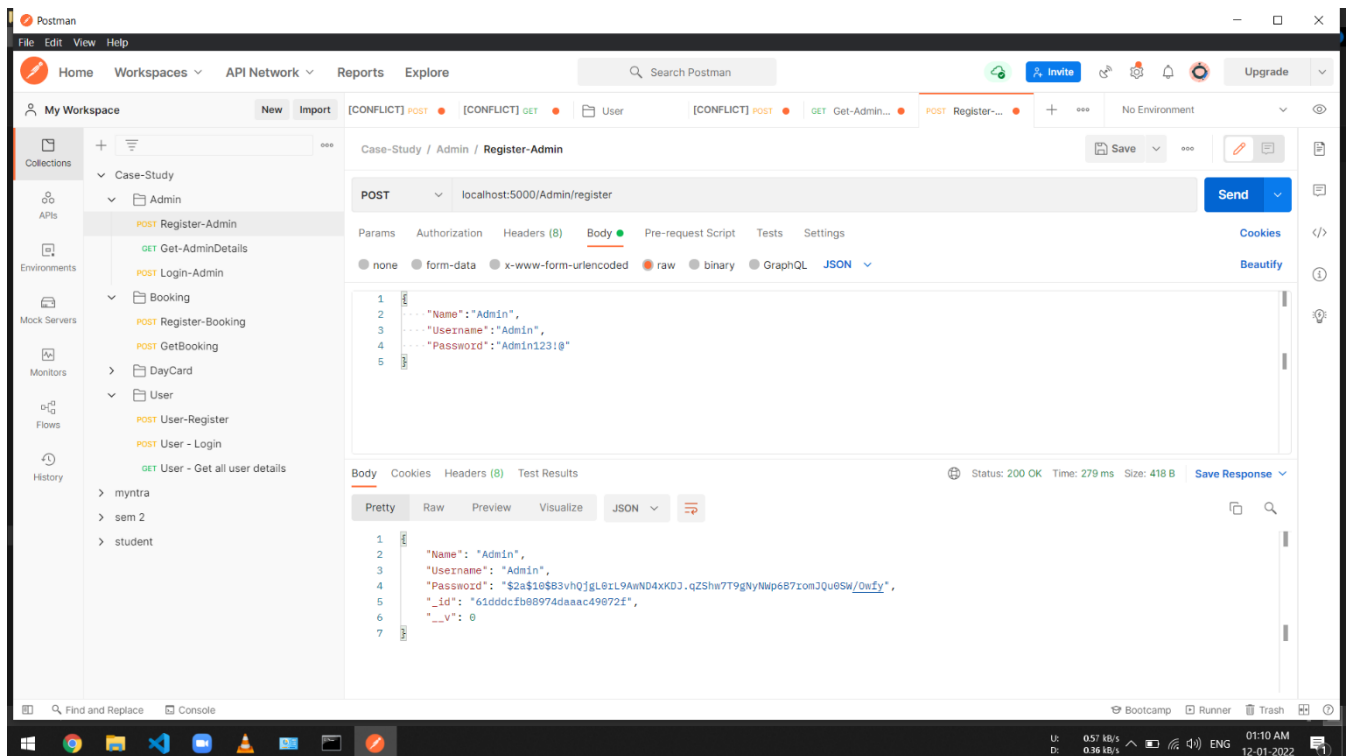
API: /admin/getAdmin

Description: This API can use to Admin details.

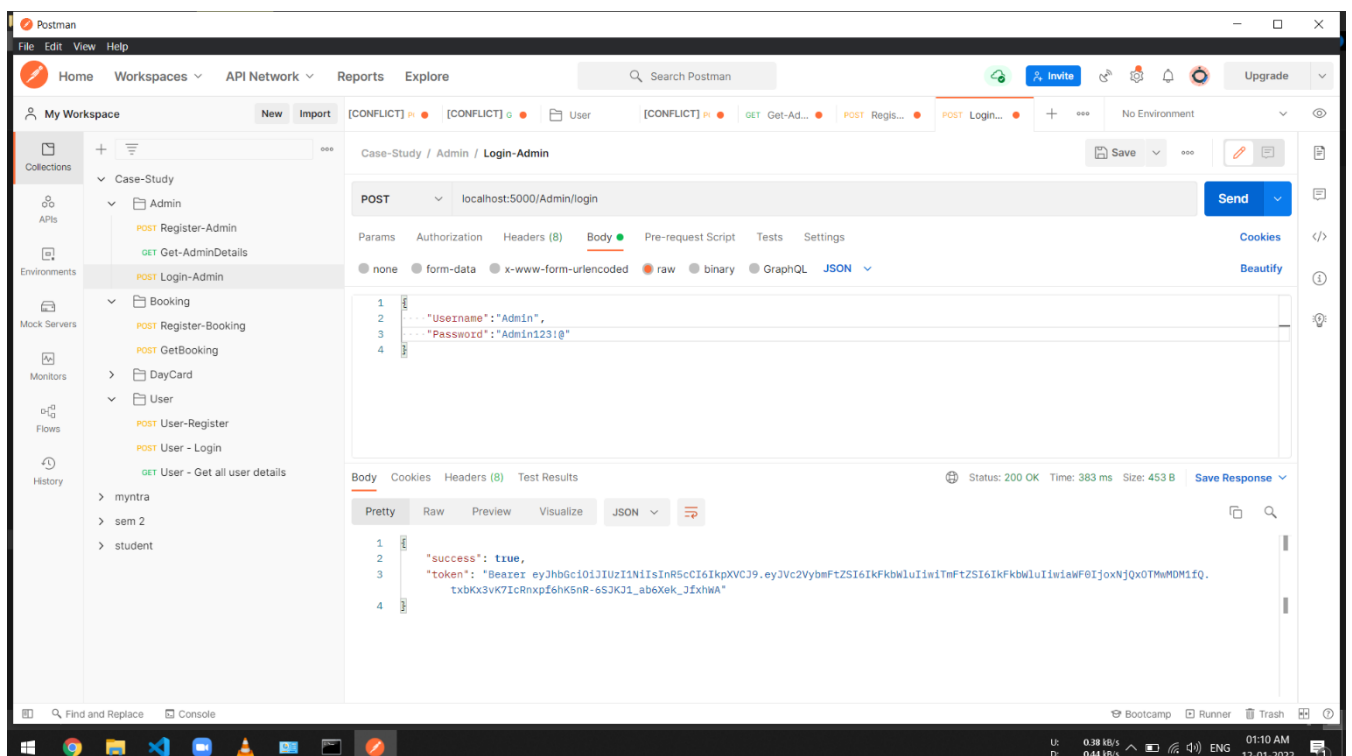
**Connect the API with screens**

## Admin APIs:

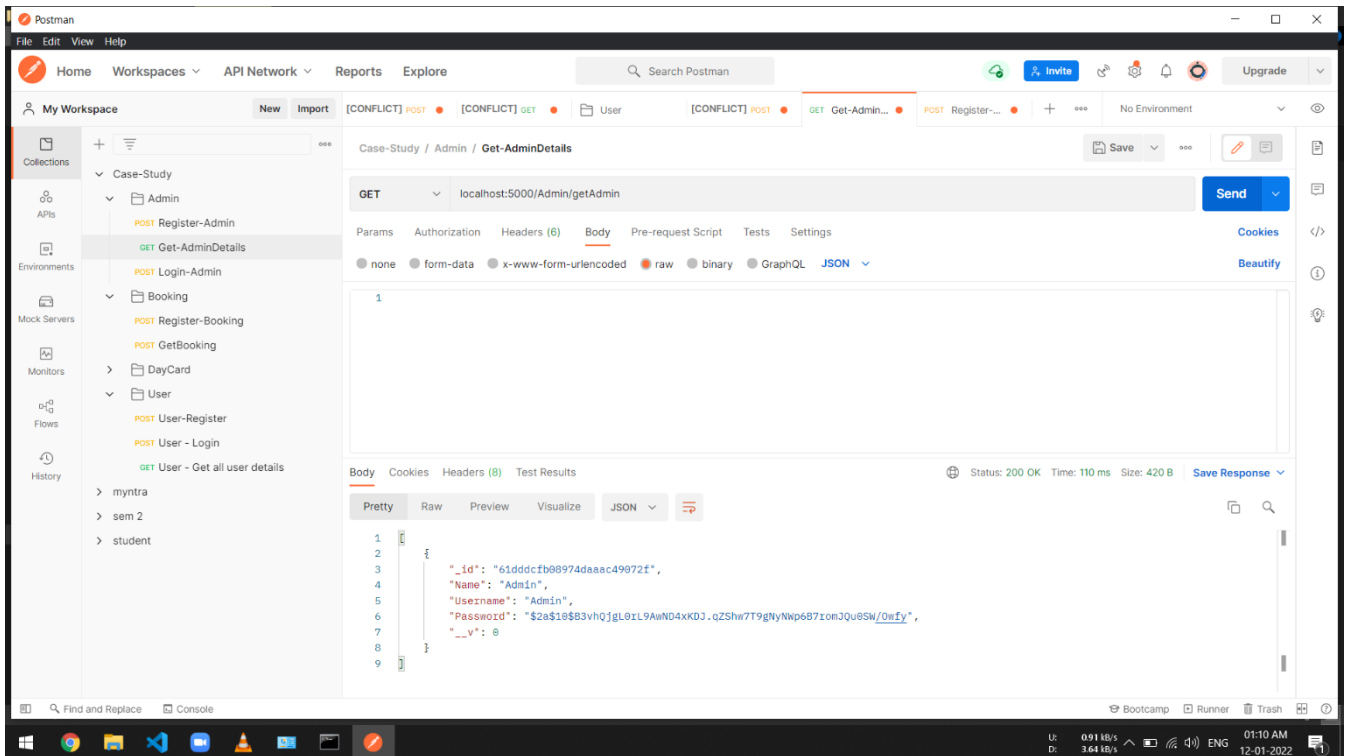
## 1. Admin Register



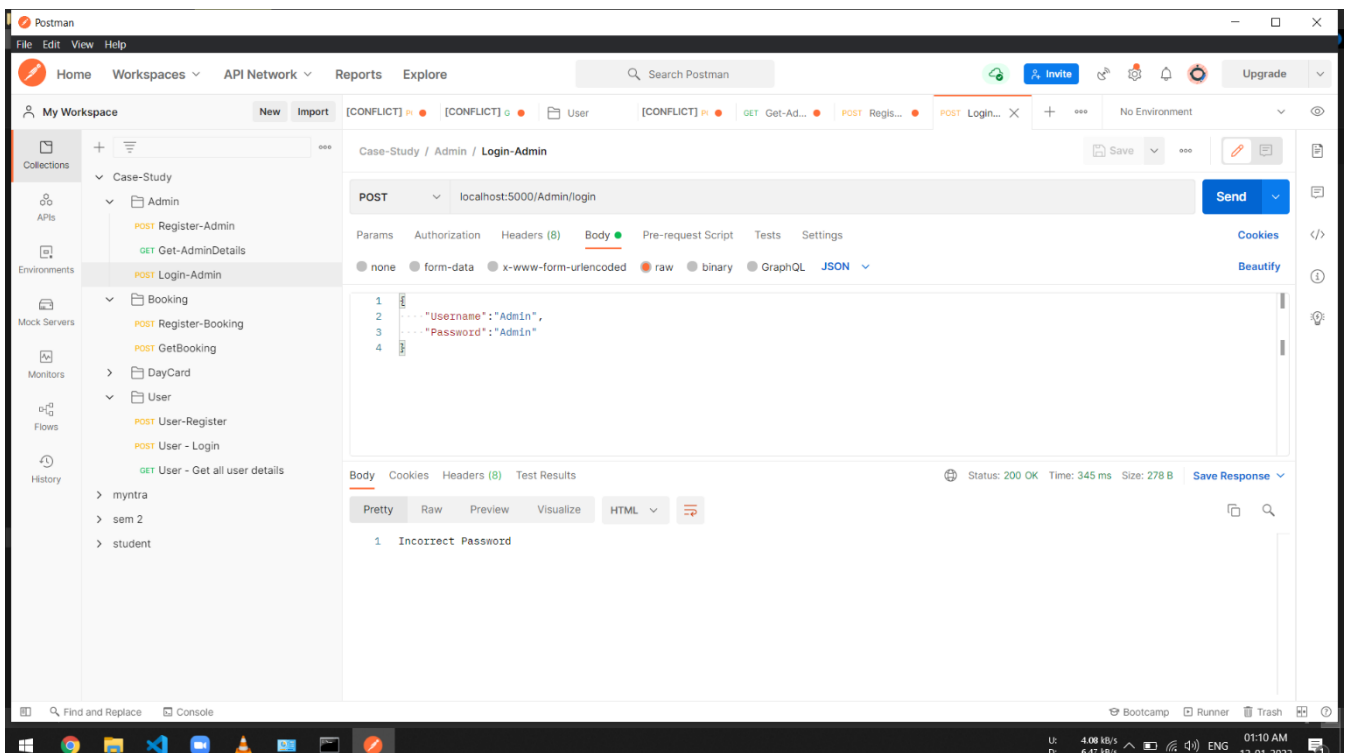
## 2. Admin Login



### 3. Admin Details

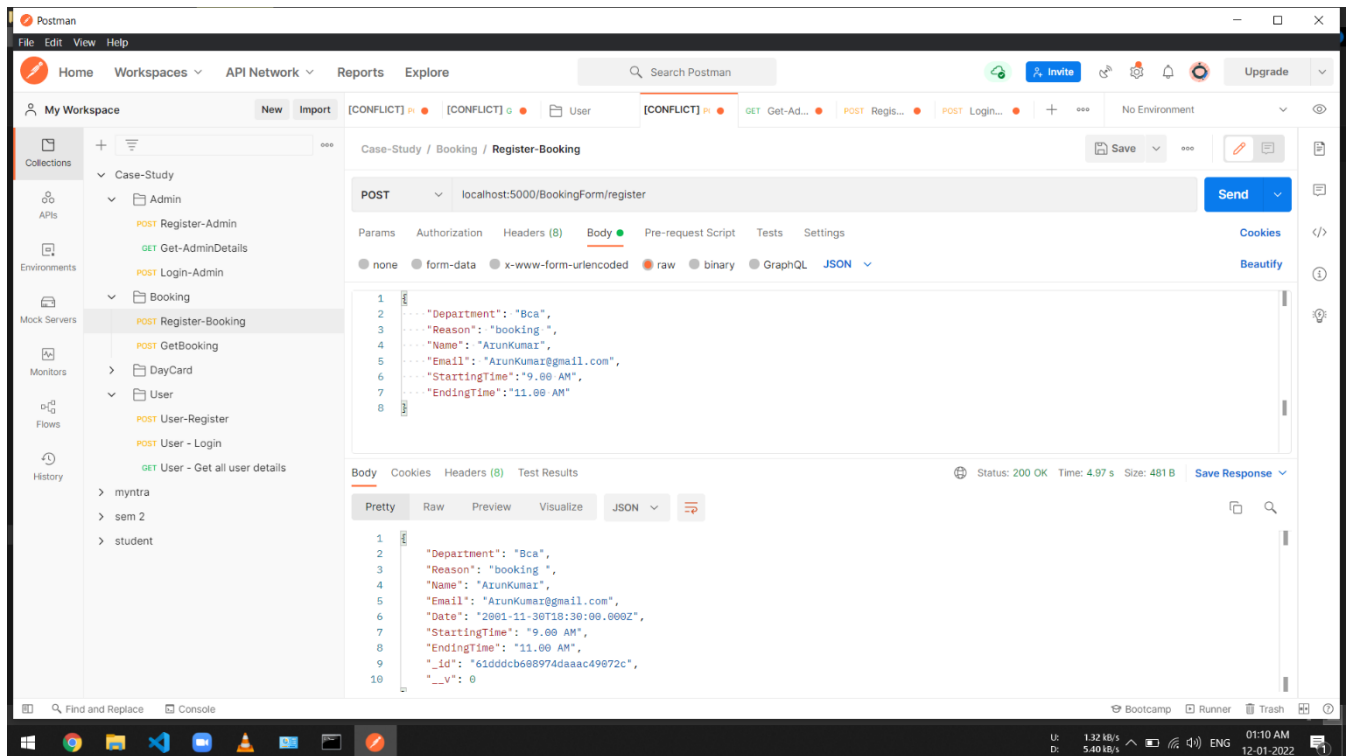


### 4. Admin Password Error Handling

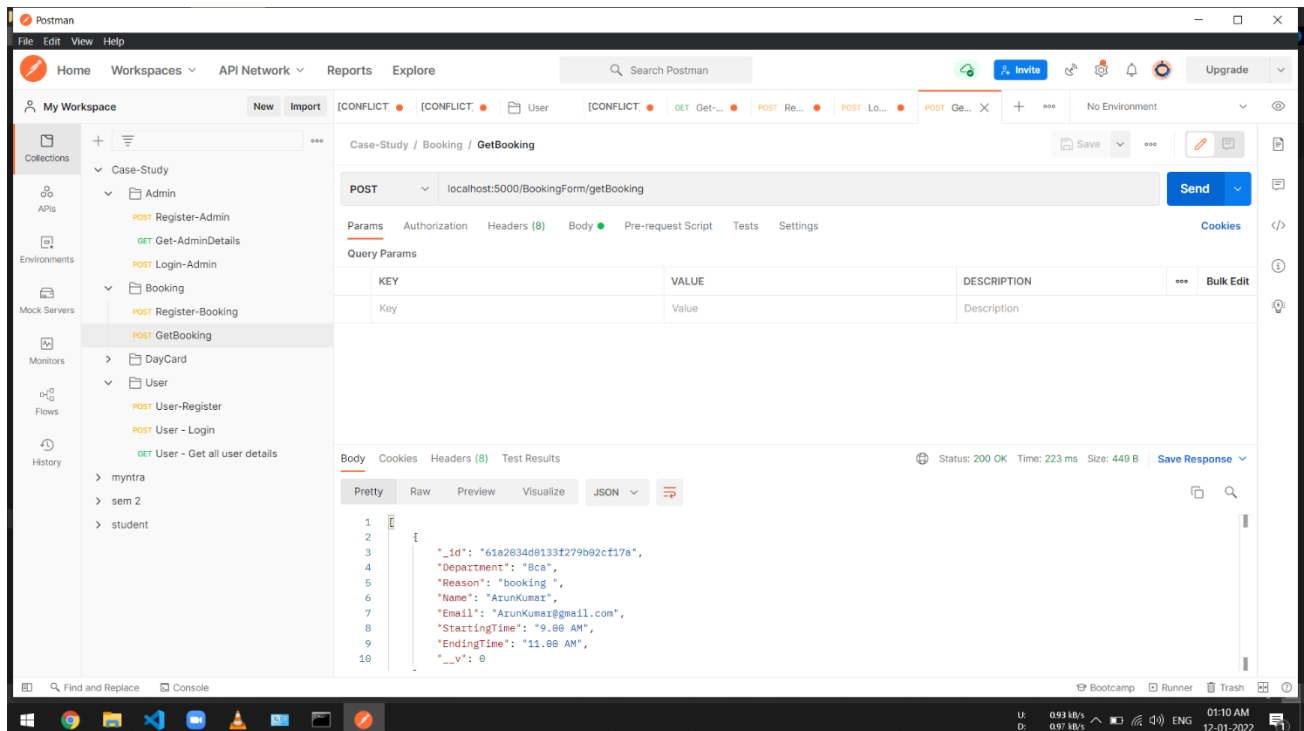


## Booking APIs:

### 1.Booking Register

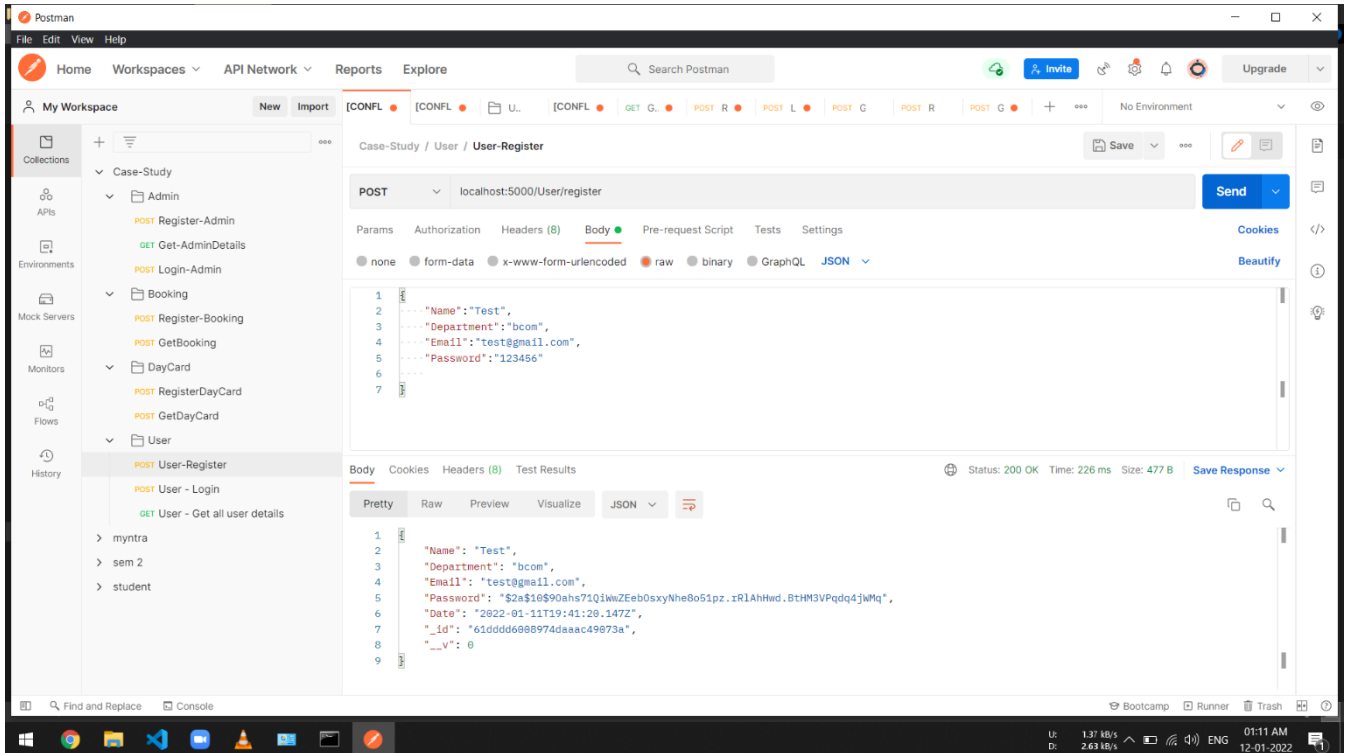


### 2. Booking Details

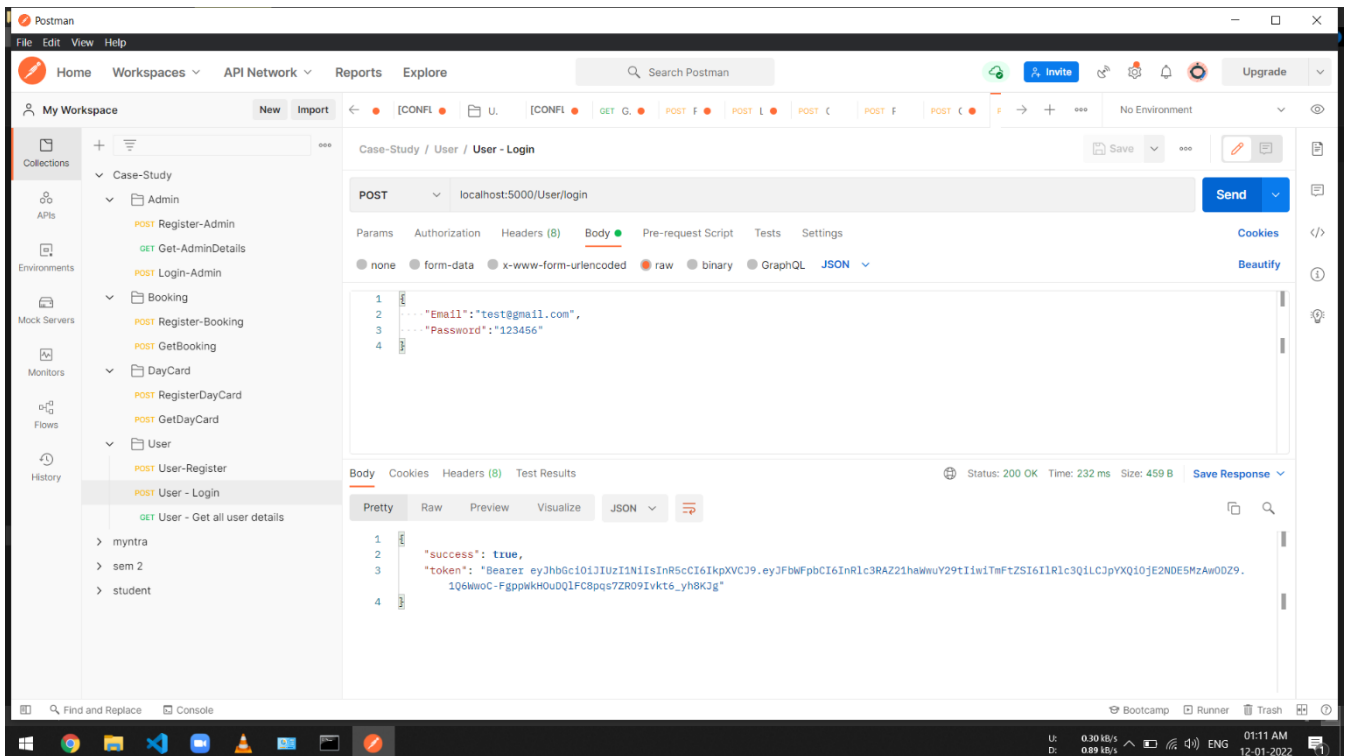


## User APIs:

### 1. User Register

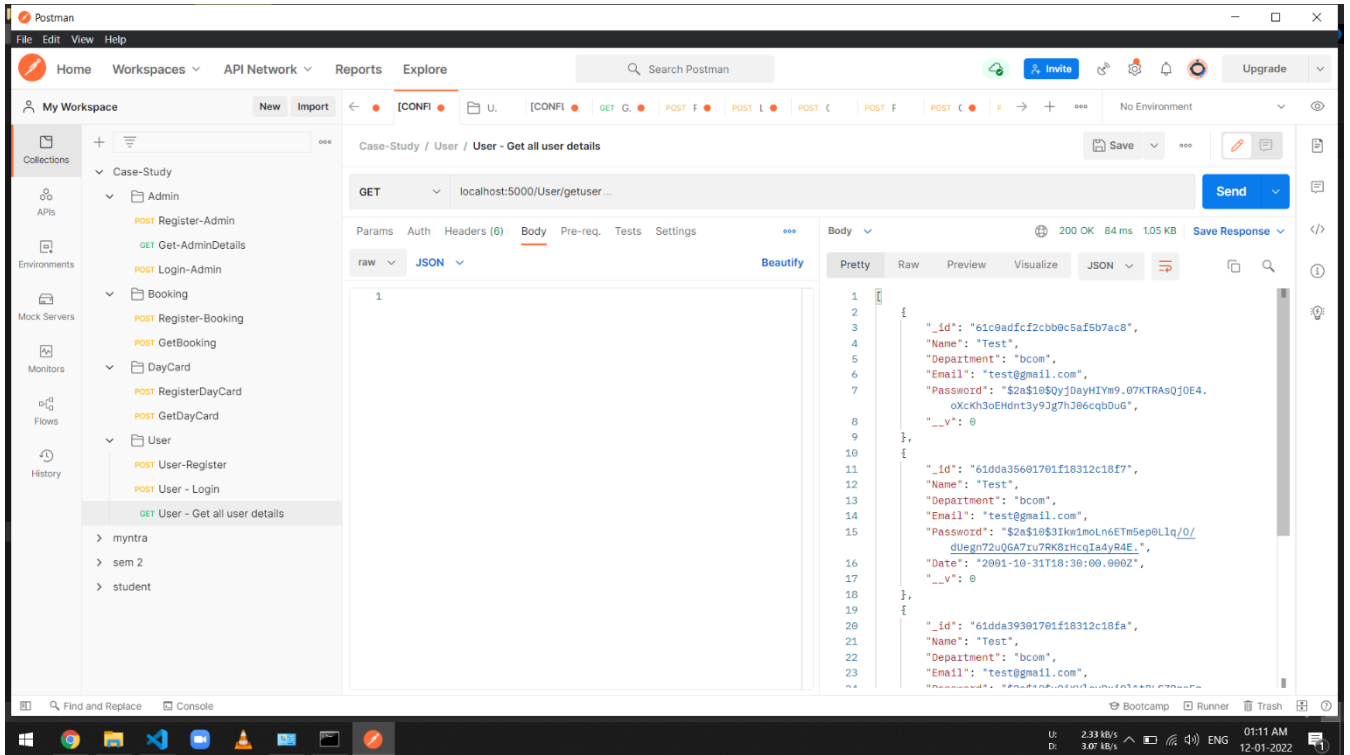


### 2. User Login Details



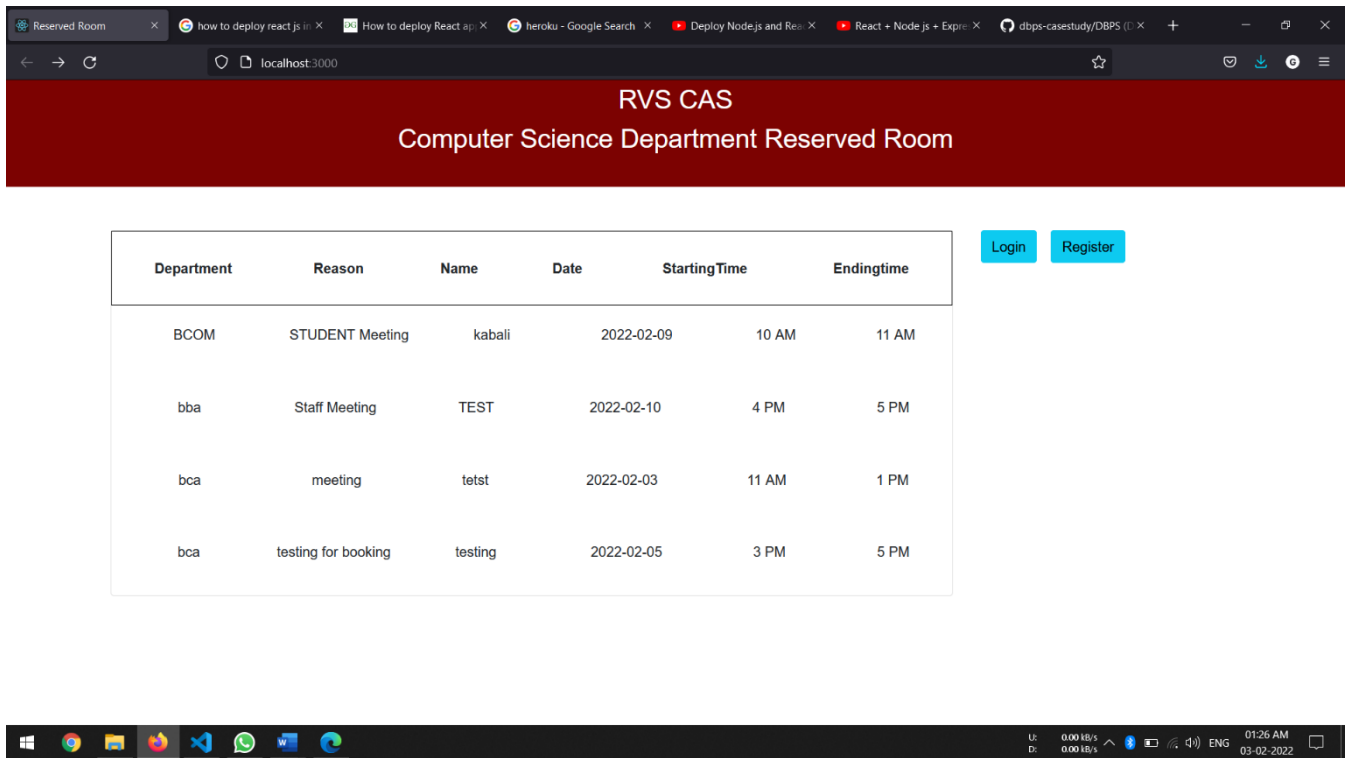


## 2. User Details



*User Manual*

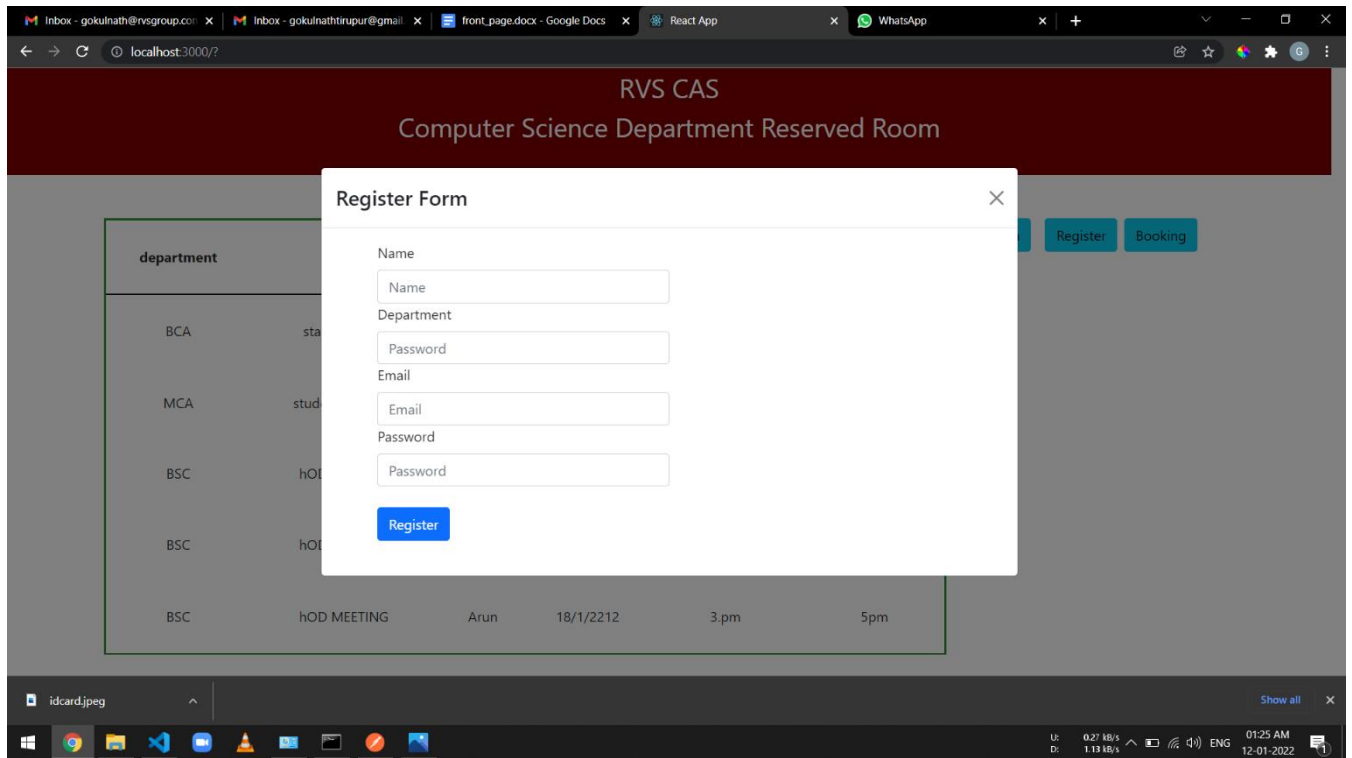
## Home Page:



## Description:

In Homepage, Users can do the Register or Login with the following details and previous booking details

## Register Page:



The screenshot shows a web browser window displaying the 'RVS CAS Computer Science Department Reserved Room' interface. A 'Register Form' modal is open, featuring the following fields: Name, Department, Password, Email, and another Password field. A blue 'Register' button is located at the bottom of the form. In the background, a table lists departments and their corresponding reservation details.

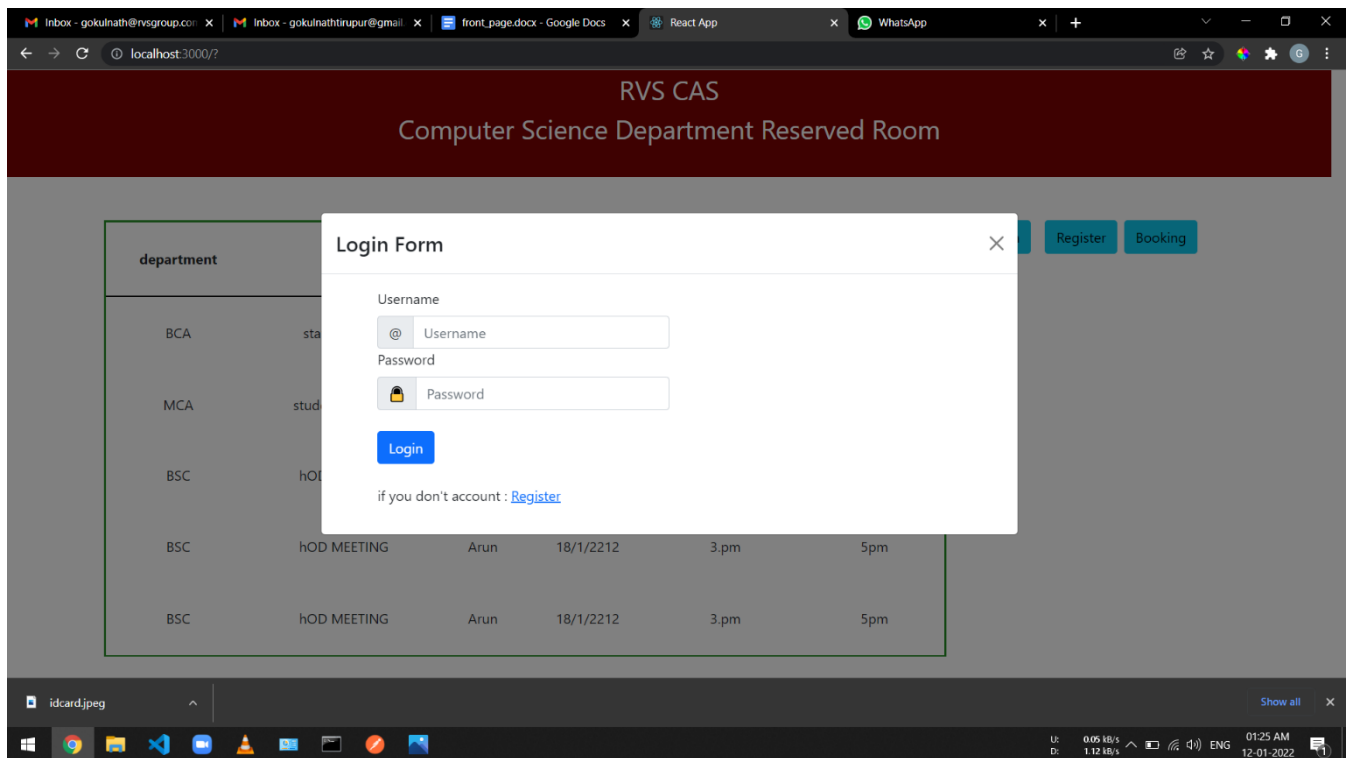
department	reservation
BCA	sta
MCA	stud
BSC	hO
BSC	hO
BSC	hOD MEETING

At the bottom of the table, the following details are visible: Arun, 18/1/2212, 3.pm, 5pm.

### Description:

In Register User can Register with their following fields such as Name, Dept, Email & Password

## Login Page:



## Description:

In Login Users can login with their Username & Password

## After Login Page:

The screenshot shows a web browser window with the URL `localhost:3000`. The page has a dark red header with the text "RVS CAS" and "Computer Science Department Reserved Room". Below the header, the username "Username:gokul" is displayed. To the right of the username is a "View Profile" link with a user icon. Below the username is a table with the following data:

Department	Reason	Name	Date	StartingTime	Endingtime
bca	hod meeting	karan	10/02/2022	10am	12pm
BCOM	STUDENT Meeting	kabali	2022-02-09	10 AM	11 AM
bba	Staff Meeting	TEST	2022-02-10	4 PM	5 PM
bca	meeting	tetst	2022-02-03	11 AM	1 PM

To the right of the table are two buttons: "Logout" and "booking". The Windows taskbar is visible at the bottom of the screen.

## Description:

After Users can successfully view the booking option and previous booking data and view the profile option on the page.

## Booking Form Page:

The screenshot displays a web application interface for booking a room. The main heading is "RVS CAS Computer Science Department Reserved Room". A modal form titled "Booking Form" is open, containing the following fields:

- Department Name:
- Booking Reason:
- Name:
- Date:
- Starting Time:
- Ending Time:

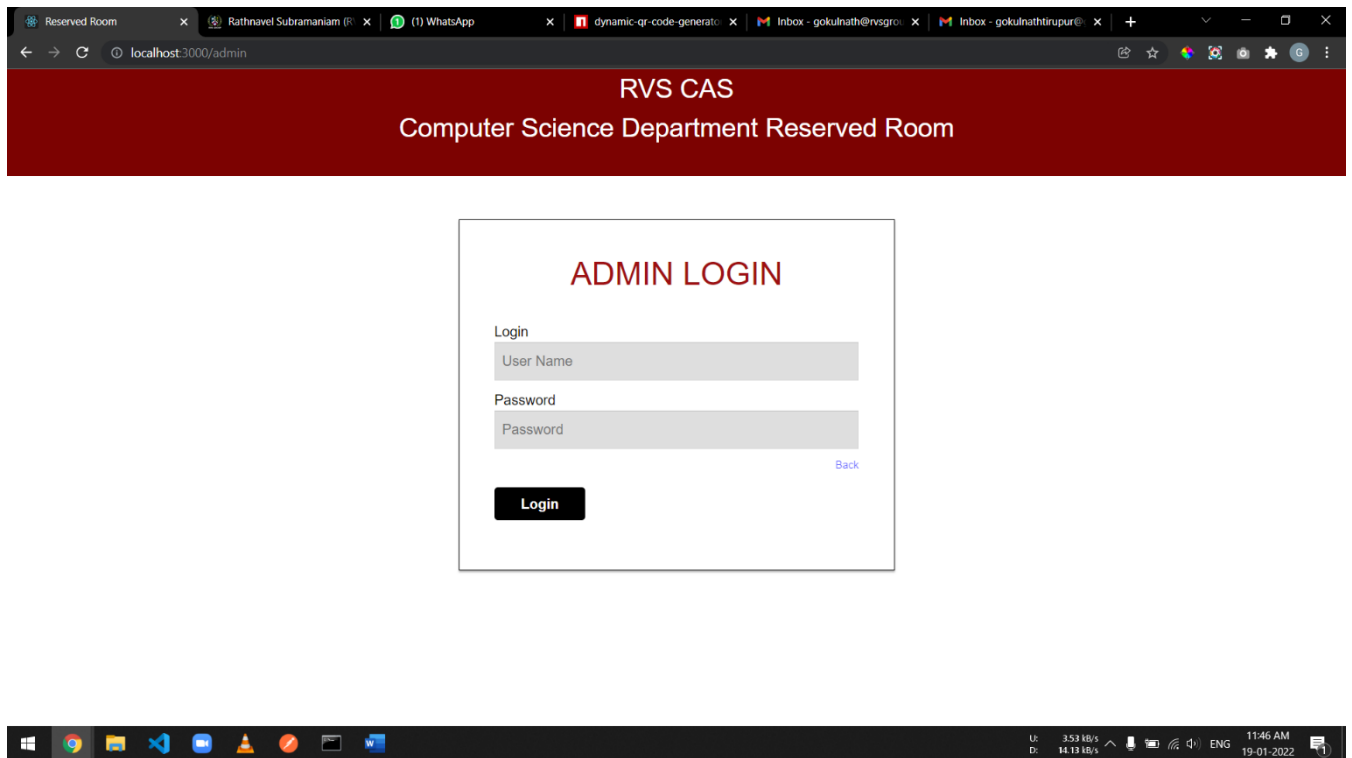
A blue "Register" button is located at the bottom of the form. In the background, a table lists reserved rooms with columns for department, name, date, and time. The table data is as follows:

department	name	date	time
BCA	sta		
MCA	stud		
BSC	hO		
BSC	hO		
BSC	hOD MEETING	Arun 18/1/22	12 3.pm 5pm

### Description:

In Booking, Users can Book their Room on Specific Days with the following data

## Admin Login Page:

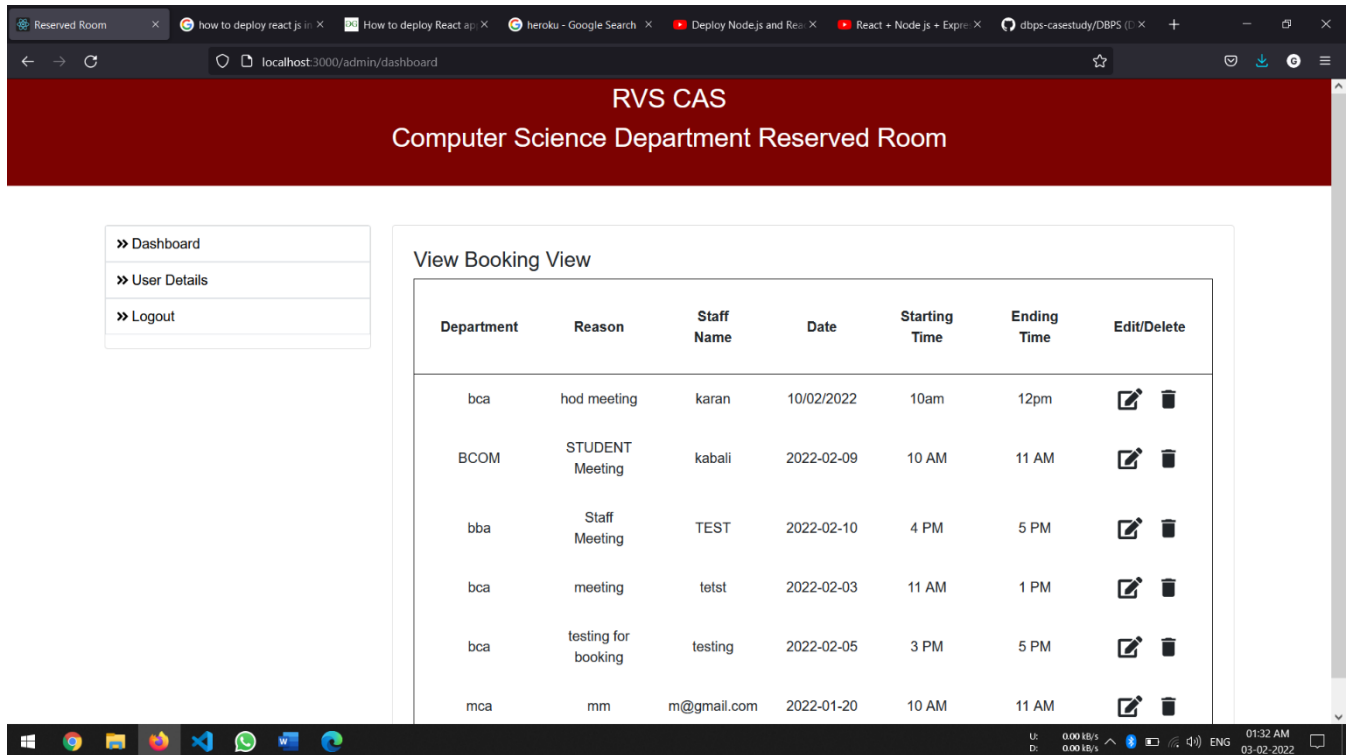


### Description:













In Login Admin can login with their Username & Password



## Admin Dashboard Page:



The screenshot displays the Admin Dashboard for the RVS CAS Computer Science Department Reserved Room. The dashboard is accessible at `localhost:3000/admin/dashboard`. It features a sidebar with navigation options: Dashboard, User Details, and Logout. The main content area, titled 'View Booking View', contains a table listing booking details.

Department	Reason	Staff Name	Date	Starting Time	Ending Time	Edit/Delete
bca	hod meeting	karan	10/02/2022	10am	12pm	 
BCOM	STUDENT Meeting	kabali	2022-02-09	10 AM	11 AM	 
bba	Staff Meeting	TEST	2022-02-10	4 PM	5 PM	 
bca	meeting	tetst	2022-02-03	11 AM	1 PM	 
bca	testing for booking	testing	2022-02-05	3 PM	5 PM	 
mca	mm	m@gmail.com	2022-01-20	10 AM	11 AM	 

### Description:

After Admin can successfully login to visit the dashboard page. In the dashboard, all booking details and admin can be edited and deleted the booking details.

## Registered User Details

The screenshot displays a web application interface for 'RVS CAS' (Computer Science Department Reserved Room). The browser's address bar shows 'localhost:3000/admin/userdetails'. The page features a red header with the application name and a sidebar on the left with navigation links: 'Dashboard', 'User Details', and 'Logout'. The main content area, titled 'Register User Details', contains a table listing registered users.

Department	Staff Name	Email
mca	gokul	gokul@gmail.com
mca	rahul	rahul@gmail.com
MCA	Kabali	kabali@gmail.com

### Description:

On this page, Admin can view all registered users details

*Conclusion*  
*And*  
*Future Enhancement*

**Future Enhancement:**

In the future, this website can update by linking the program with google calendar for registered persons, and further, we can add reminders for the program. Also, a notification alert will send through the mail for the person

**Conclusion:**

This website is useful to reserve the room program login in the RESERVED ROOM website. The overlapping of one or two programs can be avoided. There is no need for staff to be appointed for the registration for the room as manually. Conclude the main aim of the website is the reservation of a room