RESERVED ROOM
FOR
COMPUTER SCIENCE DEPARTMENT

submitted by

GOKULNATH S

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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Project work & Viva-voce

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

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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

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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**

- **Available Time and Date**

- **Information about Booking details**

Profile:
Users can be viewing our details.

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
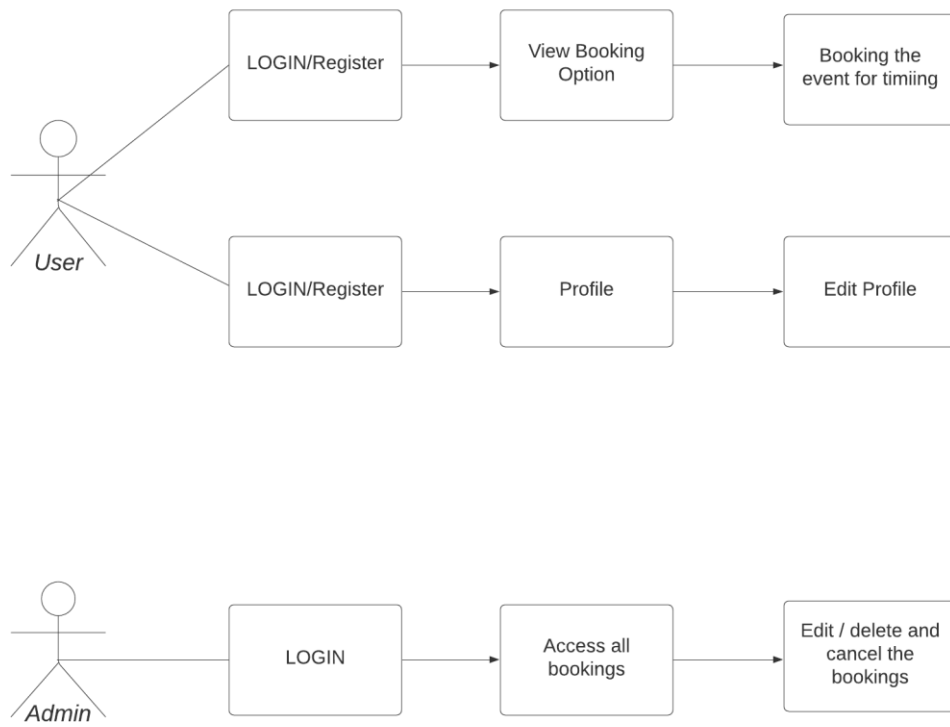
Scheme(s)for the App

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
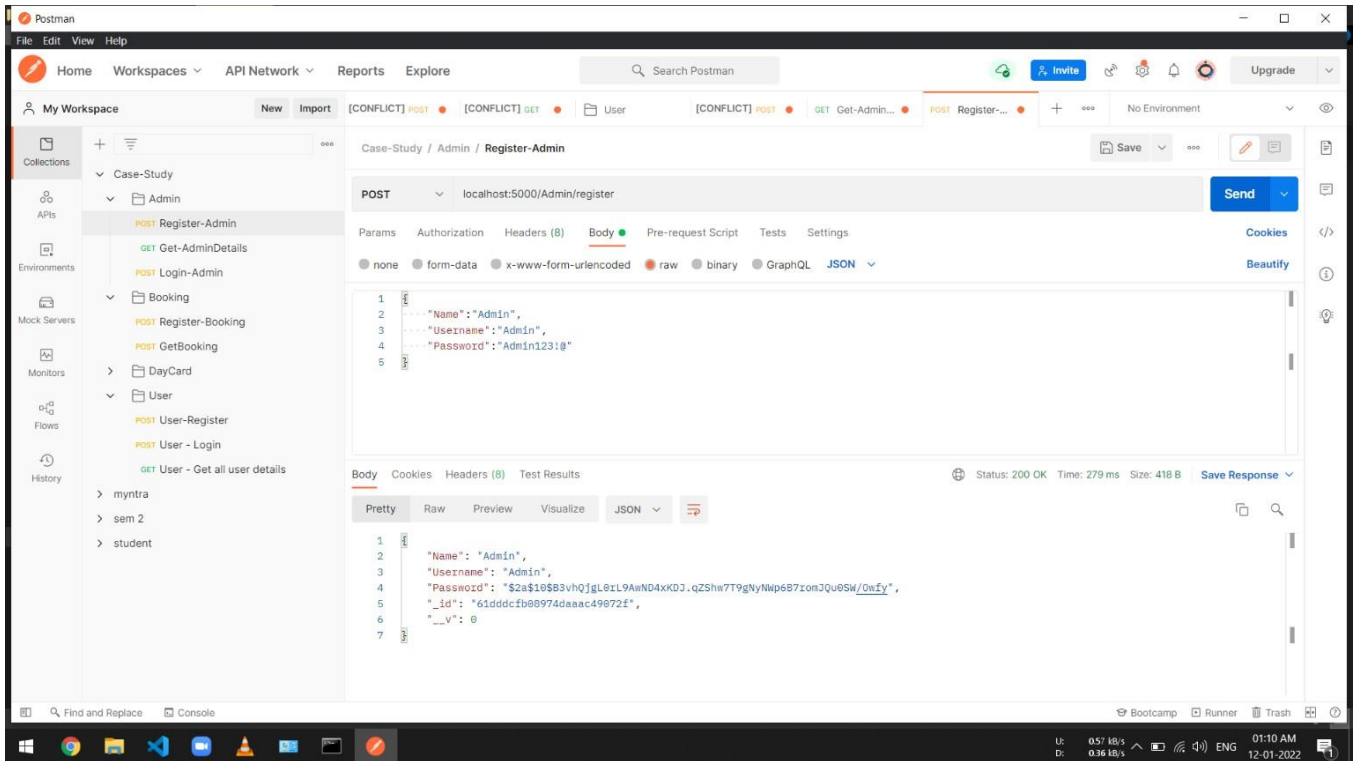
2. Admin Login
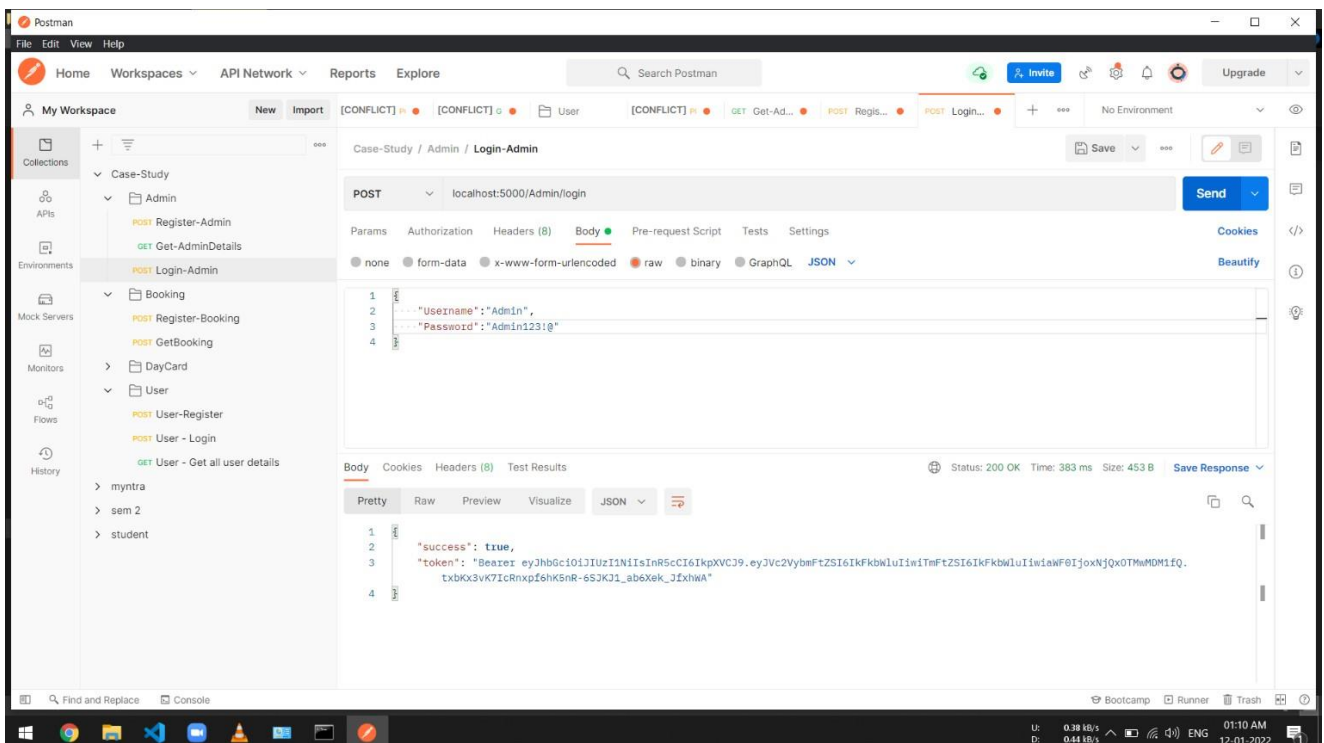
3. Admin Details
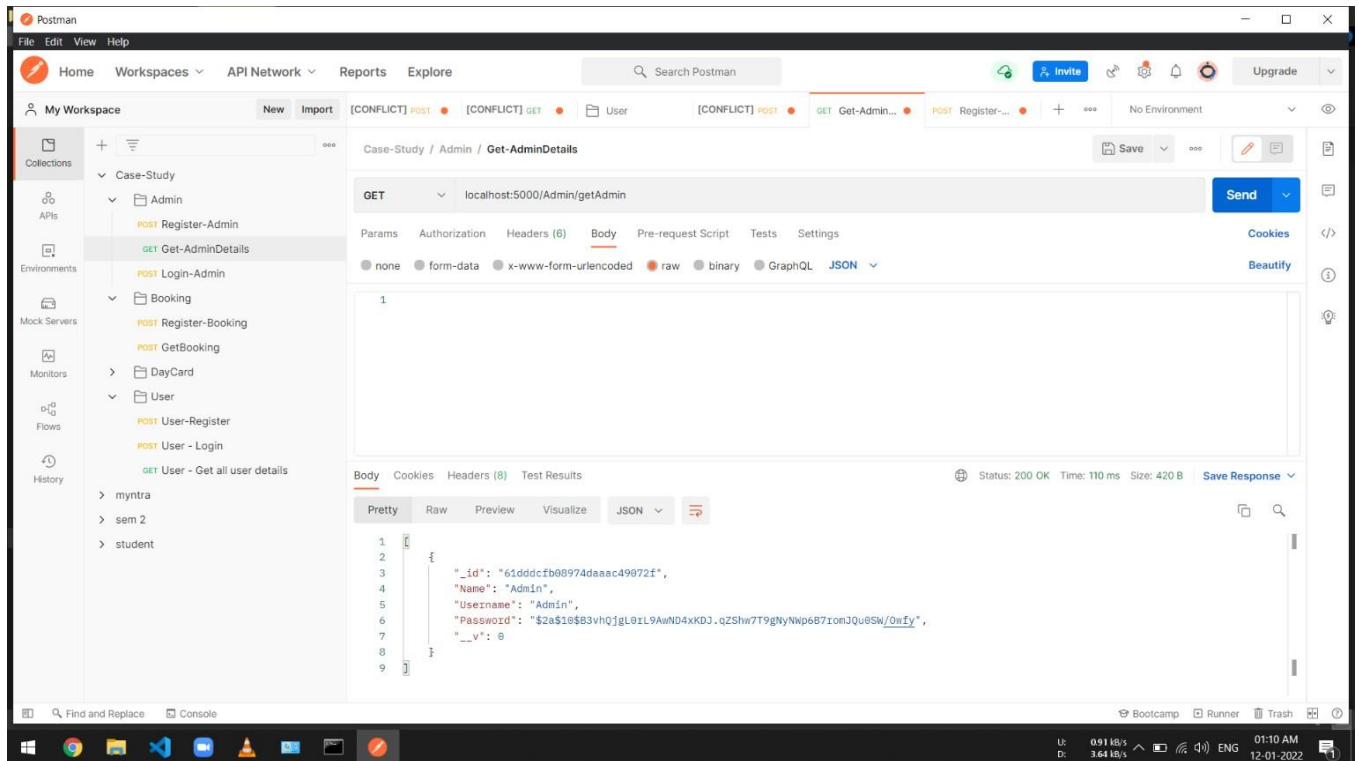
4. Admin Password Error Handling
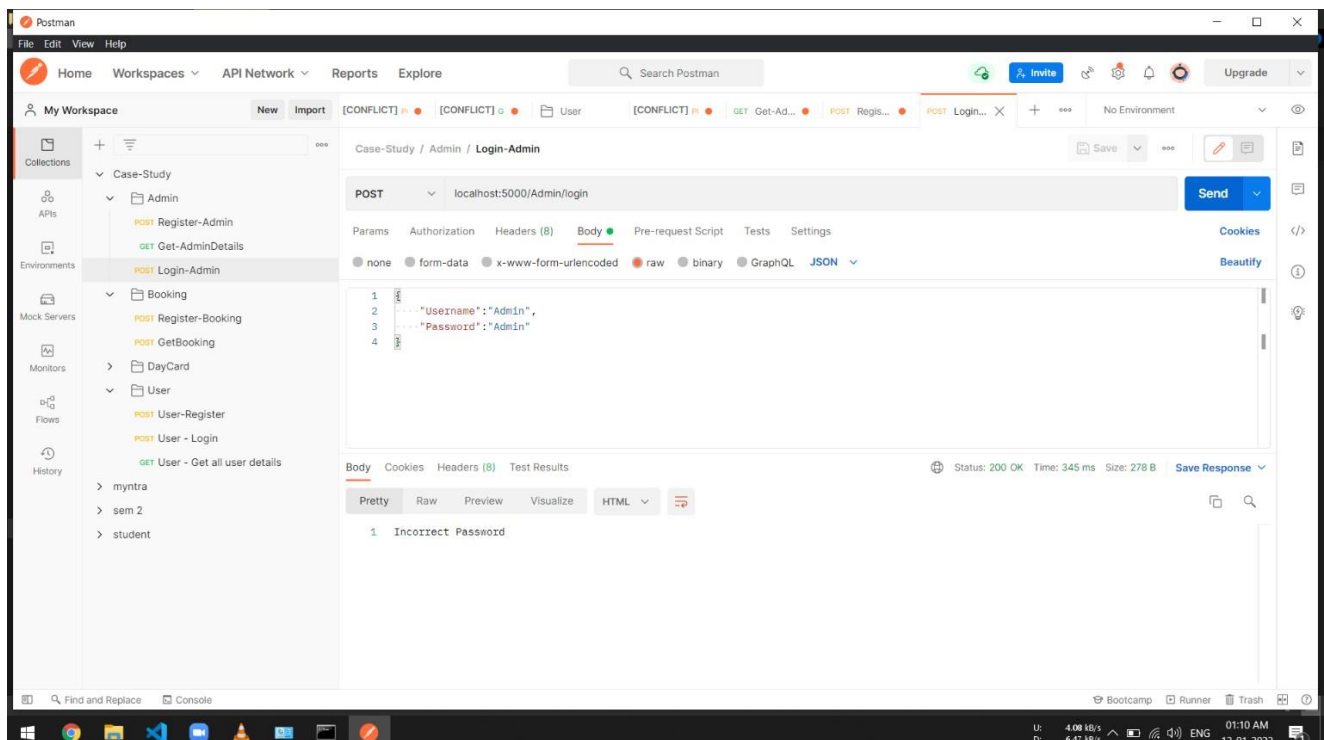
Booking APIs:

1. Booking Register
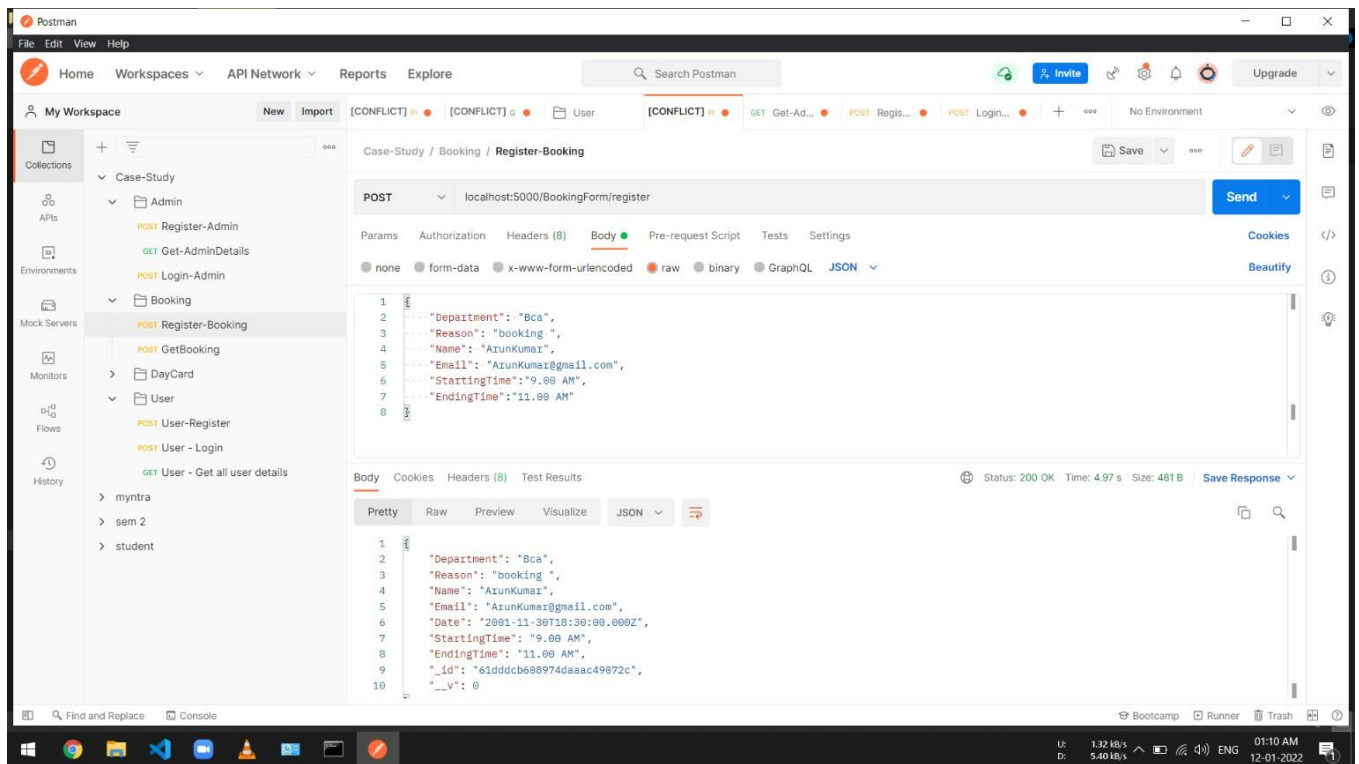
2. Booking Details
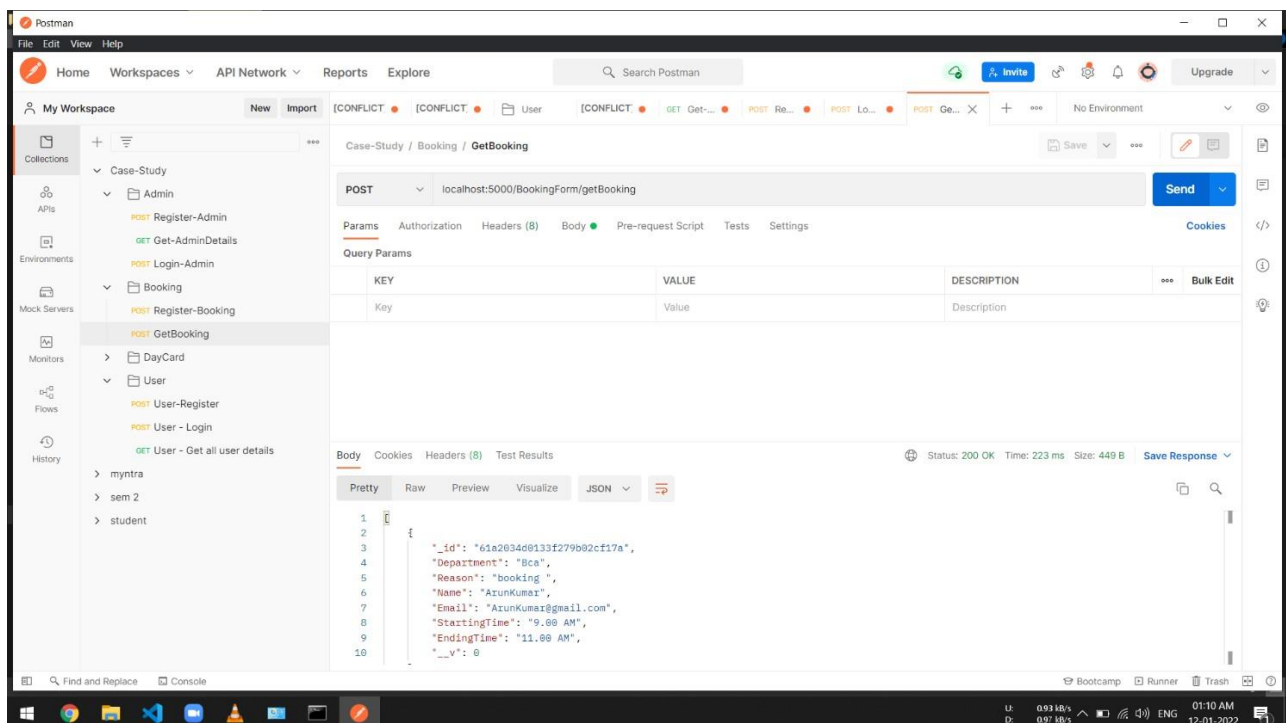
User APIs:

1. User Register
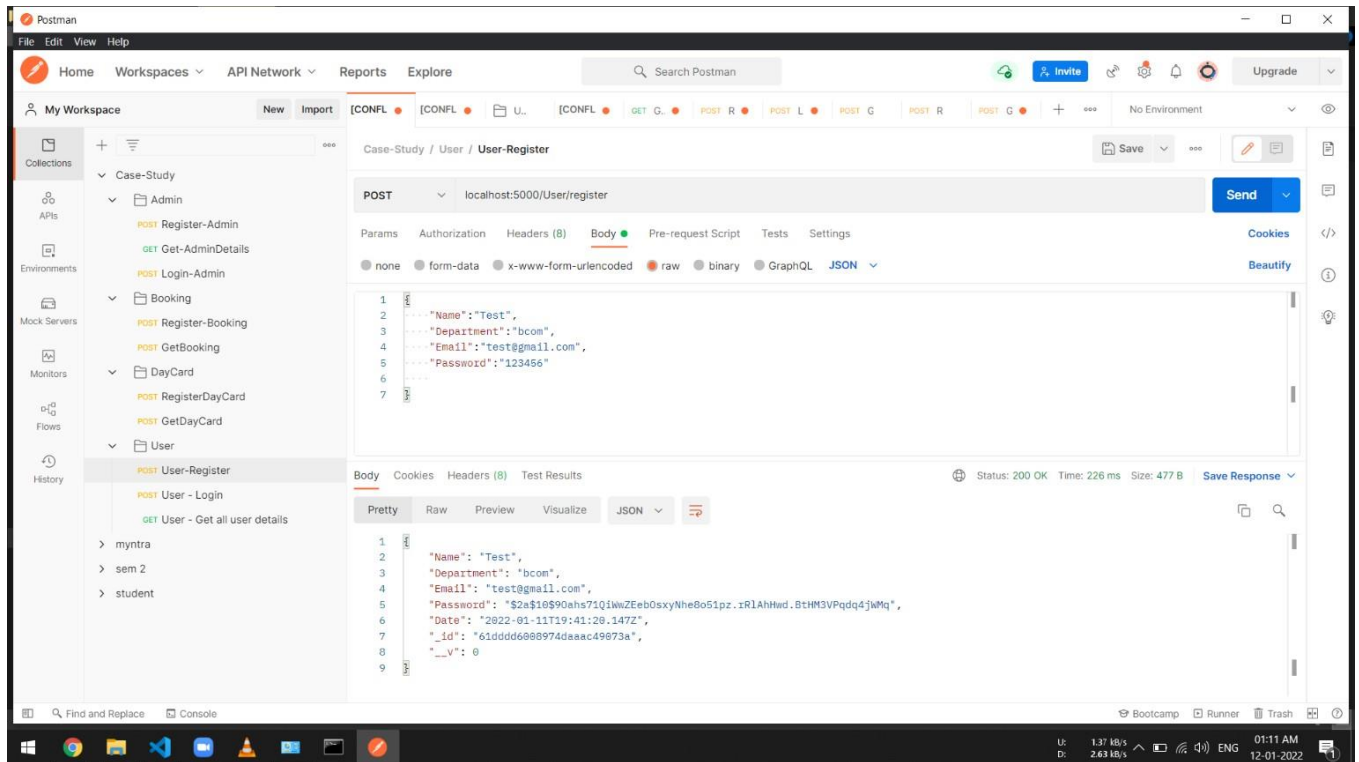
2. User Login Details
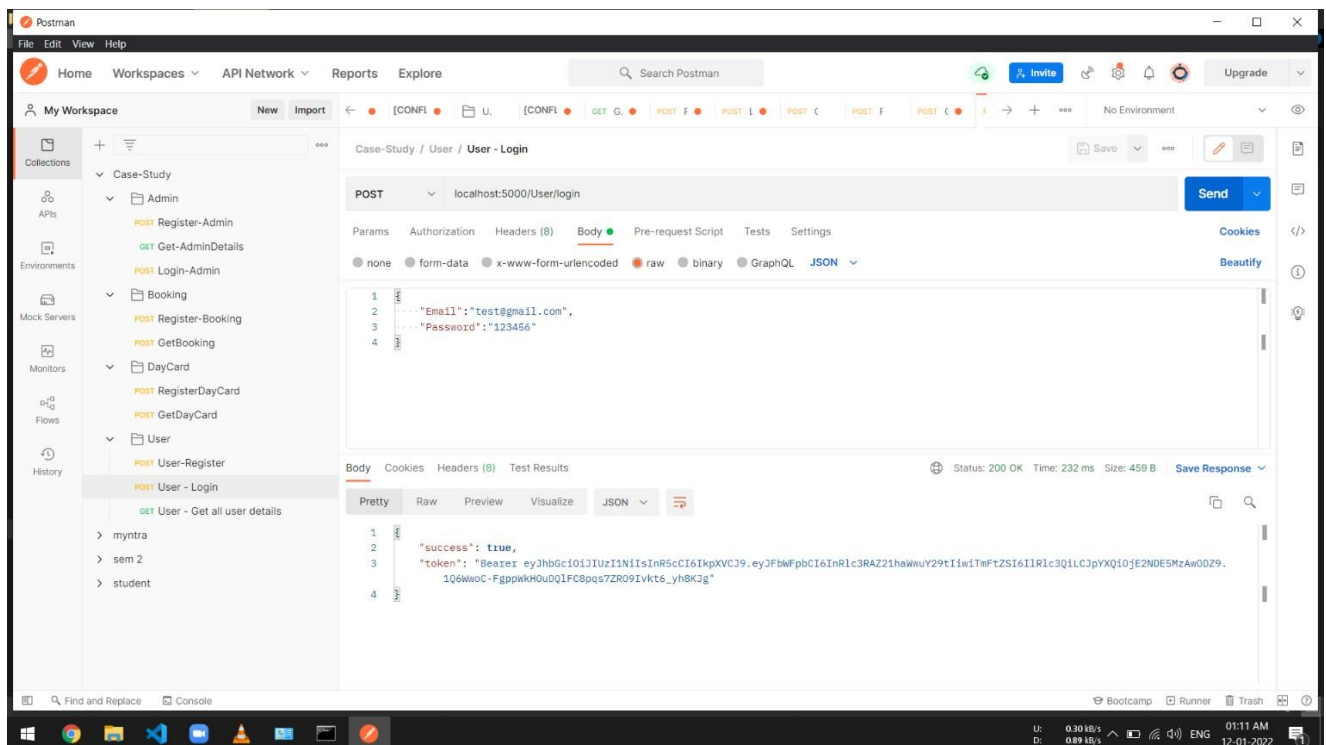
2. User Details
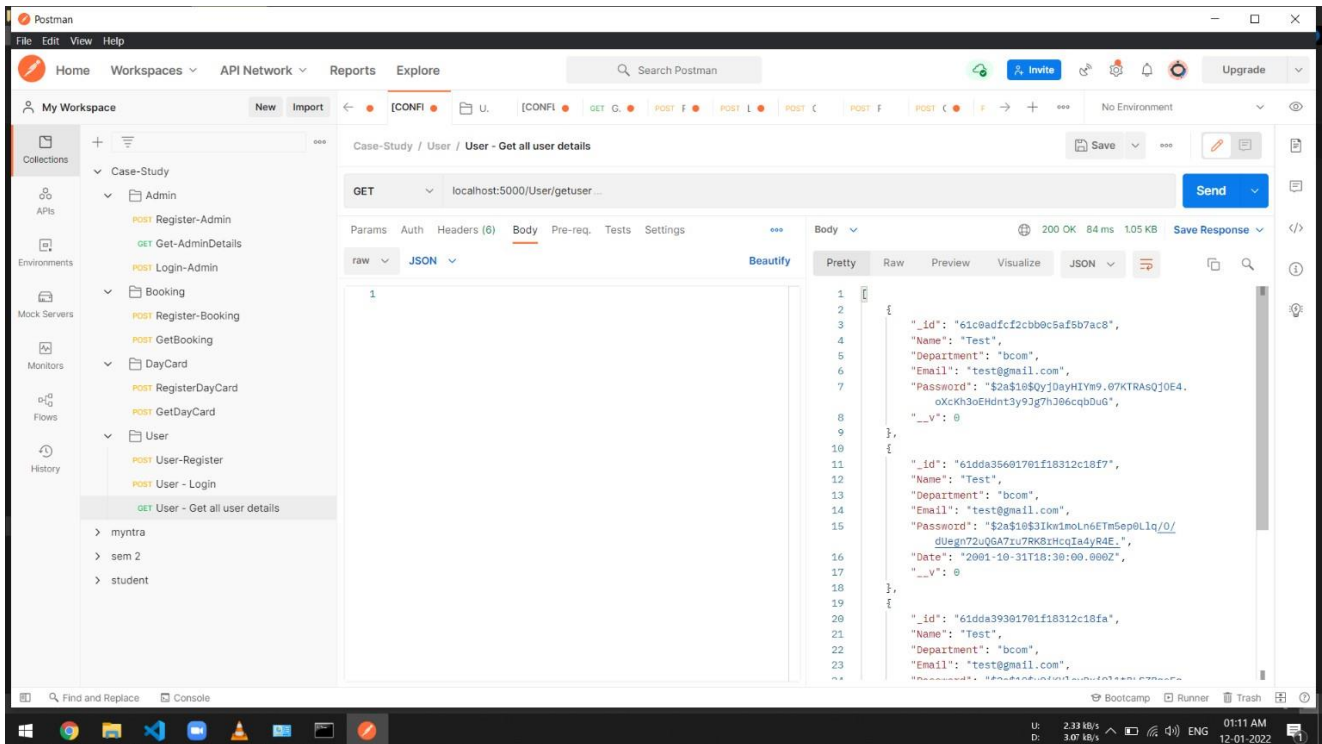
User Manual
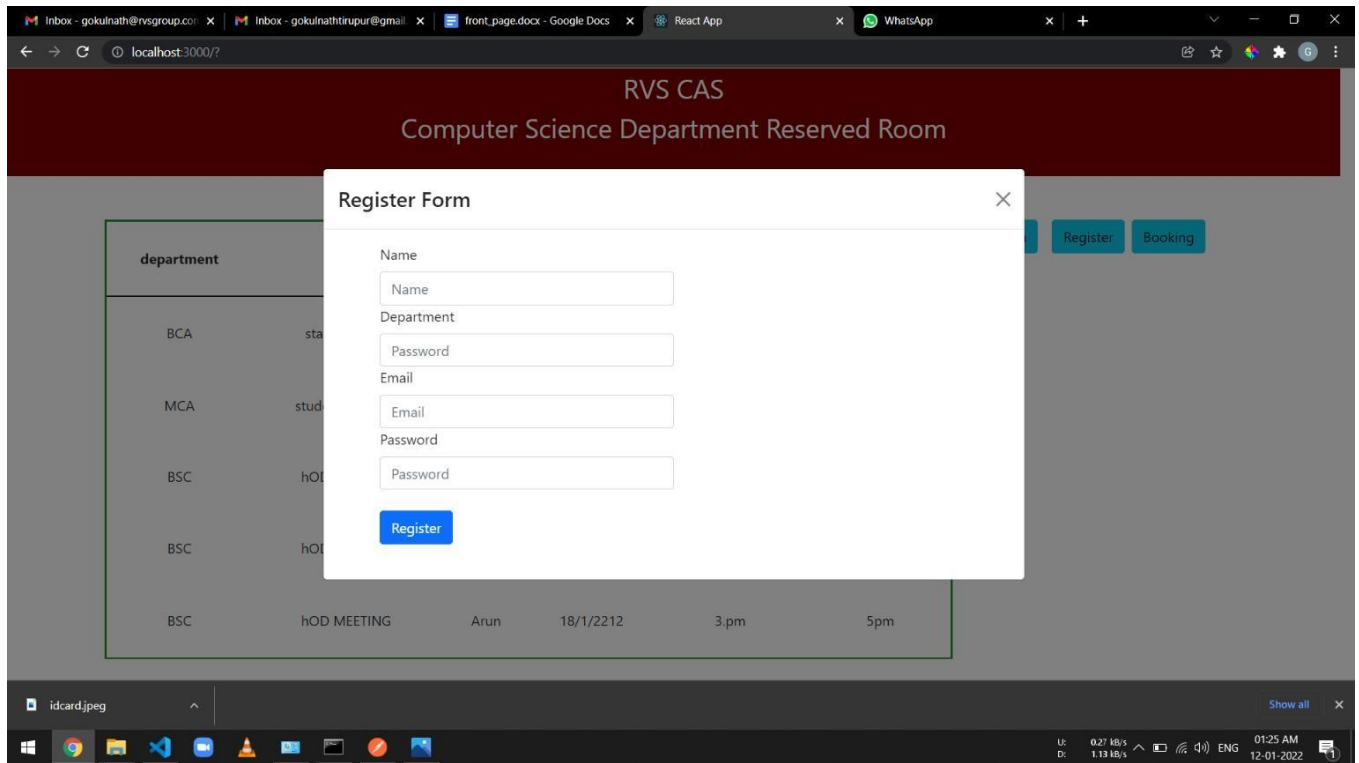
Home Page:
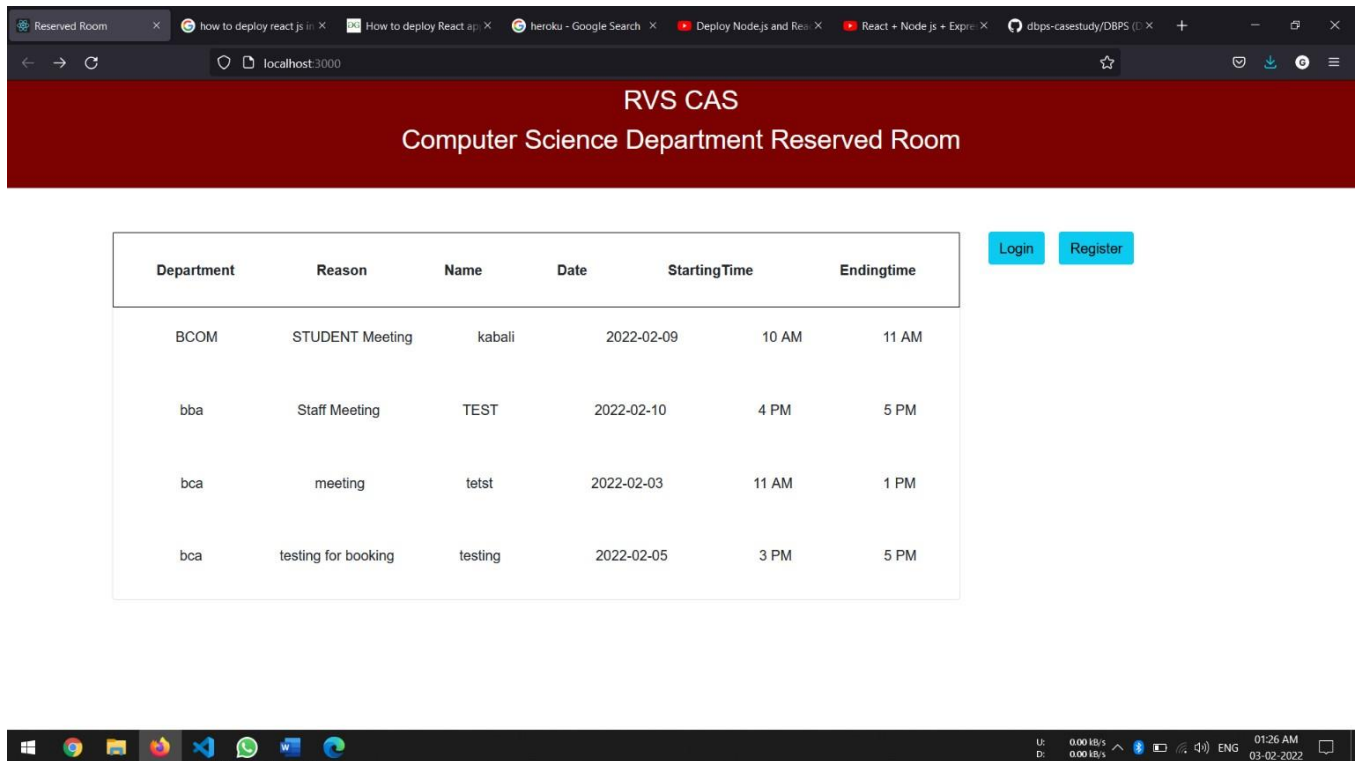
Description:

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

Register Page:

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

# Login Page:
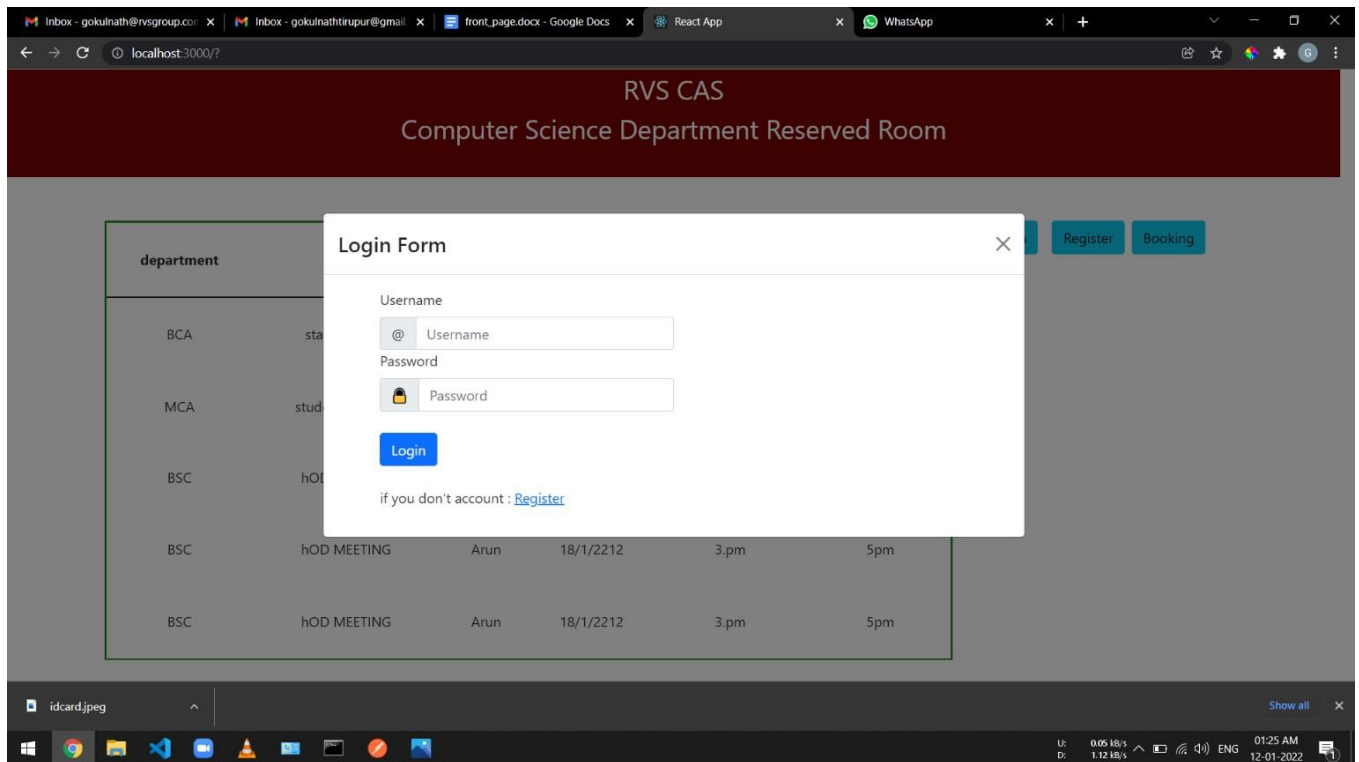
Description:

In Login Users can login with their Username & Password

After Login Page:

Description:

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

Booking Form Page:

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:

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

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