

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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Sulur, Coimbatore – 641 402.

December 2021 – March 2022.

RATHNAVEL SUBRAMANIAM COLLEGE OF ARTS AND SCIENCE

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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

HEAD OF THE DEPARTMENT

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

We express our sincere thanks to our Managing trustee **Dr.K. Senthil Ganesh MBA (USA), MS (UK), Ph.D.**, for providing us with adequate faculty and laboratory resources for completing my project successfully.

We take this as a fine opportunity to express our sincere thanks to **Dr. T. Sivakumar M.Sc., M. Phil., Ph.D., Principal**, Rathnavel Subramaniam College of Arts and Science (Autonomous) for allowing me to undertake this project.

We express our sincere thanks to **Dr.D.Francis Xavier Christopher., M.Sc(CS),M.Phil., Ph.D., Director (Administration), Department of Computer Science** for the help and advice throughout the project.

We express our sincere thanks to **Dr. S. Yamini., M.Sc(CC), M. Phil., Ph.D., Director (Academic), Department of Computer Science** for her valuable guidance and prompt correspondence throughout the curriculum to complete the project.

We express our sincere thanks to **Mrs. C.Grace Padma., MCA., M.Phil., MBA., Head of the Department** for her support and advice throughout the project.

We express our gratitude to **Dr.G.Pandiyan,M.Sc.,M.Phil., B.Ed., Ph.D.**, for his valuable guidance, support, encouragement, and motivation rendered by him throughout this project.

Finally, we express our sincere thanks to all other staff members and my dear friends, and all dear and near for helping me to complete this project.

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:

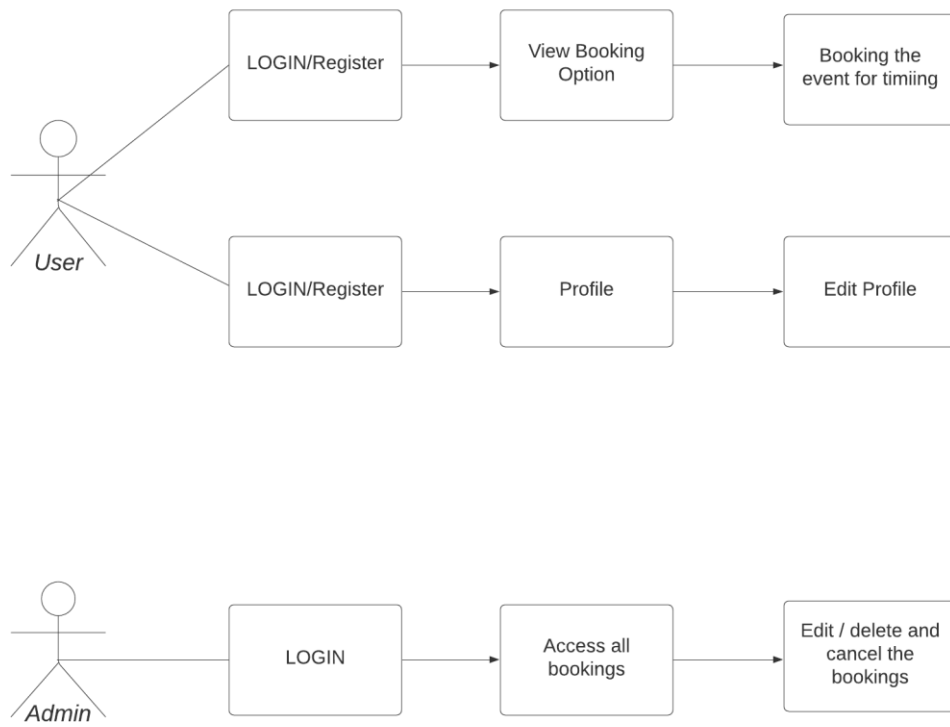
Users can view to book the event for convenience date and time.

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

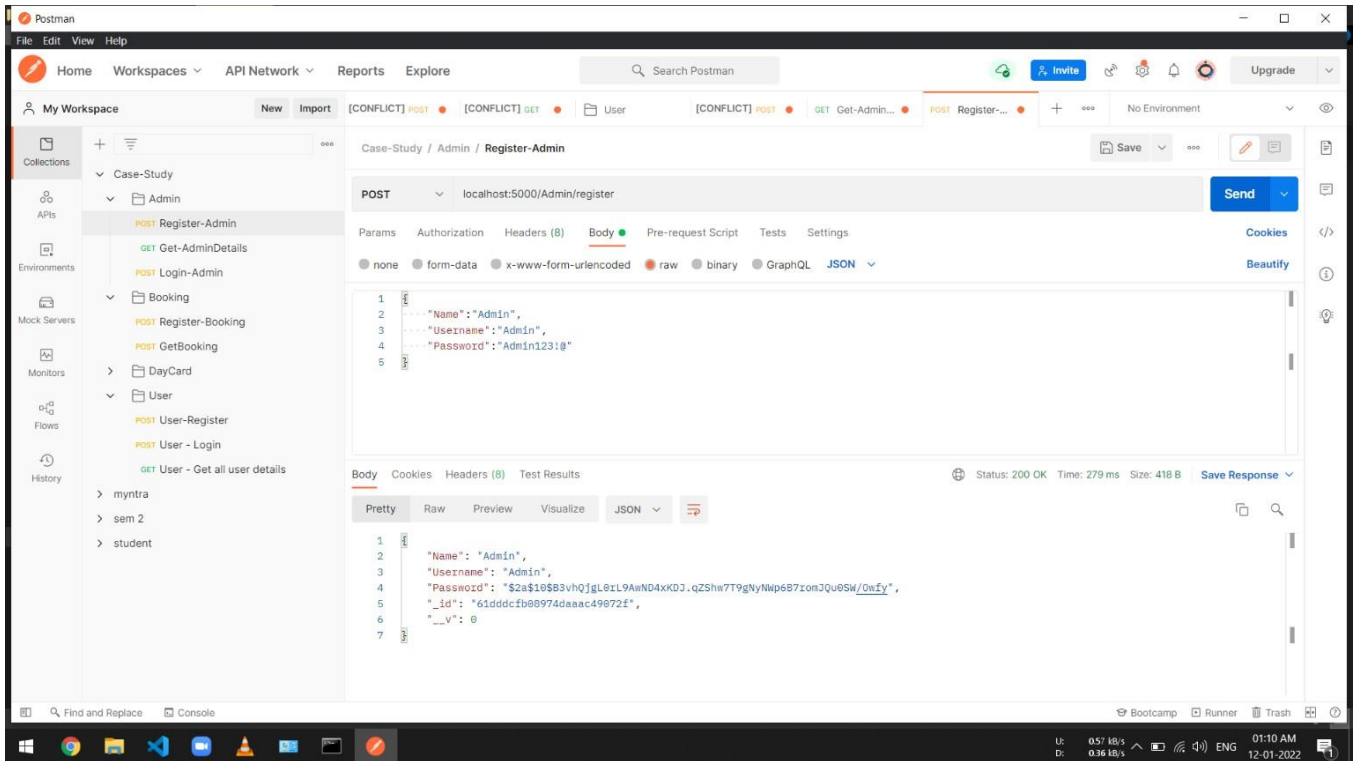
API: /admin/getAdmin

Description: This API can use to Admin details.

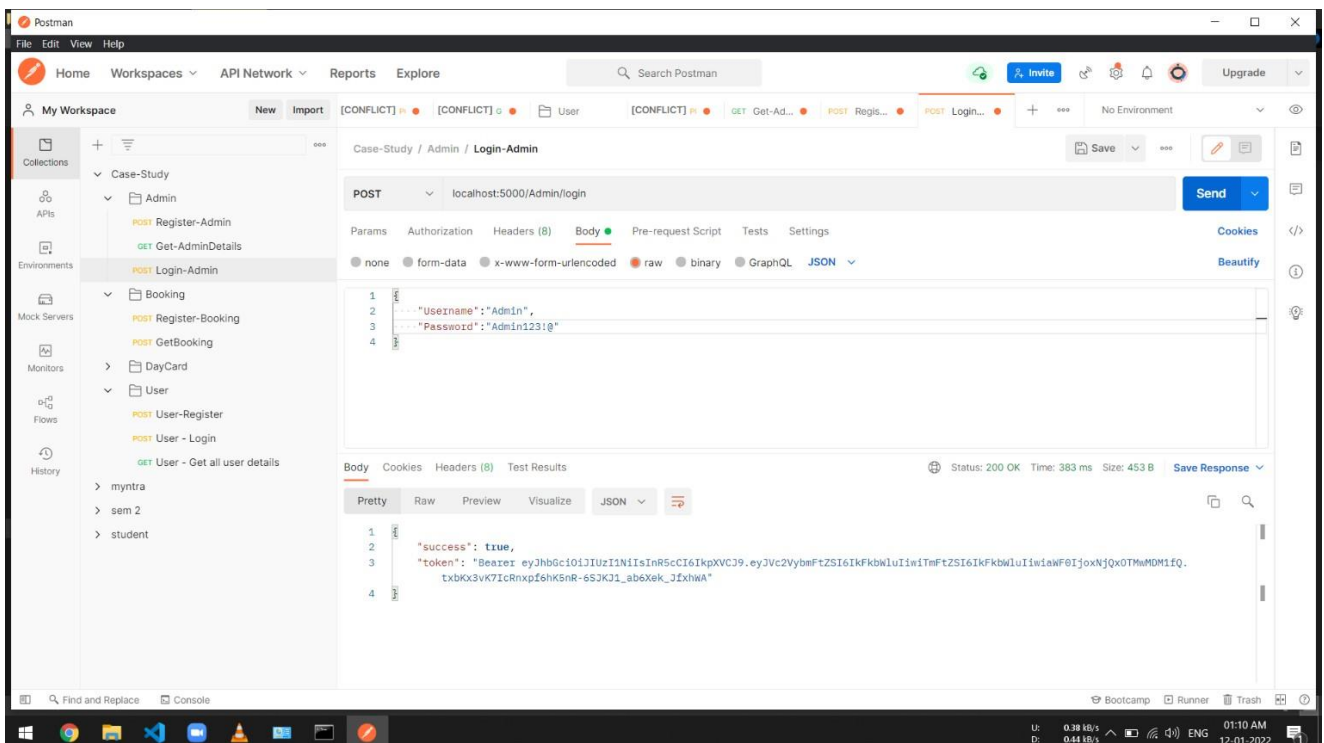
Connect the API with screens

Admin APIs:

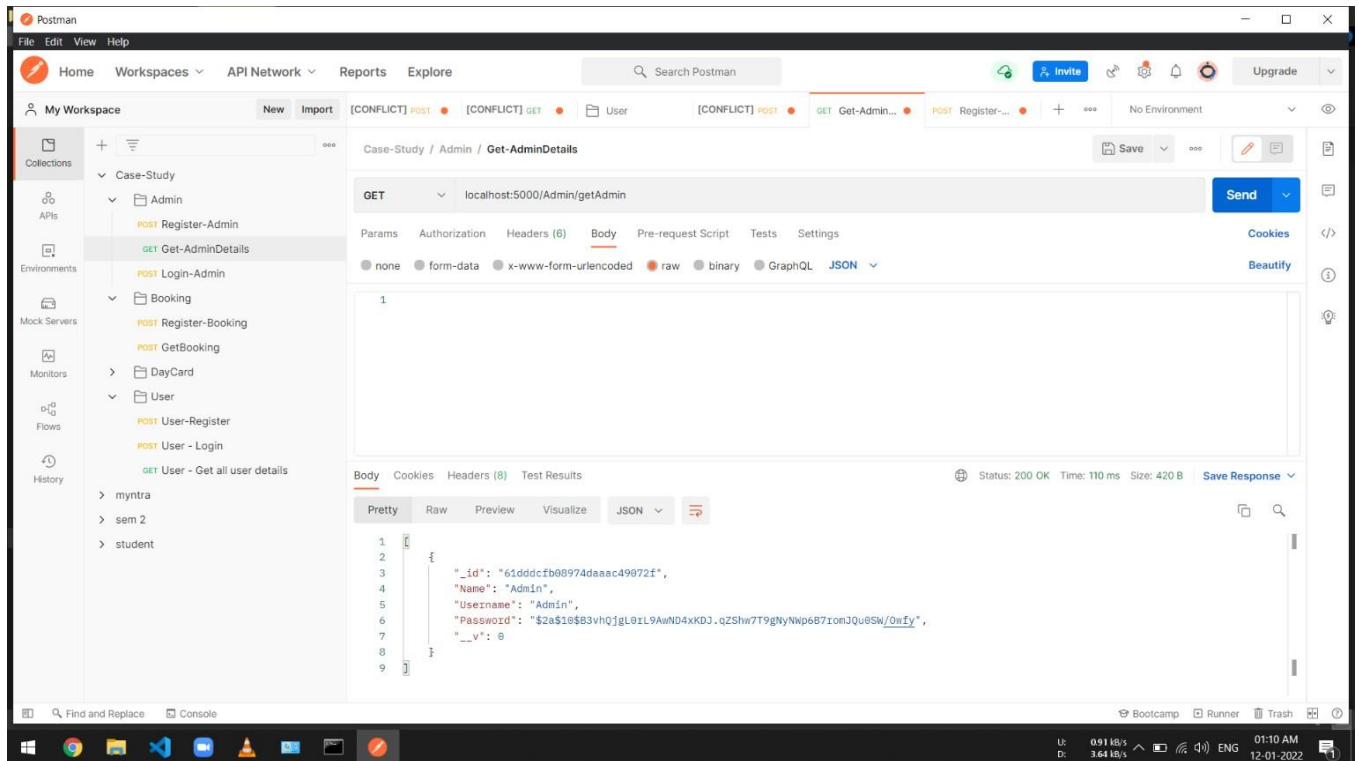
1. Admin Register



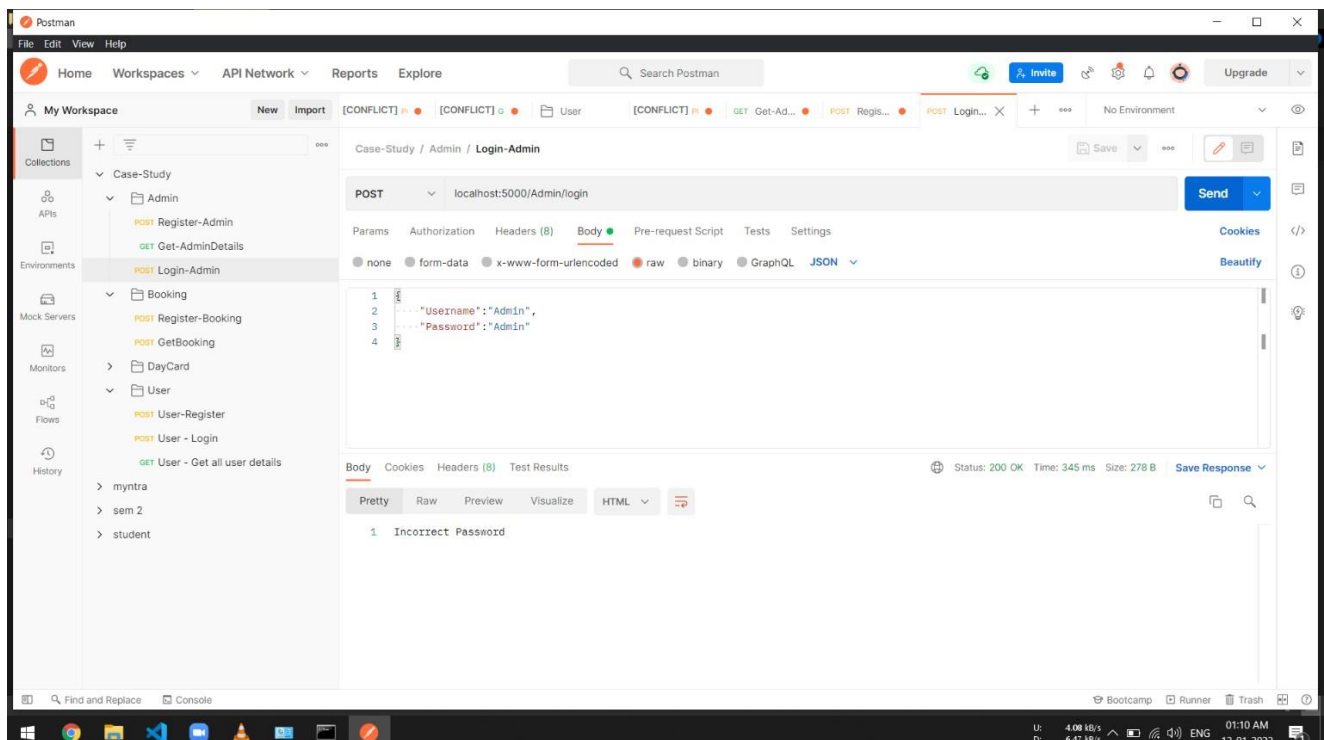
2. Admin Login



3. Admin Details

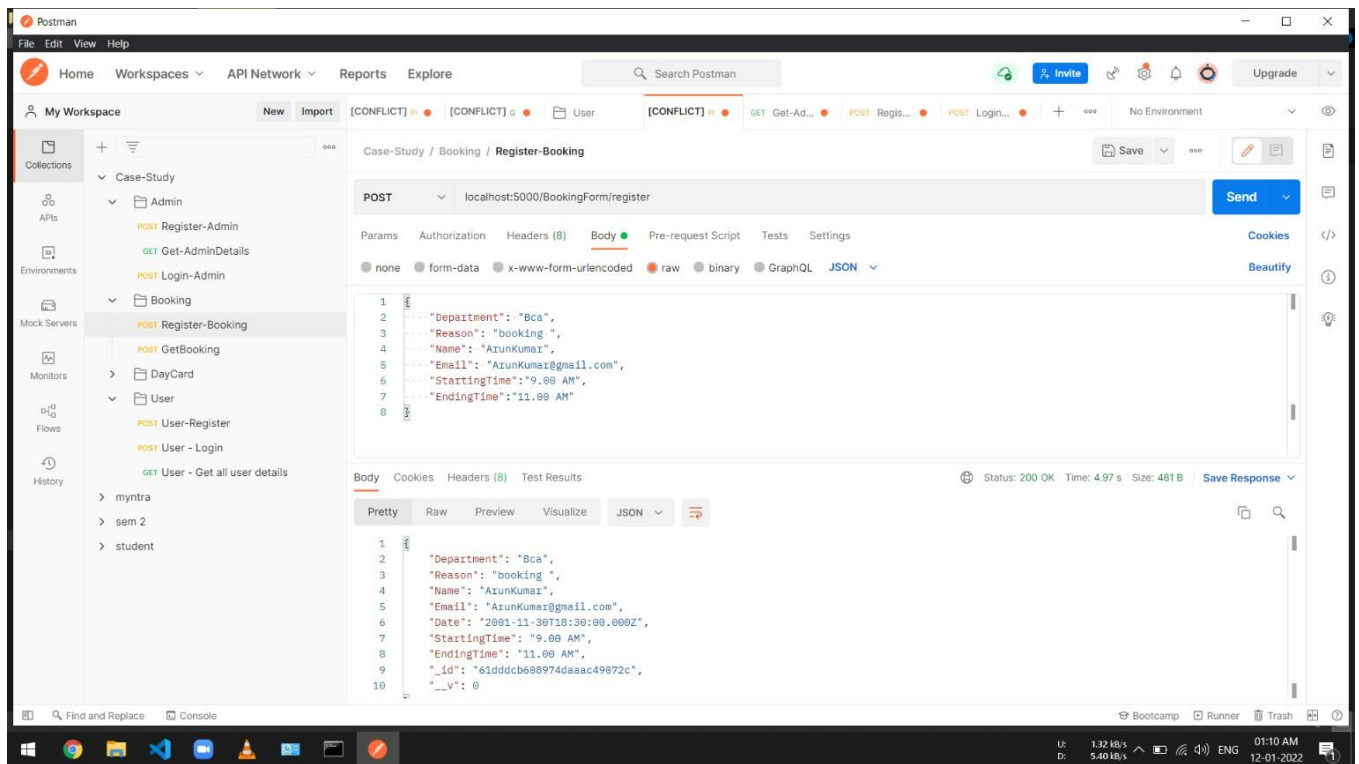


4. Admin Password Error Handling

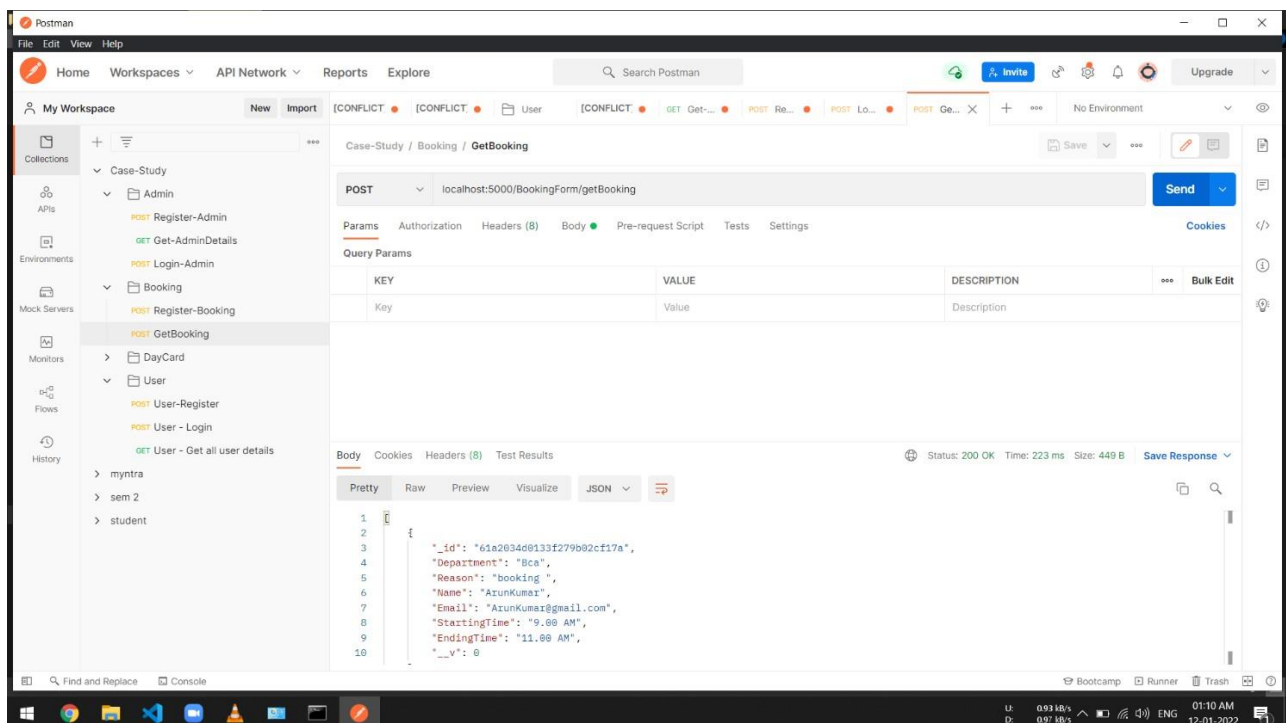


Booking APIs:

1.Booking Register

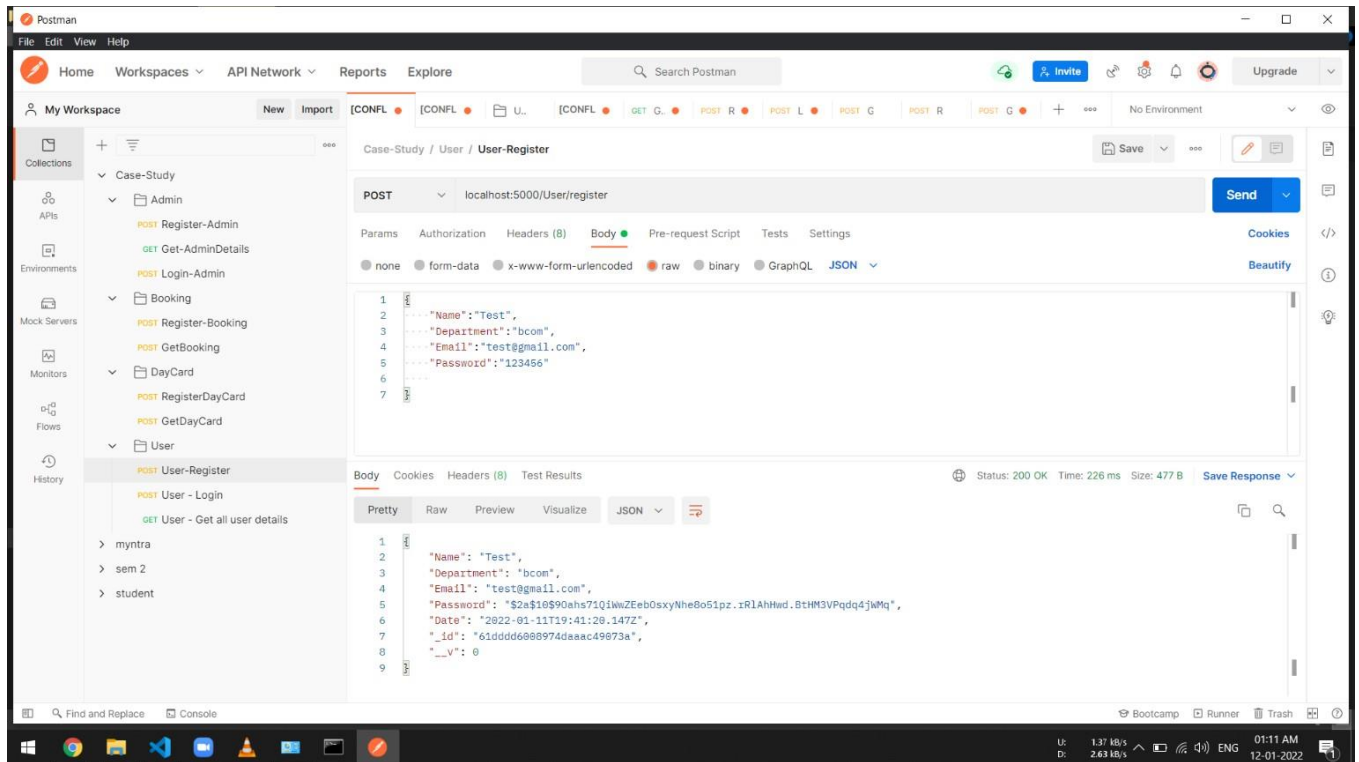


2. Booking Details

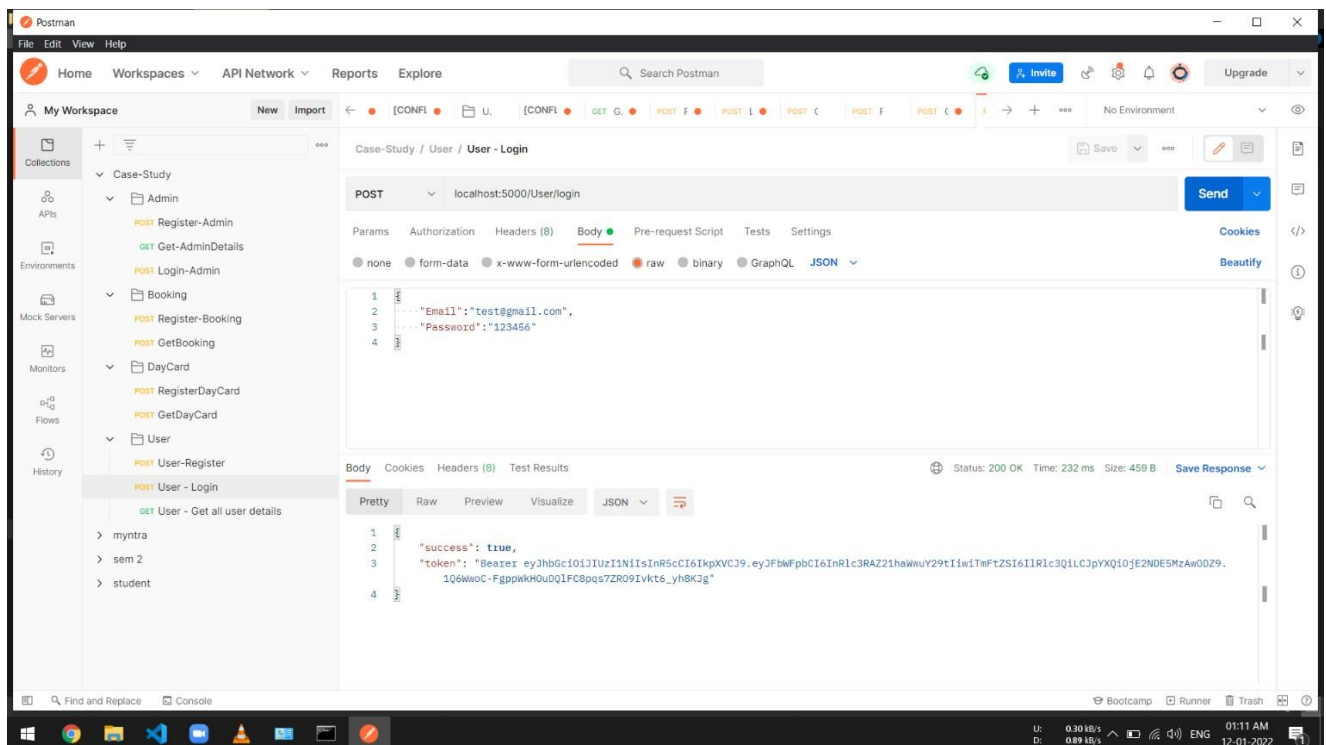


User APIs:

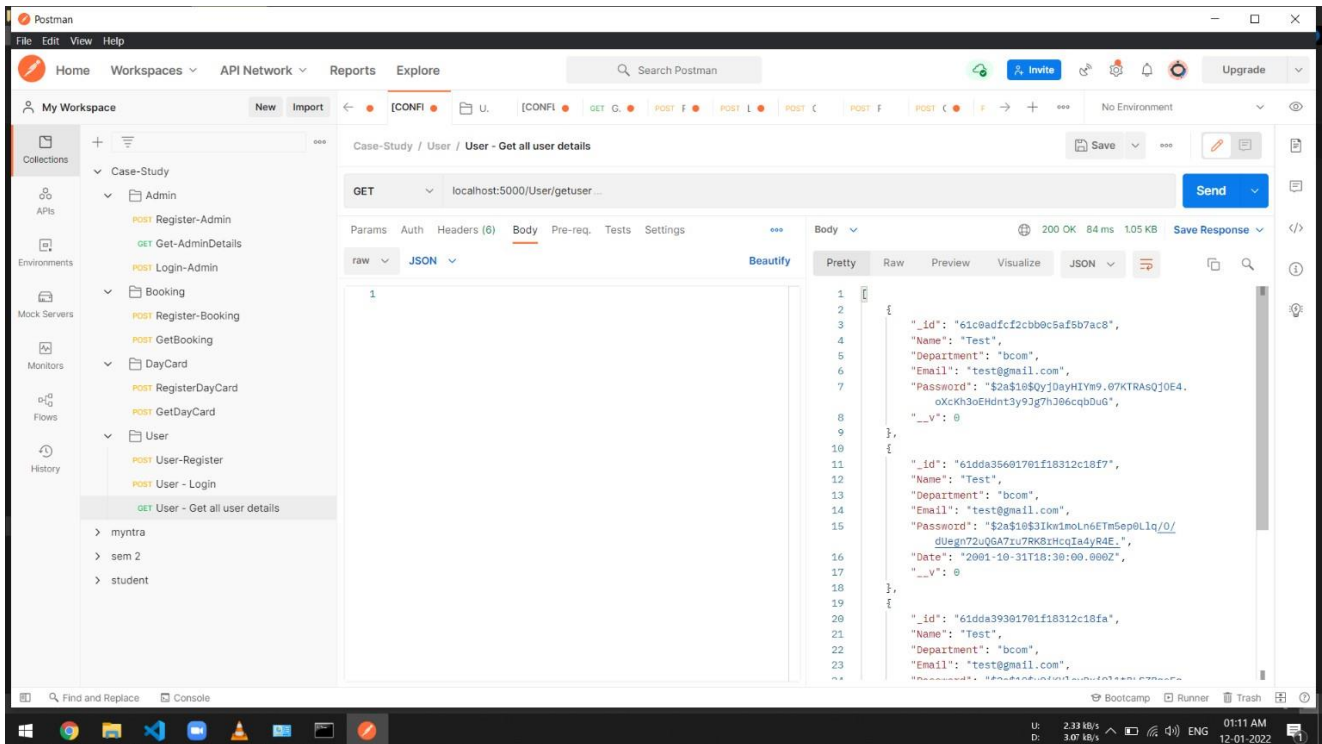
1. User Register



2. User Login Details

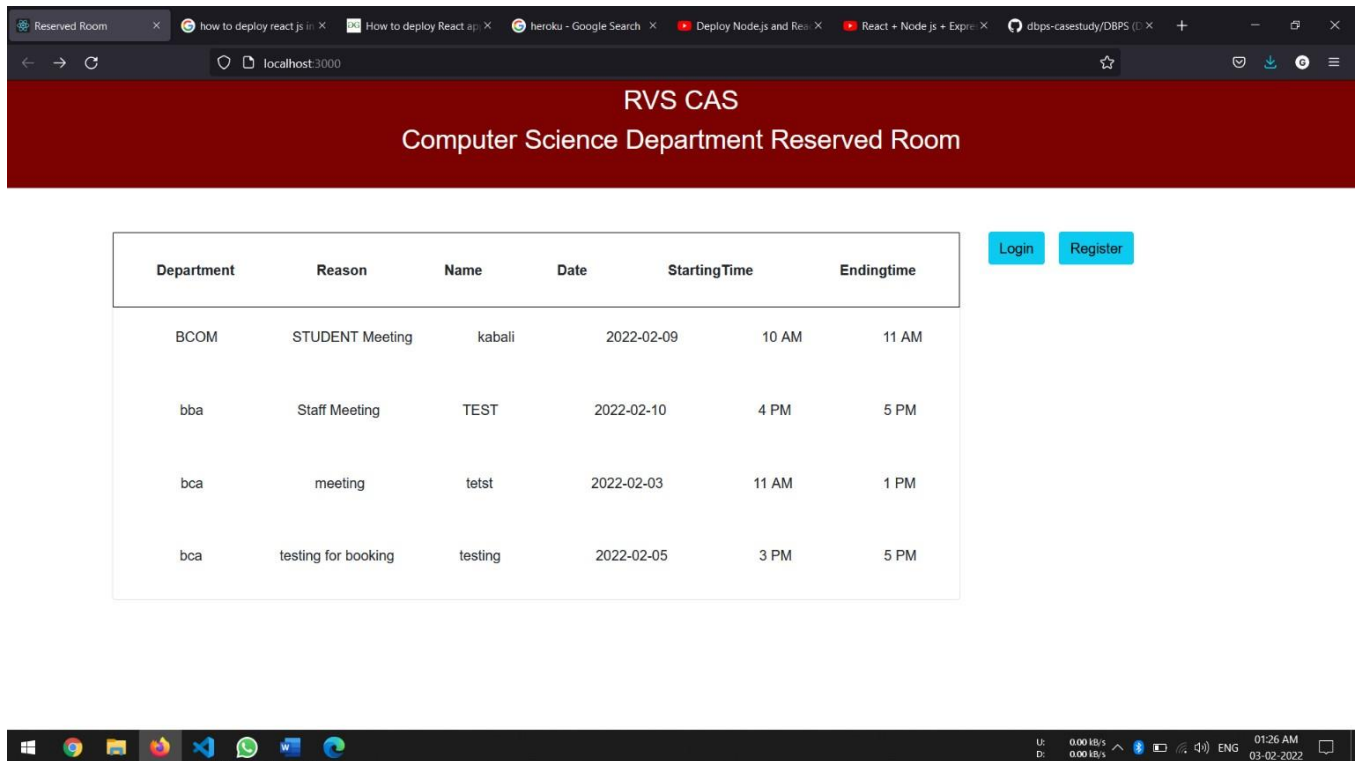


2. User Details



User Manual

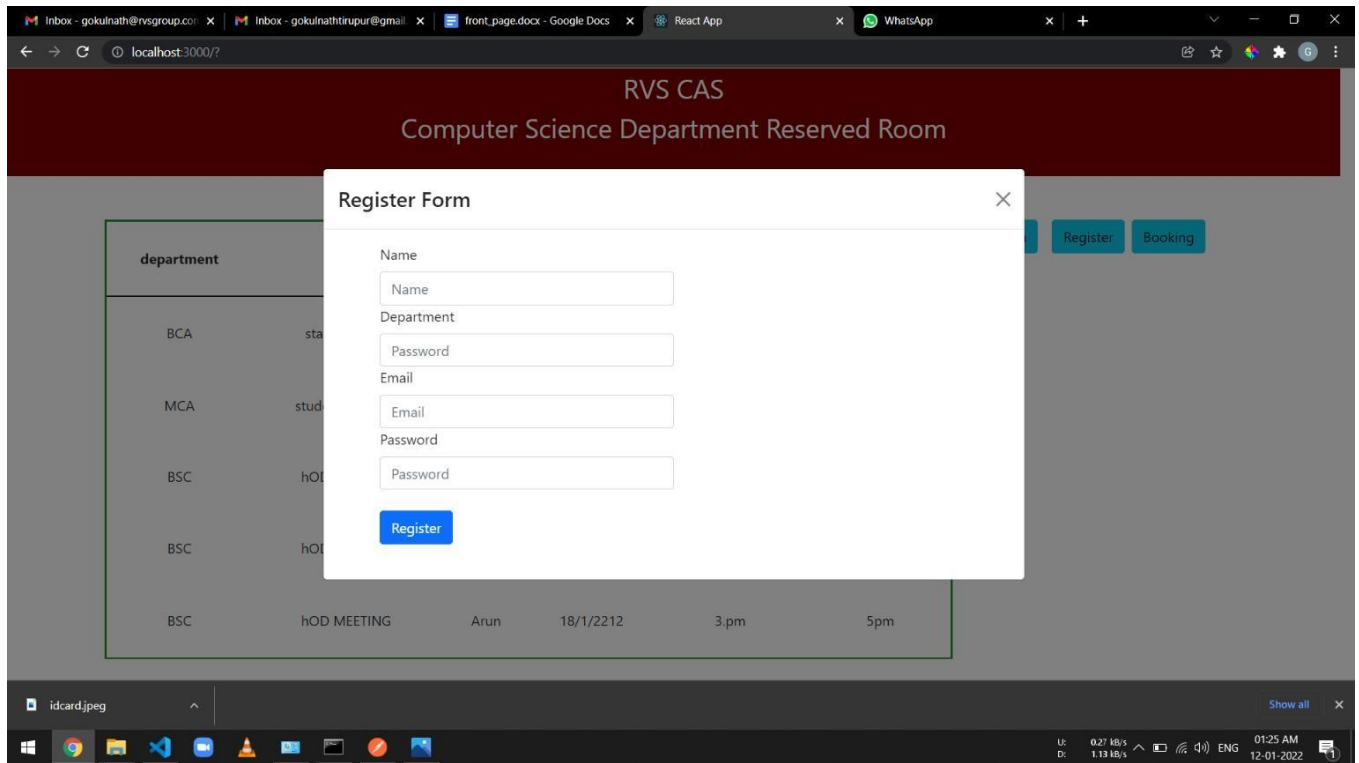
Home Page:



Description:

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

Register Page:



The screenshot shows a web browser window with the URL `localhost:3000/?`. The page title is "RVS CAS" and the subtitle is "Computer Science Department Reserved Room". A modal form titled "Register Form" is displayed in the center. The form contains the following fields:

- Name
- Department
- Password
- Email
- Password

Below the fields is a blue "Register" button. In the background, a table is visible with the following data:

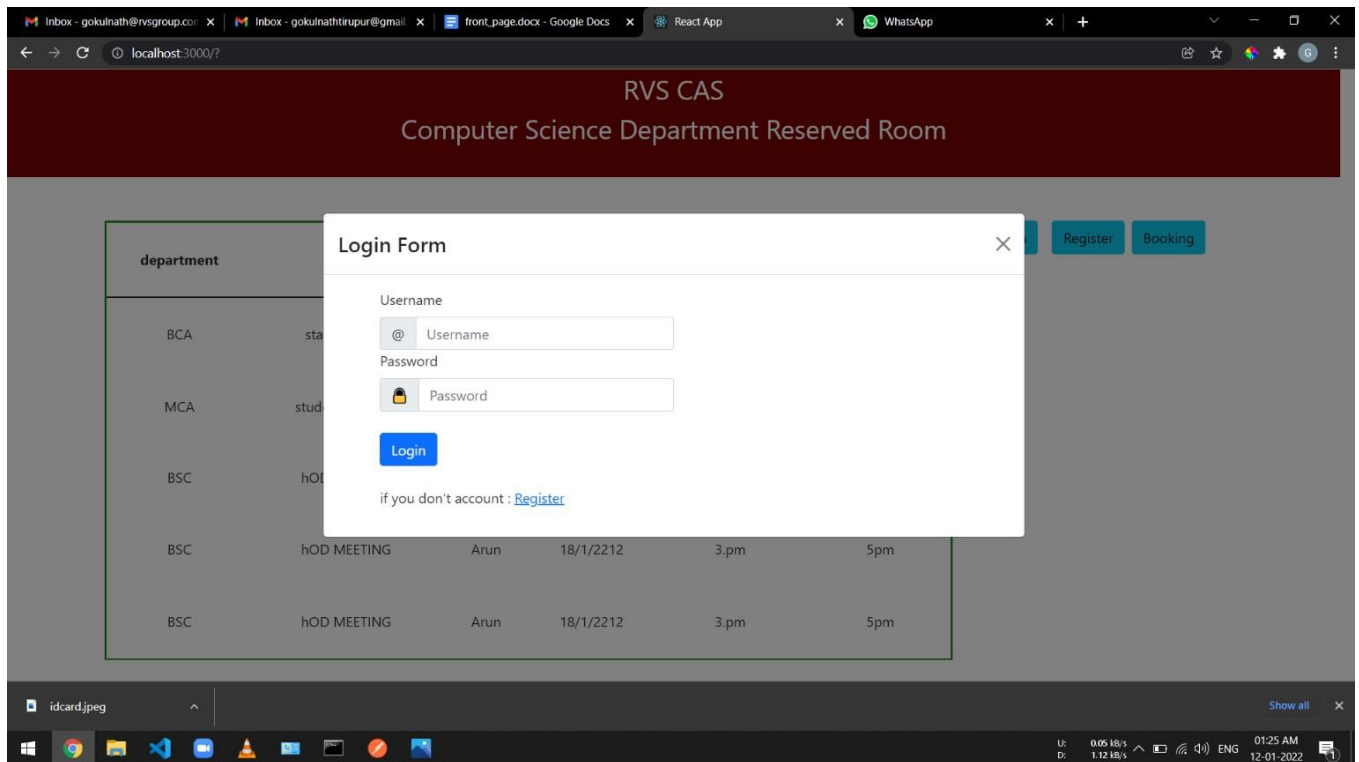
department	
BCA	sta
MCA	stud
BSC	hO
BSC	hO
BSC	hOD MEETING

The bottom of the browser window shows the Windows taskbar with the time 01:25 AM on 12-01-2022.

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:

RVS CAS
Computer Science Department Reserved Room

Username:gokul

[View Profile](#)

[Logout](#) [booking](#)

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	telst	2022-02-03	11 AM	1 PM

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 departments and their corresponding booking details:

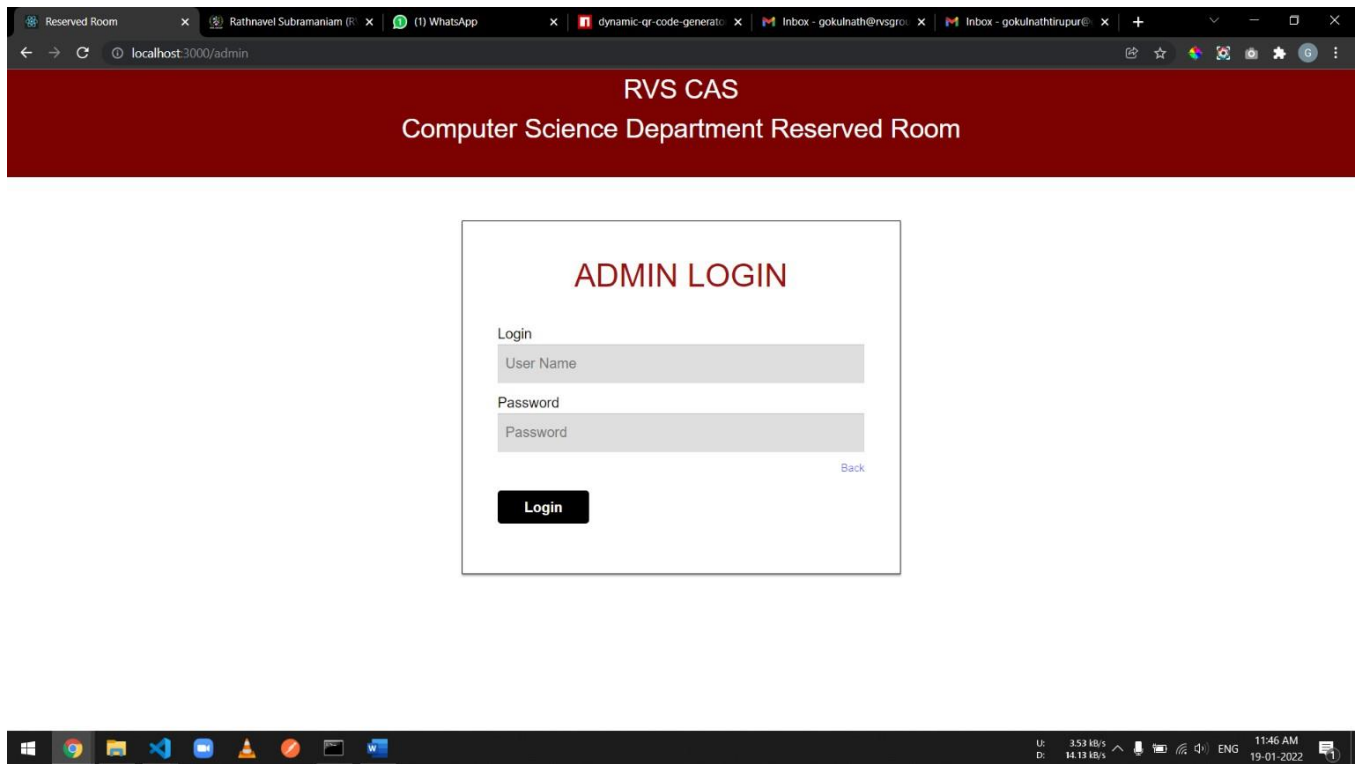
department	booking
BCA	sta
MCA	stud
BSC	hOD
BSC	hOD
BSC	hOD

The bottom of the screenshot shows a Windows taskbar with various application icons and system information.

Description:

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

Admin Login Page:



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/admin'. The page has a dark red header with the text 'RVS CAS' and 'Computer Science Department Reserved Room'. Below the header, there is a white box containing the 'ADMIN LOGIN' form. The form includes a 'Login' label, a 'User Name' input field, a 'Password' input field, a 'Back' link, and a 'Login' button. The browser's taskbar at the bottom shows various application icons and system status information, including the time '11:46 AM' and date '19-01-2022'.

Reserved Room x Rathnavel Subramaniam (R x (1) WhatsApp x dynamic-qr-code-generato x Inbox - gokulnath@rvsgro x Inbox - gokulnathtripur x +

localhost:3000/admin

RVS CAS
Computer Science Department Reserved Room

ADMIN LOGIN

Login

User Name

Password

Password

Back

Login

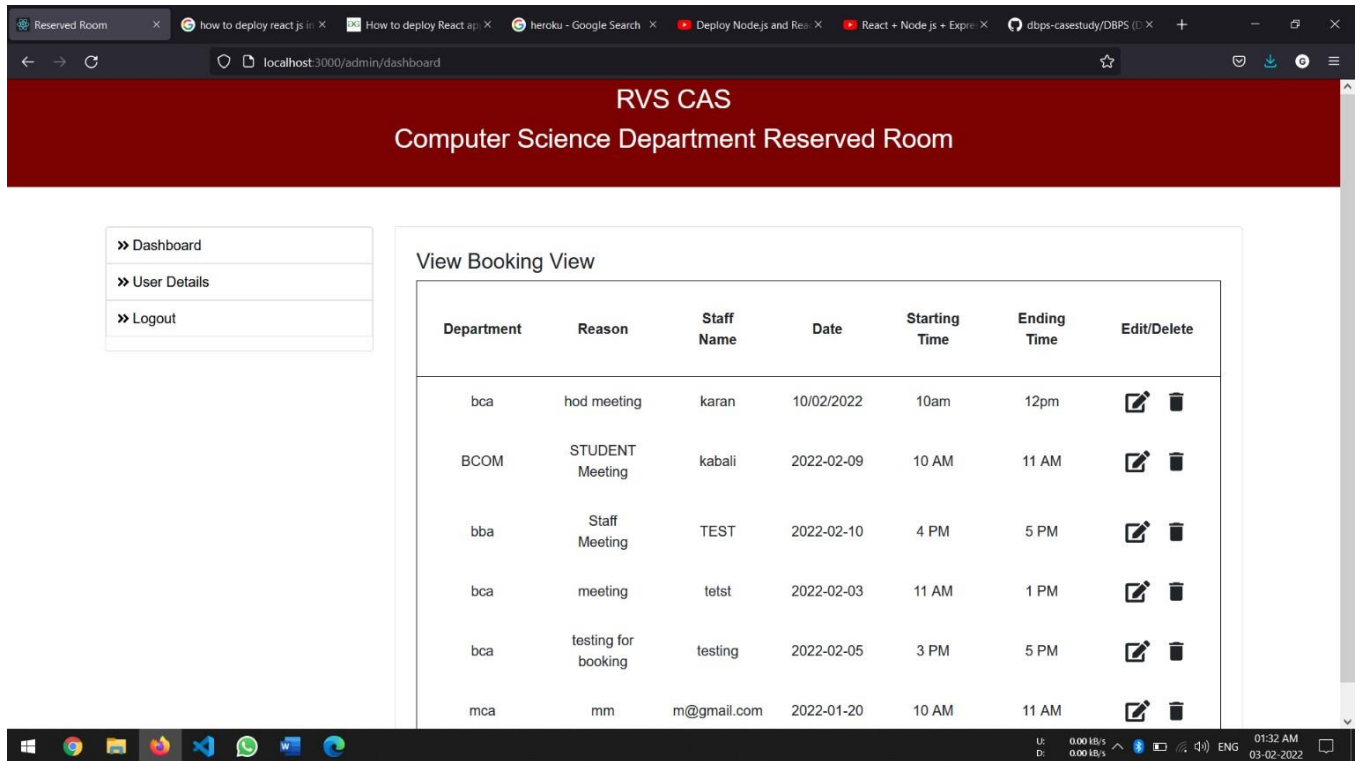
U: 3.53 kB/s
D: 14.13 kB/s

11:46 AM
19-01-2022













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 via a web browser at localhost:3000/admin/dashboard. The interface includes 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 shows a web browser window with the URL `localhost:3000/admin/userdetails`. The page has a dark red header with the text "RVS CAS" and "Computer Science Department Reserved Room". On the left, there is a sidebar menu with three items: "» Dashboard", "» User Details", and "» Logout". The main content area is titled "Register User Details" and contains a table with three columns: "Department", "Staff Name", and "Email". The table lists three users: gokul (mca), rahul (mca), and Kabali (MCA).

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