A PROJECT ON
Online Accommodation Portal

SUBMITTED IN

PARTIAL FULFILLMENT OF THE REQUIREMENT

FOR THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM CDAC

SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY
Hinjewadi,Pune

SUBMITTED BY:

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Vishal Patil

UNDER THE GUIDENCE OF:

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Faculty Member

Sunbeam Institute of Information Technology, Pune

CERTIFICATE

This is to certify that the project work under the title 'Web Portal for Student and teacher' is done by Aniket Dhole, Atharv Deshmukh, Vijay Patil, Vishal Patil in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

Mrs. Pooja Jaiswal — **Project Guide**

Mr. Yogesh Kolhe — **Course Co-ordinator**

Date:30/08/2023

ACKNOWLEDGEMENT

A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards Mr. Nitin Kudale (Center Coordinator, SIIT, Pune) and Mr. Yogesh Kolhe (Course Coordinator, SIIT ,Pune) .

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

Last but not the least we thank the entire faculty and the staff members of Sunbeam Institute of Information Technology, Pune for their support.

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Vishal Patil

PDAC Mar 23 Batch,

SIIT Pune

1. INTRODUCTION TO PROJECT

The web based "Online Accommodation Portal" project is an attempt to stimulate the basic concepts of property booking system. The system enables the customer to do the things such as search for accommodation in their respective cities on a specified date, for required period of time.

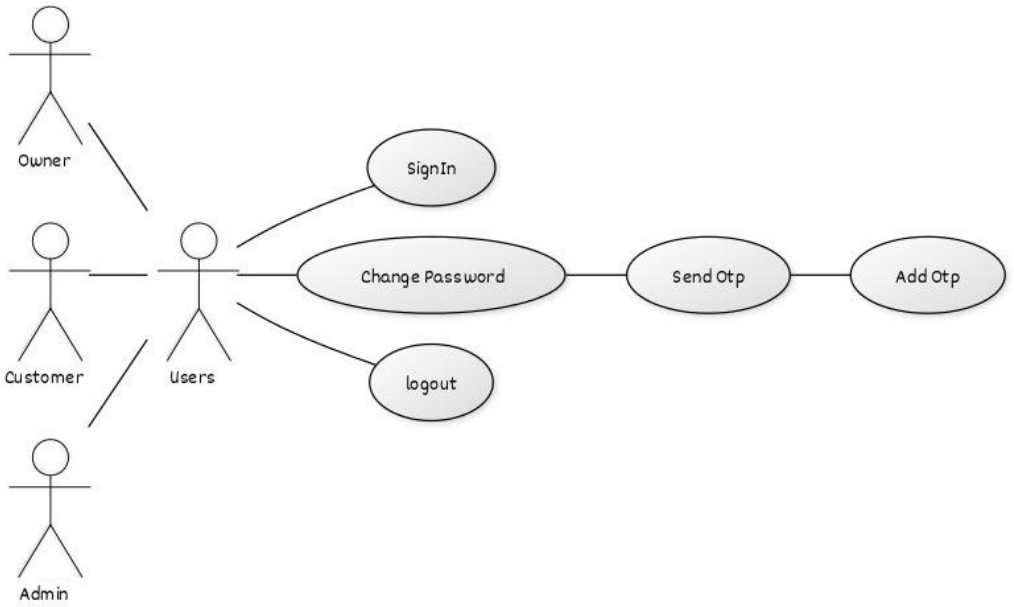
The system provides you Quick Search facility that provides you details about property without login . But if user want to book property then it must require login into your account.

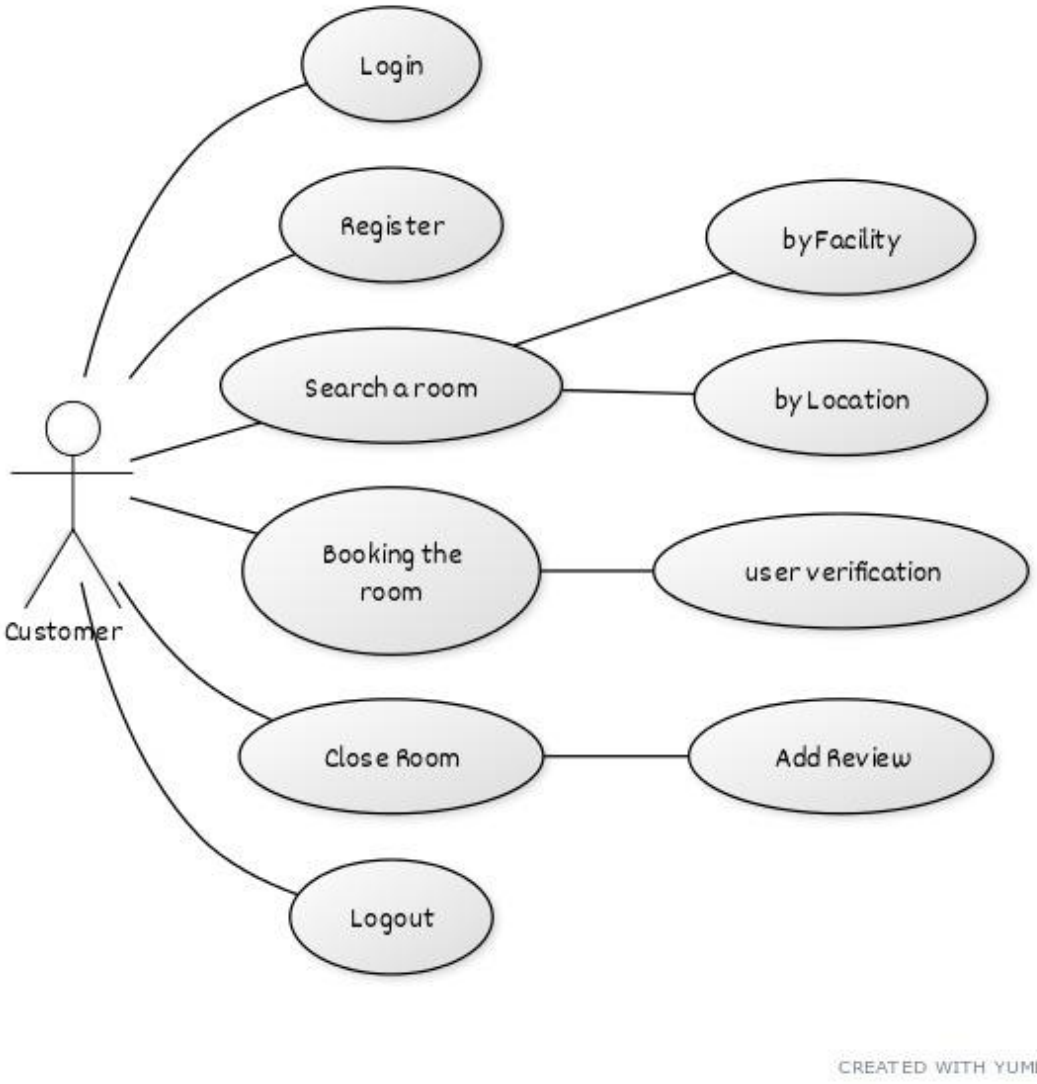
The system allows the customer user to search for property that are available in different cities, for a particular tenure. The system displays all the property details such as rent, property location, available status, images, facilities available, etc.

To book a property the system asks the customer to enter his details such as name, address, city, state, credit card number and contact number. Then it checks the validity of card and book the property and update the property status in property database and user database.

2.REQUIREMENTS

2.1 USE CASE DIAGRAMS





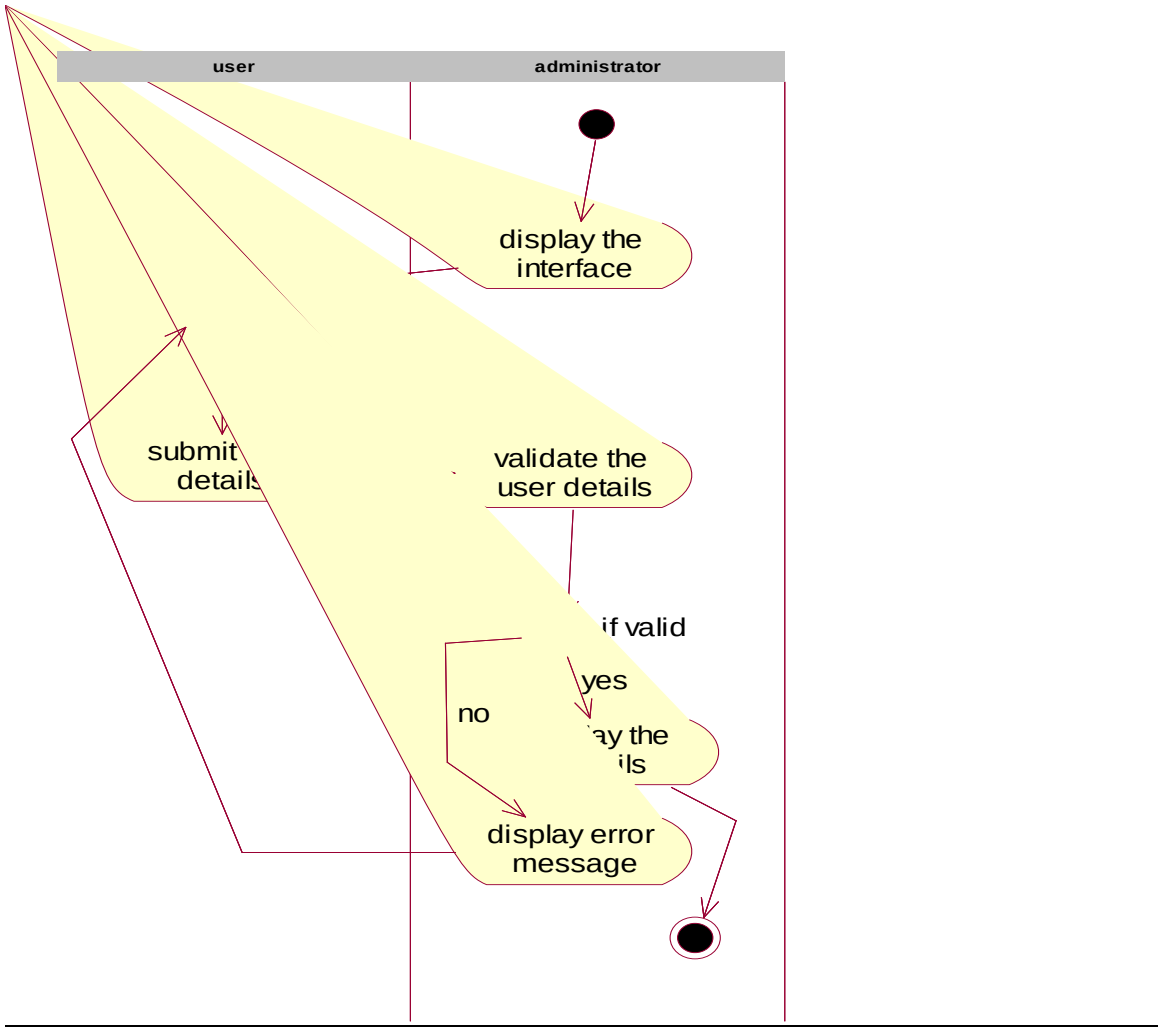
2.1 User Account

A user who has registered have been given a user id and a password. This 'personal information' would be henceforth referred to as 'profile'. Such a user with a profile in DB-user shall be called a 'registered user'. A registered user will be able to check the availability of property as well as rent a property by logging into the system.

A new user, on the other hand, would either have to register himself with the system by providing personal information.

2.2 Registration and creation of user profile

The system shall require a user to register, in order to carry out any transactions with it except for checking the availability of property. It will ask the user for the following information at the least – a user id, a password, first name, last name, address, phone number, email address, sex, etc.



2.3 Quick Search

Here we provided Quick Search facility for any user to search property without login into account .This will provide user an option for searching property and comparing their prices of all available options.

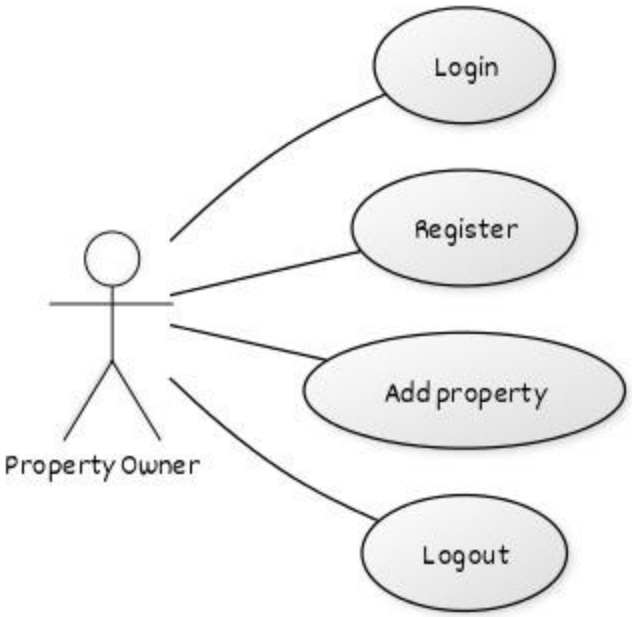
After logging in a user (either a registered user or a guest), the system shall request him to enter the following details – location city and property facility. Location is a generic term and refers to a city or town as the case may be.

After the location cities are ascertained, the system shall now access the property table in database, and checks if there is a direct operational service.

The system shall now ask the user to enter the location, facilities desired etc. This choice shall be made by the user through a drop down menu indicating all the possible combinations of choices.

The system queries the property table to check which of the property are available for booking . The system displays the results in a suitable form (a tabular form) with the following information depicted – for each propertyId , location, description, rent, etc.

The system will then ask for personal information of all customer i.e. one registered user can book for multiple users. So all users will be added in the table.



2.4 Property Owner role

Property owner himself can register as a user by providing his personal details like Name, email, password, sex, city, etc. After registration owner is provided with email and password as login credentials into the system

In the User table of database owner is provided with parameter propertyId which is initialized null and will be later updated after he add the property to make it list on system.

To add property owner must provide full details of property which includes fields or parameter like location, type of property(i.e. Hotel, PG, Shop) email, property description, rent, no of rooms available etc.

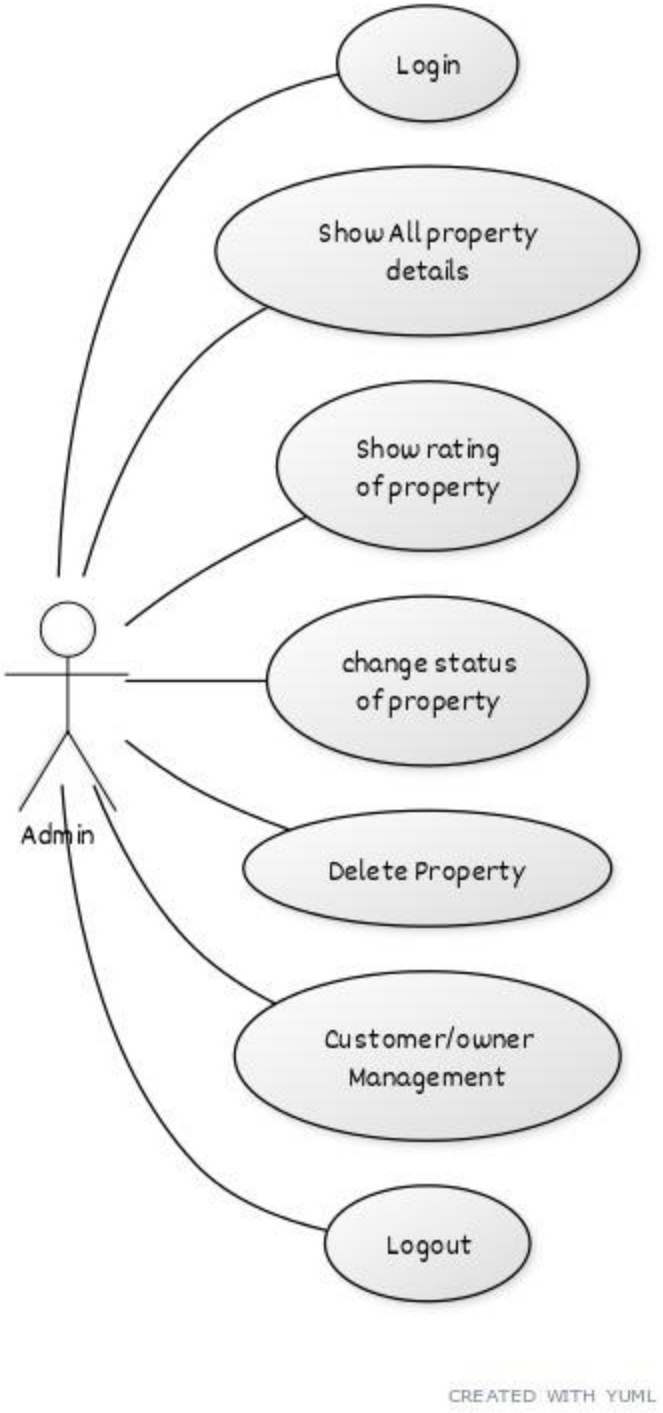
The system then fires query in property table if provided information is right. The status of the property is “not-mentioned” initially. Which has to be updated by admin further.

The admin is able to retrieve information of all property registered and will be provided with two options which are “Approve” and “Reject”. After checking the property and making sure that it doesn’t violates terms and condition of our system Admin makes choices.

The rejected property can further deleted by admin and removed from property table. Whereas approved property are listed on system by making it available to view by all users i.e. owner, customer and admin himself.

2.5 View Booking History

The system shall allow a user to view all information about his previous bookings. It accesses Booking table and retrieves the details of the customer and his booked property and presents them to the user in a tabular format.



Admin should be able to login ,add location and facilities, approved added property status, Delete property and see user Information according to user Id.

2.2 NON FUNCTIONAL REQUIREMENTS

2.2.1 Interface

Go to Appendix B for user interfaces

2.2.2 Performance

- **Number of Concurrent Users:**

ARS shall be able to handle at least 1000 transactions/inquiries per

second

- **Booking of property:**

  The system is susceptible to any temporary server failure since it uses the strong feature of Struts 2 and Hibernate. Hence the examination will be continued even if the sever gets disconnected in between the examination.

2.2.3 Constraint

ARS shall be able to handle at least 1000 transactions/inquiries per second

2.2.4 Other Requirements:

- **Hardware Interfaces**

The SPMS is expected to function on Intel PIII 900 MHz Processor equivalent or above, 128 MB RAM, 20 GB HDD.

- **Software Interfaces**

The SPMS shall work on MS Windows operating systems family (MS Windows 98, MS Windows NT Workstation, MS Windows 2000, MS Windows XP). It configures to work with Oracle database. This System works on Apache Tomcat server. It uses browser IE 5.0 & above. It uses IIS 5.0 server.

3. DESIGN

3.1 Database Design

The following table structures depict the database design.

Table 1: User

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
3	id	Number	4	0
0	firstName	Varchar	255	1
0	lastName	Varchar	255	1
0	age	Number	255	1
0	sex	Enum	255	1
0	emailId	Varchar	255	1
0	contact	Varchar	255	1
0	street	Varchar	255	1
0	city	Varchar	255	1
0	pincode	Varchar	255	1
0	role	Enum	255	1
0	Password	Varchar	255	1
0	propertyId	Number	8	1

Table 2: Booking

3	id	Number	4	0
0	bookingId	Varchar	255	1
0	userId	Number	4	0
1	checkIn	Date	255	1
1	checkout	Date	255	1
1	status	Varchar	255	1
0	hotelId	Number	4	0
0	totalDay	Number	4	0
0	totalRoom	Number	4	0
0	paymentStatus	Varchar	255	1

Table 3: HotelFacility

3	id	Number	4	0
0	hotelId	Number	4	0
0	facilityId	Number	4	0

Table 4: HotelReview

3	id	Number	4	0
0	userId	Number	4	0
0	hotelId	Number	4	0
0	star	Number	4	0
0	Review	Varchar	255	1

Table 5: Location

3	id	Number	4	0
1	City	Varchar	255	1
0	Description	Varchar	255	1

Table 6:Facility

3	id	Number	4	0
0	name	Varchar	255	1
0	Description	Varchar	255	1

Table 7:FacilityHotels

3	facilityId	Number	4	0
0	hotelsId	Number	4	0

Table 8:LocationHotels

3	locationId	Number	4	0
0	hotelsId	Number	4	0

E-R Diagram,Dataflow diagram and Class Diagram:

Go to Appendix A

4. CODING STANDARDS IMPLEMENTED

Naming and Capitalization

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	Case	Examples	Additional Notes
Class	Pascal	User, Property, PropertyReview, Location	Class names should be based on "objects" or "real things" and should generally be **nouns**. No '_' signs allowed. Do not use type prefixes like 'C' for class.
Method	Camel	getCity, setFacility	Methods should use **verbs** or verb phrases.
Parameter	Camel	propertyId, firstName	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	IUserService	Do not use the '_' sign

Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.

- End the comment with a period.
- Explain the code; do not repeat it.

5. TEST REPORT

Another group called Linux did the testing and the report of the testing is given hereunder.

GENERAL TESTING:

SR-NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	Register Page	Redirected to Next page	OK	User registered succesfully
2	Login Page	Pop-up will come	Ok	Please enter valid credentials.
3	Reset login	Only users password will be reseted	Ok	Nothing
4	search property	Gives all property details	Ok	Nothing
5	Book property	All the fields should be filled for submission	Ok	Nothing
6	Checking login or not	User is logged in or not	Ok	Nothing
7	Add property details for booking	Add property information to respective location	Ok	Property added successfully
8	Goto home page	Retrieving all property of all locations	Ok	Nothing
9	Add information in booking table	Save this all data into booking table	Ok	Nothing
10	Transaction	On back it should be reverted to previous page	Ok	Nothing
11	View transaction done	It shows you all transactions done previously	Ok	Nothing

12	Logout	It will logout from user profile.	Ok	Nothing
	STATIC TESTING			

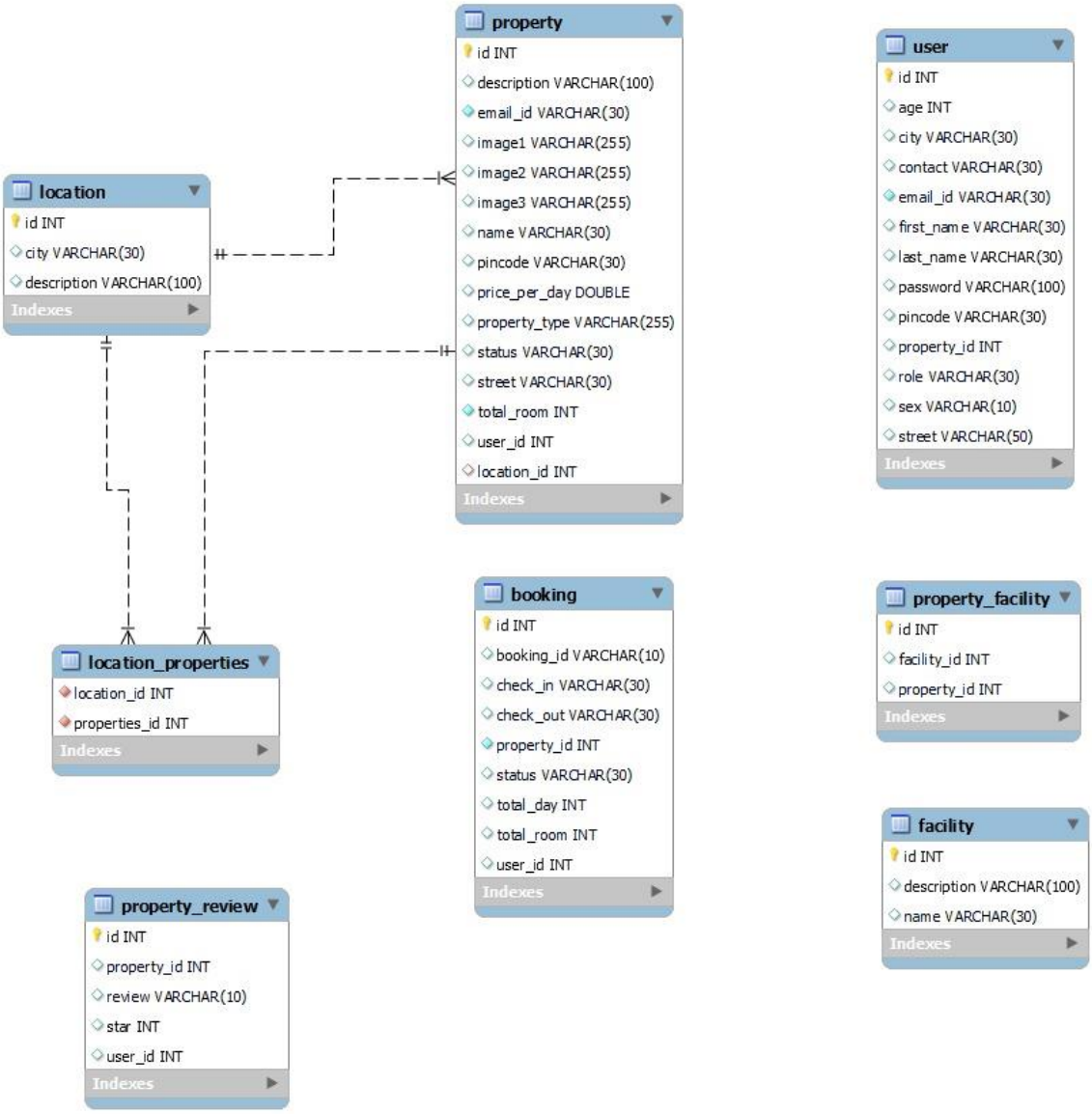
6. PROJECT MANAGEMENT RELATED STATISTICS

DATE	WORK PERFORMED	*SLC Phase*	Additional Notes
August 12, 2023	Project Allotment and User Requirements Gathering	Feasibility Study	We played role of client by our self to know his requirements.
August 14, 2023	Initial SRS Document Validation And Team Structure Decided	Requirement Analysis (Elicitation)	The initial SRS was presented to the client to understand his requirements better
August 15, 2023	Designing the use-cases, Class Diagram, Collaboration Diagram, E-R Diagram and User Interfaces	Requirement Analysis & Design Phase	Database Design completed
August 16, 2023	Business Logic Component design Started	Design Phase	----------
August 17, 2023	Coding Phase Started	Coding Phase	30% of Class Library implemented.
August 18, 2023	Implementation of Web Application and Window Application Started	Coding Phase	Class Library Development going on.
August 19, 2023	Phase 2A review done	Review Phase	Required Changes mentioned by reviewer
August 21, 2023	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	Class Library Modified as per the need.

August 22, 2023	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	--
August 23, 2023	After Ensuring Proper Functioning the Required Validations were Implemented	Coding Phase and Unit Testing	Module Integration was done by the Project Manager
August 24, 2023	Front End design Resumed	Design Phase	--
August 25, 2023	Phase 2B review		--
August 28, 2023	The Project was Submitted to Other Project Leader of Other Project Group For Testing	Testing Phase (Acceptance Testing)	The Project of Other Team was Taken up by the Team for Testing
August 29, 2023	The Errors Found were Removed	Debugging	The Project was ready
August 30, 2023	Documentation required for submission are made	Documentation	The Project was ready for final submission
August 31, 2023	Final Submission of Project		

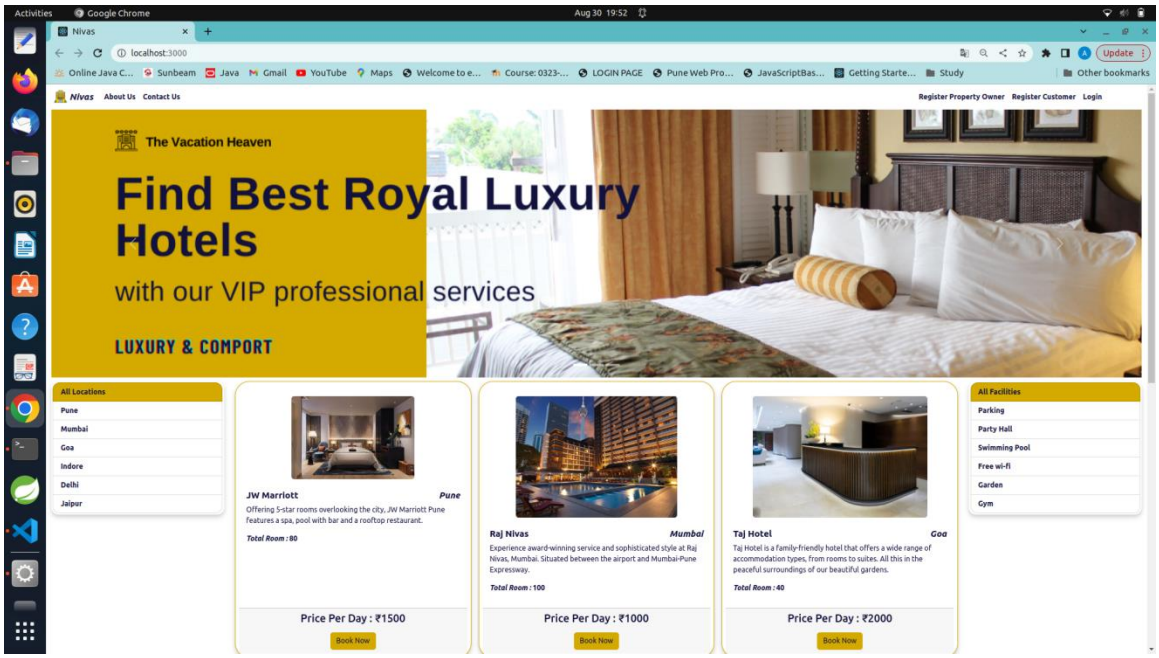
Appendix A

Entity Relationship Diagram

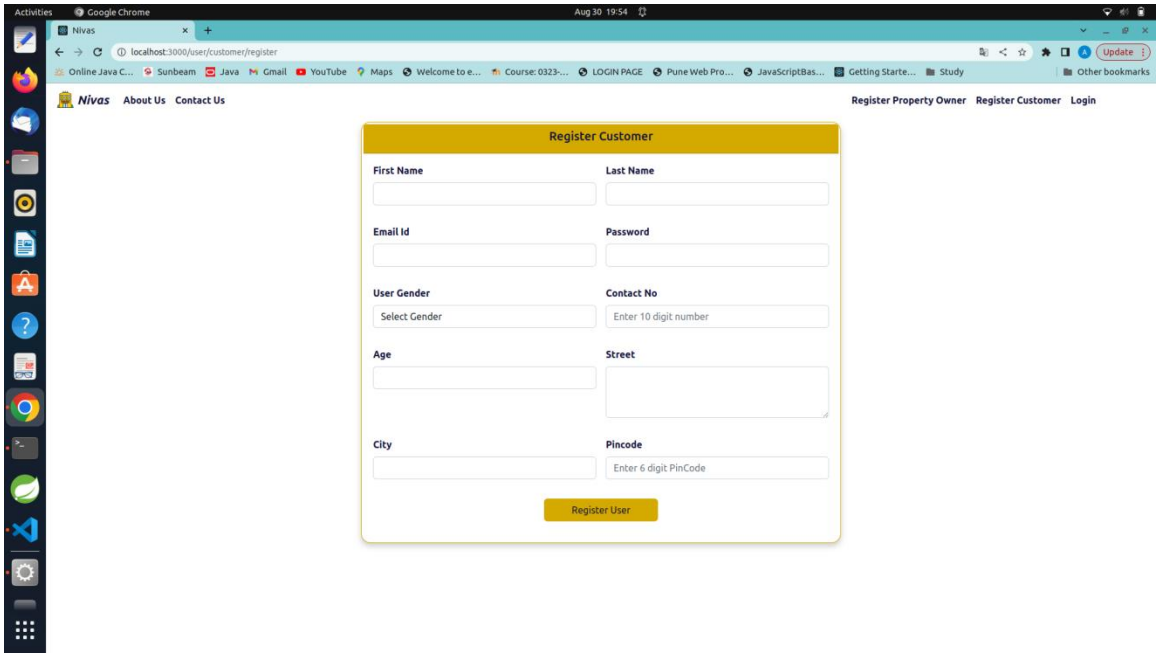


Appendix B

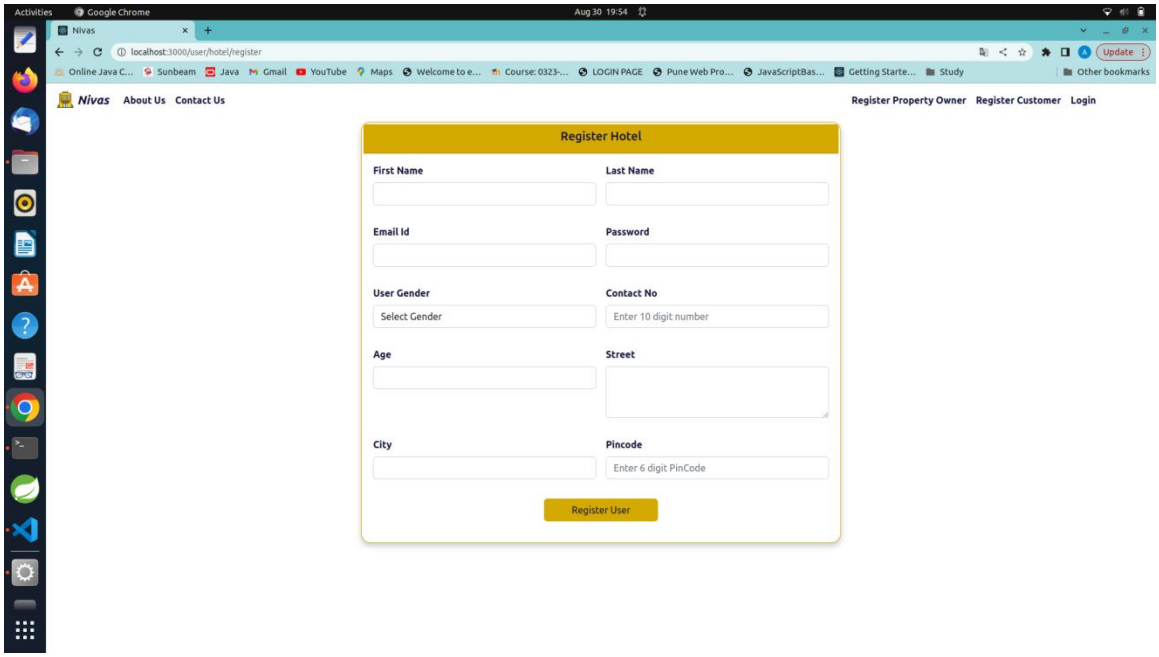
Homepage:



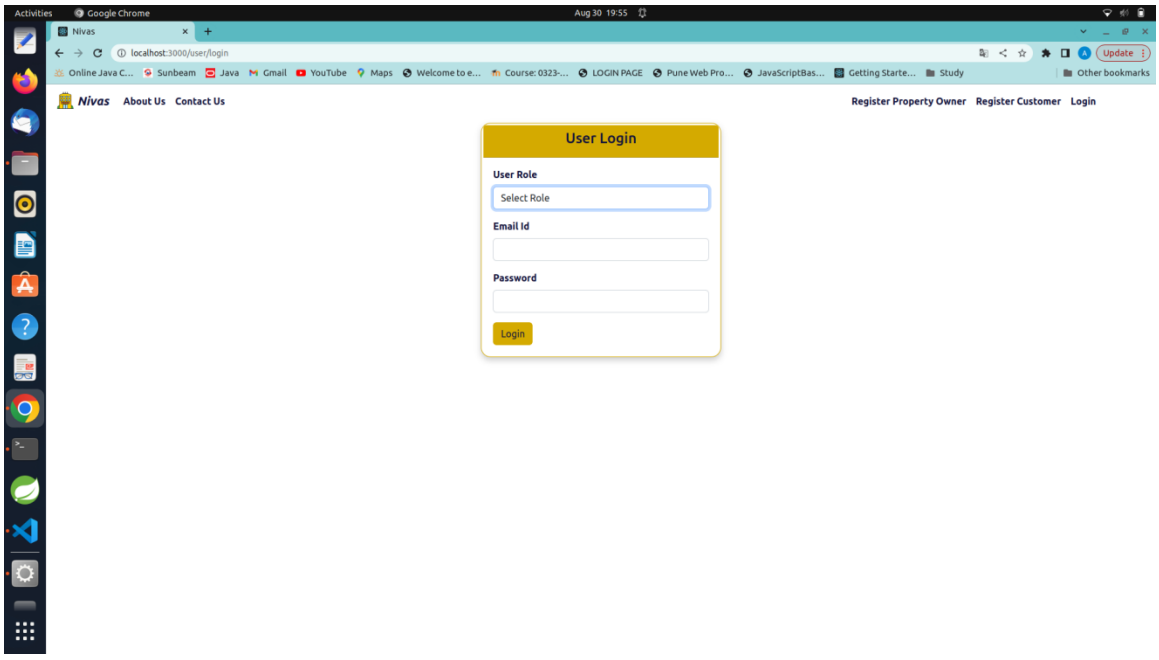
Customer Registration:



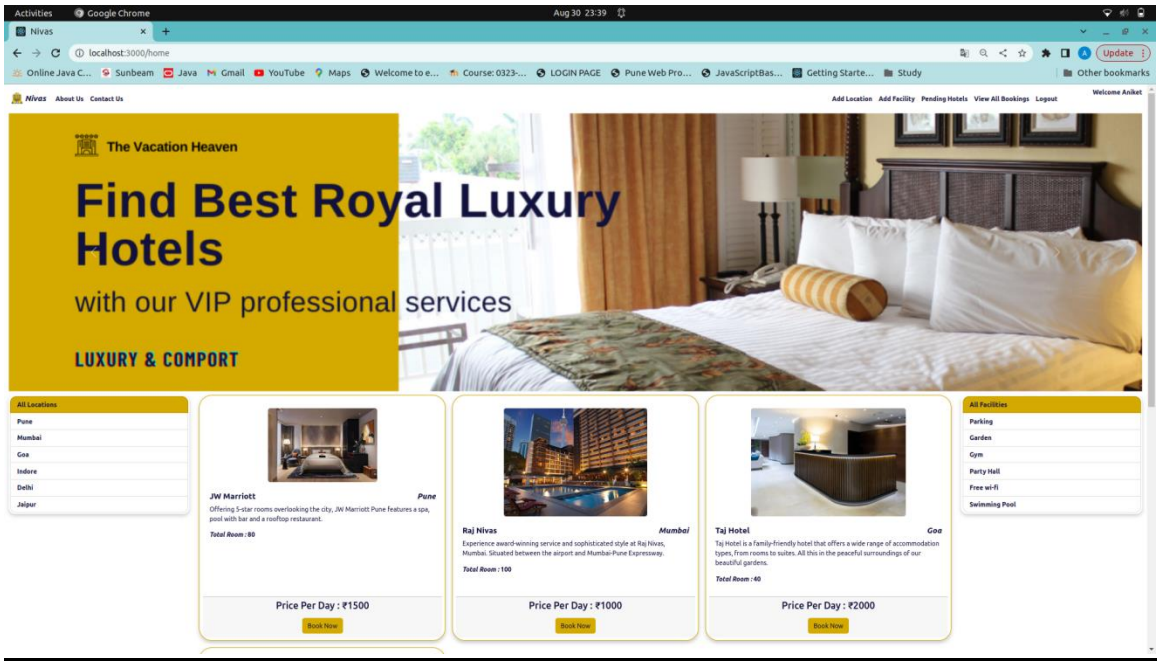
Property-Owner Registration:



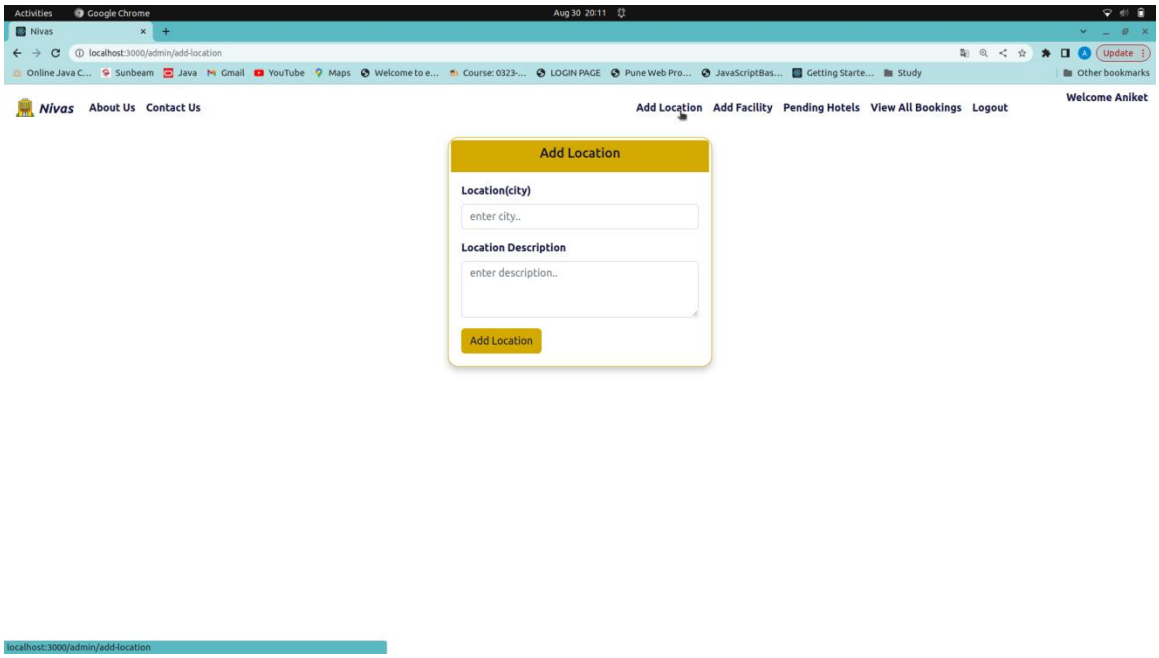
User Login:



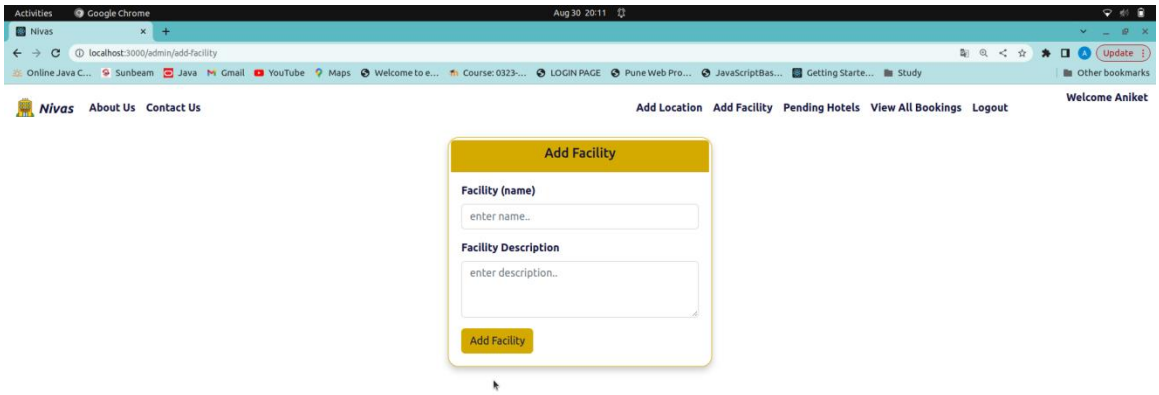
Admin Home Page:



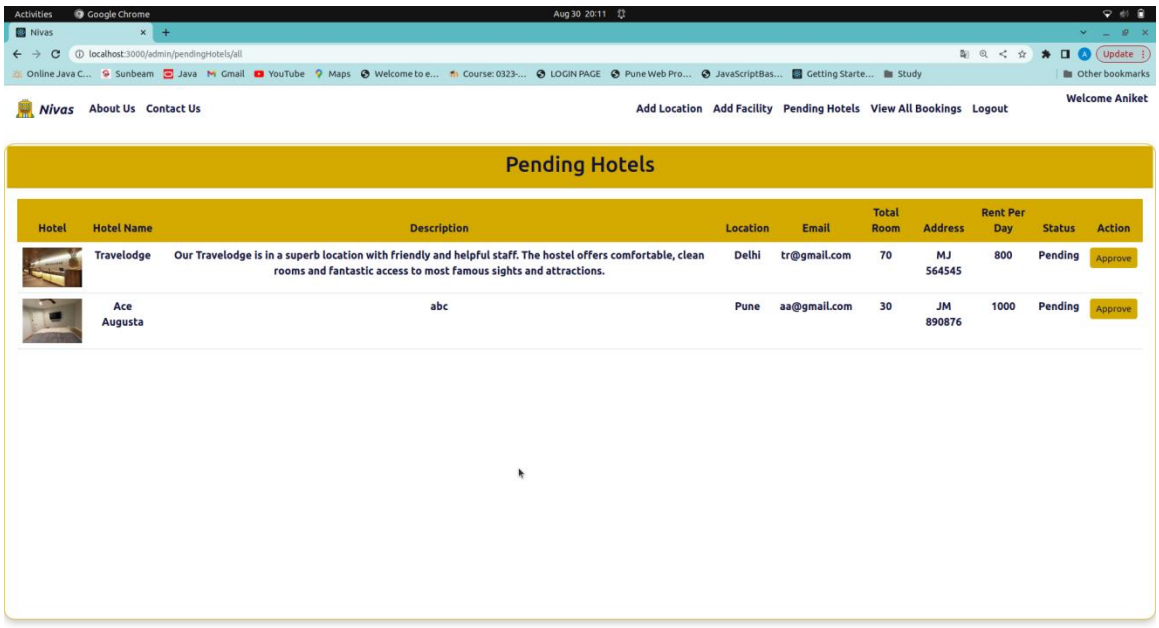
Add Location:



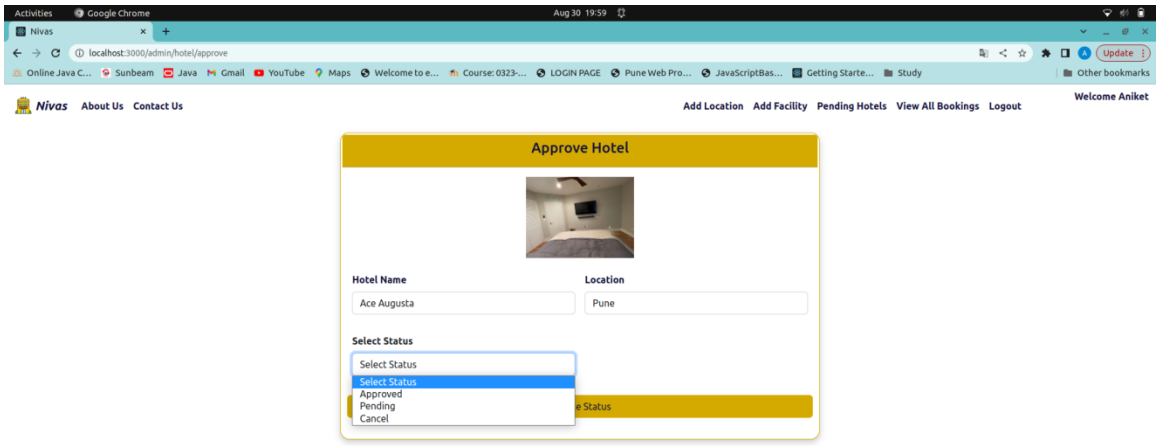
Add Facility:



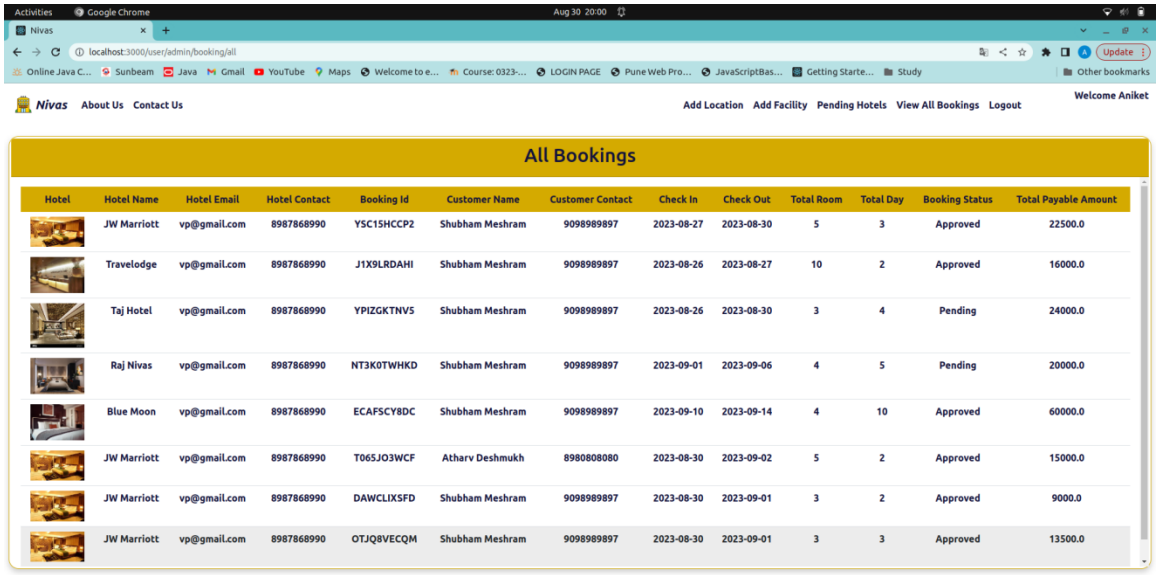
Pending Approvals of Hotels:



Change Status of Hotel:

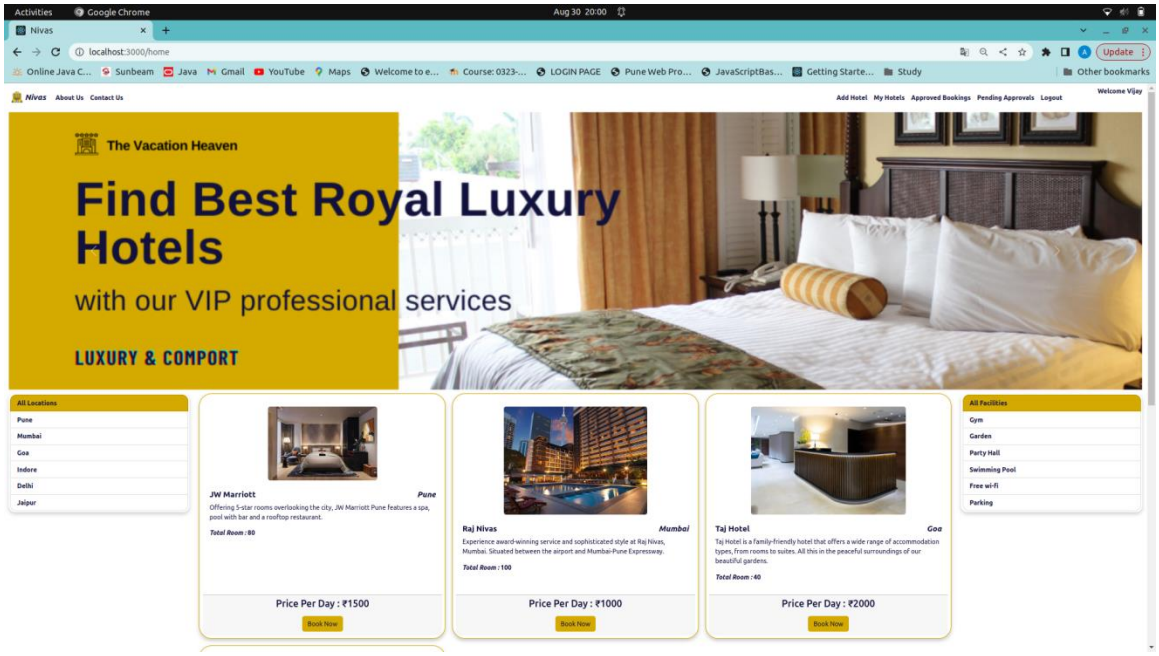


All Customer's Bookings from all Hotels:

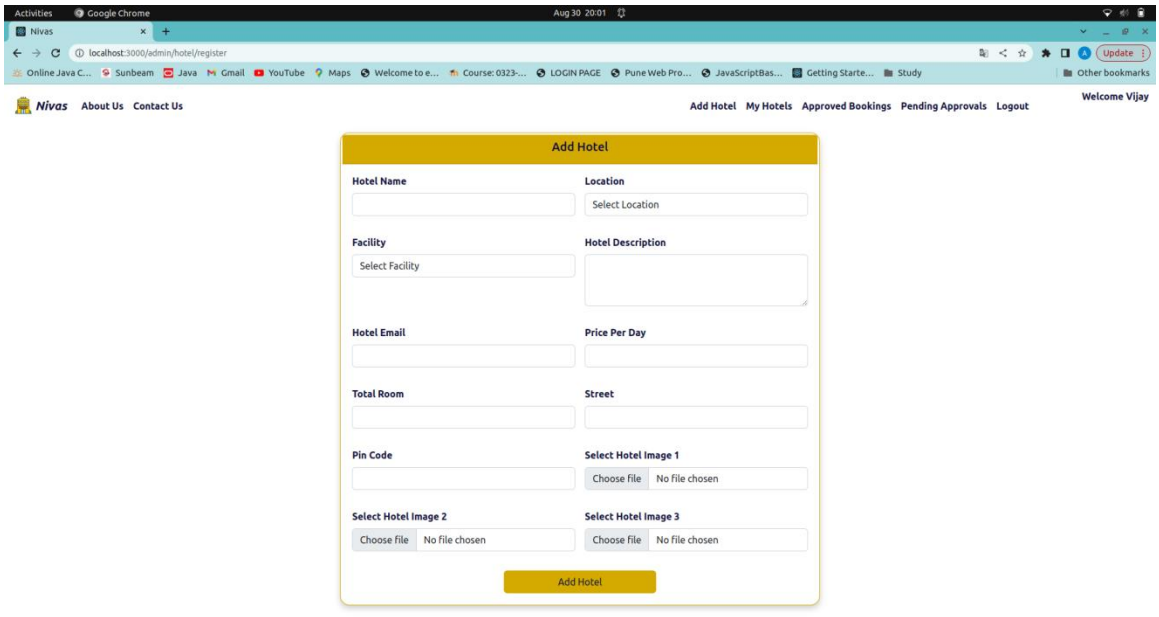


Hotel	Hotel Name	Hotel Email	Hotel Contact	Booking Id	Customer Name	Customer Contact	Check In	Check Out	Total Room	Total Day	Booking Status	Total Payable Amount
	JW Marriott	vp@gmail.com	8987868990	YSC15HCCP2	Shubham Meshram	9098989897	2023-08-27	2023-08-30	5	3	Approved	22500.0
	Travelodge	vp@gmail.com	8987868990	J1X9LRDAHI	Shubham Meshram	9098989897	2023-08-26	2023-08-27	10	2	Approved	16000.0
	Taj Hotel	vp@gmail.com	8987868990	YPIZGKTNV5	Shubham Meshram	9098989897	2023-08-26	2023-08-30	3	4	Pending	24000.0
	Raj Nivas	vp@gmail.com	8987868990	NT3K0TWHKD	Shubham Meshram	9098989897	2023-09-01	2023-09-06	4	5	Pending	20000.0
	Blue Moon	vp@gmail.com	8987868990	ECAFSCY8DC	Shubham Meshram	9098989897	2023-09-10	2023-09-14	4	10	Approved	60000.0
	JW Marriott	vp@gmail.com	8987868990	T065JO3WCF	Atharv Deshmukh	8980808080	2023-08-30	2023-09-02	5	2	Approved	15000.0
	JW Marriott	vp@gmail.com	8987868990	DAWCLIX5FD	Shubham Meshram	9098989897	2023-08-30	2023-09-01	3	2	Approved	9000.0
	JW Marriott	vp@gmail.com	8987868990	OTJQ8VECQM	Shubham Meshram	9098989897	2023-08-30	2023-09-01	3	3	Approved	13500.0

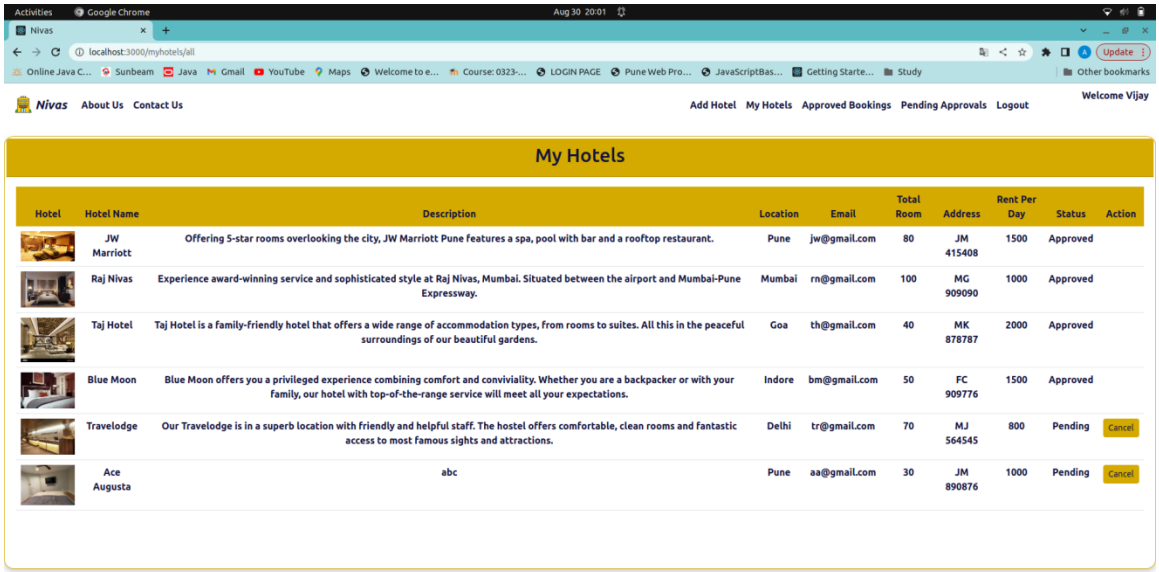
Property-Owner Home Page:



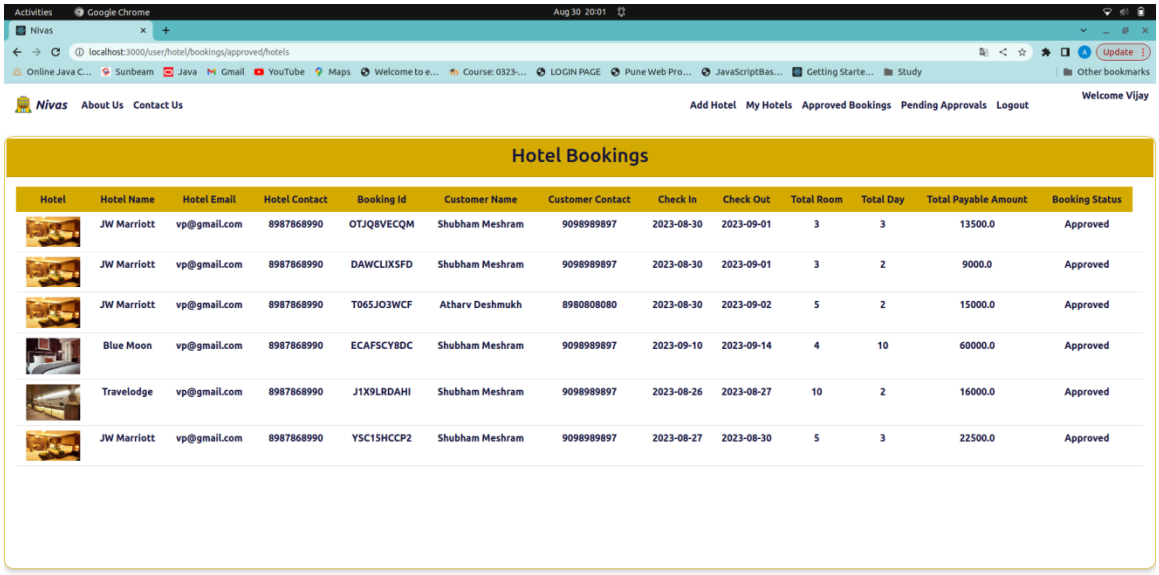
Add Hotel:



All Hotels corresponding to respective Property-Owner:

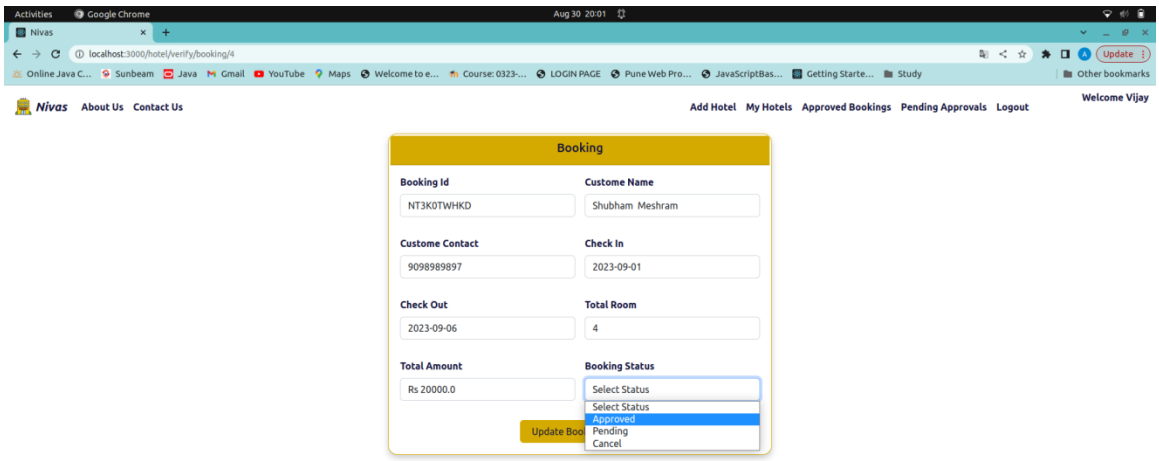


Approved Bookings of Customer:

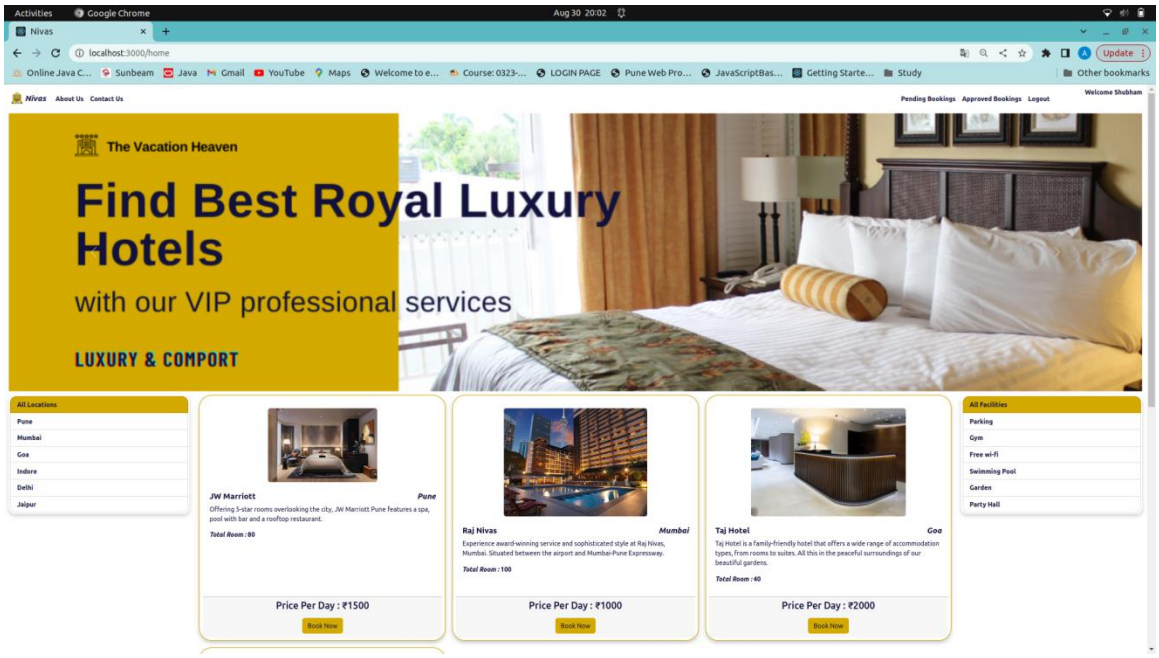


Pending Approvals of Customer Bookings:

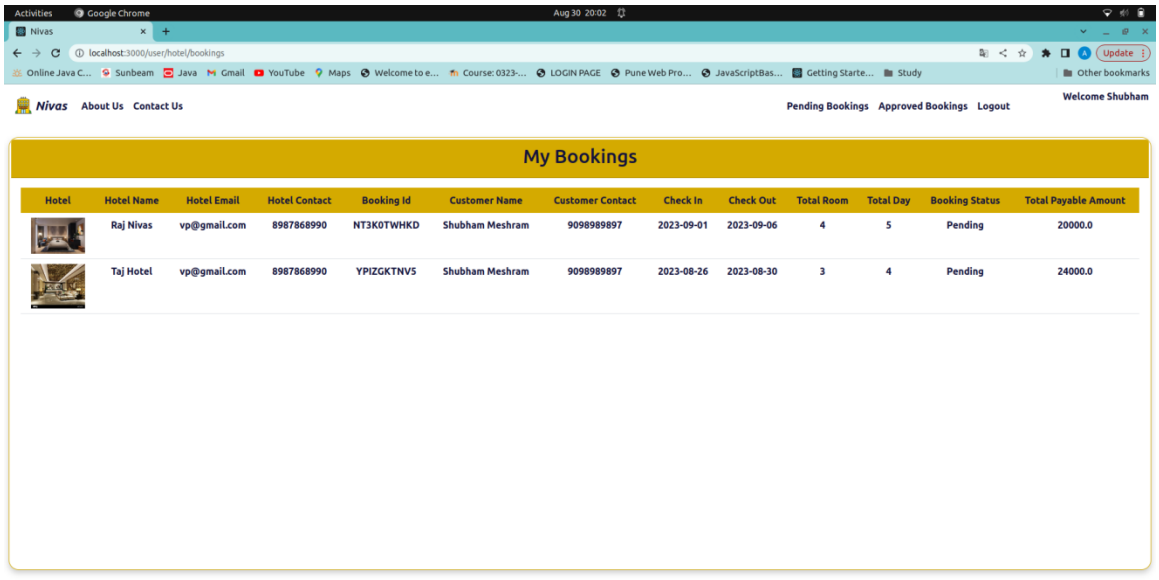
Change Bookings Status of Customers:



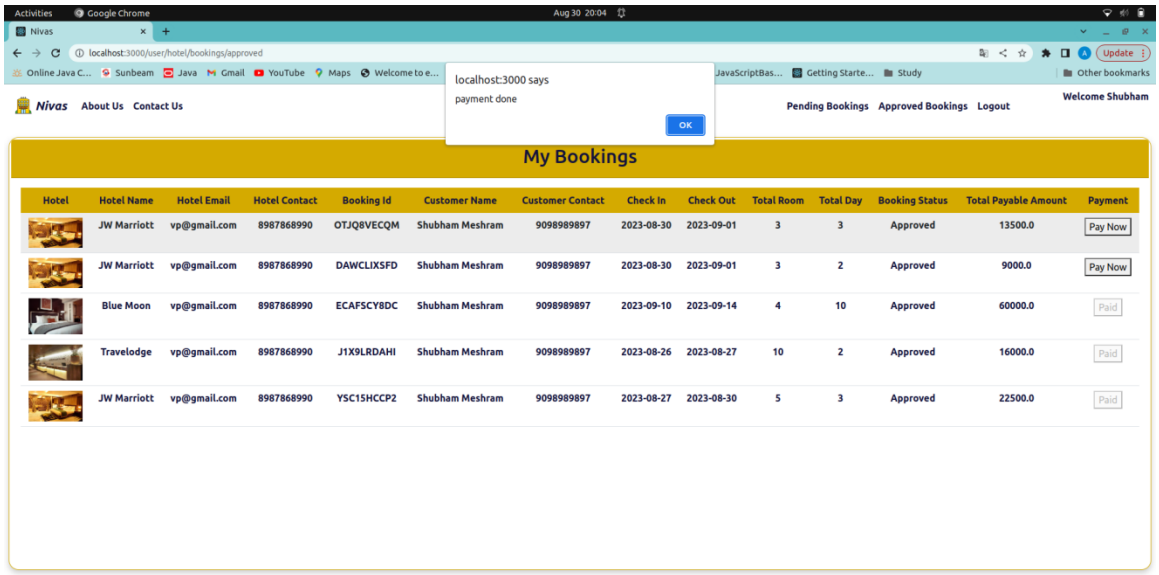
Customer HomePage:



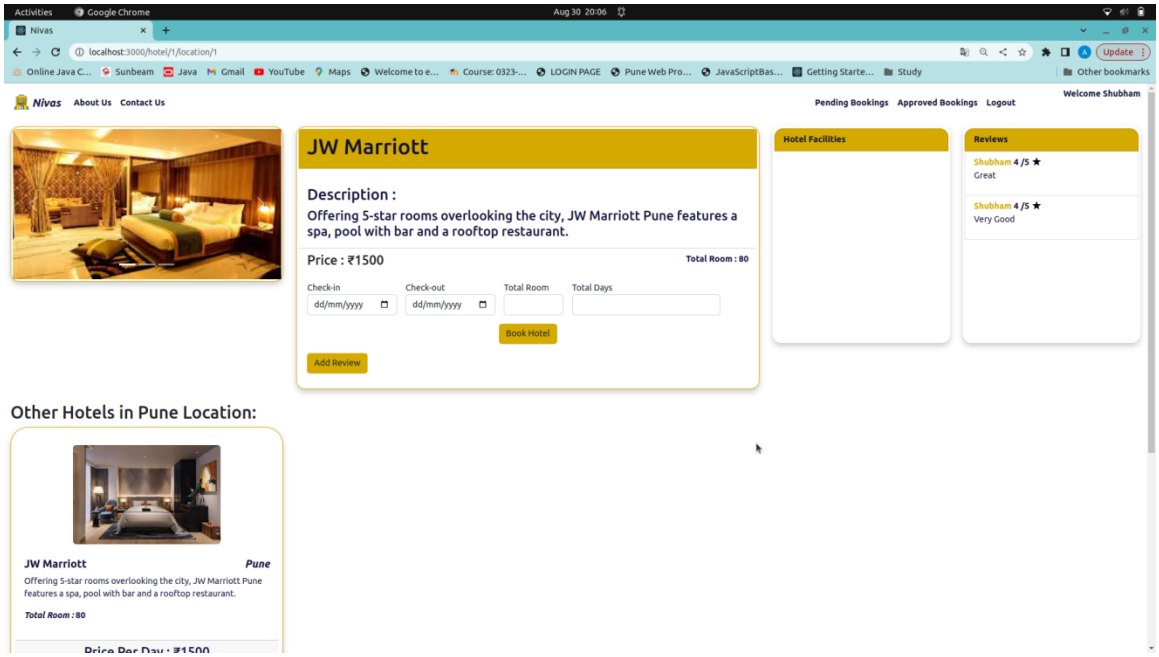
Pending Bookings of Customer:



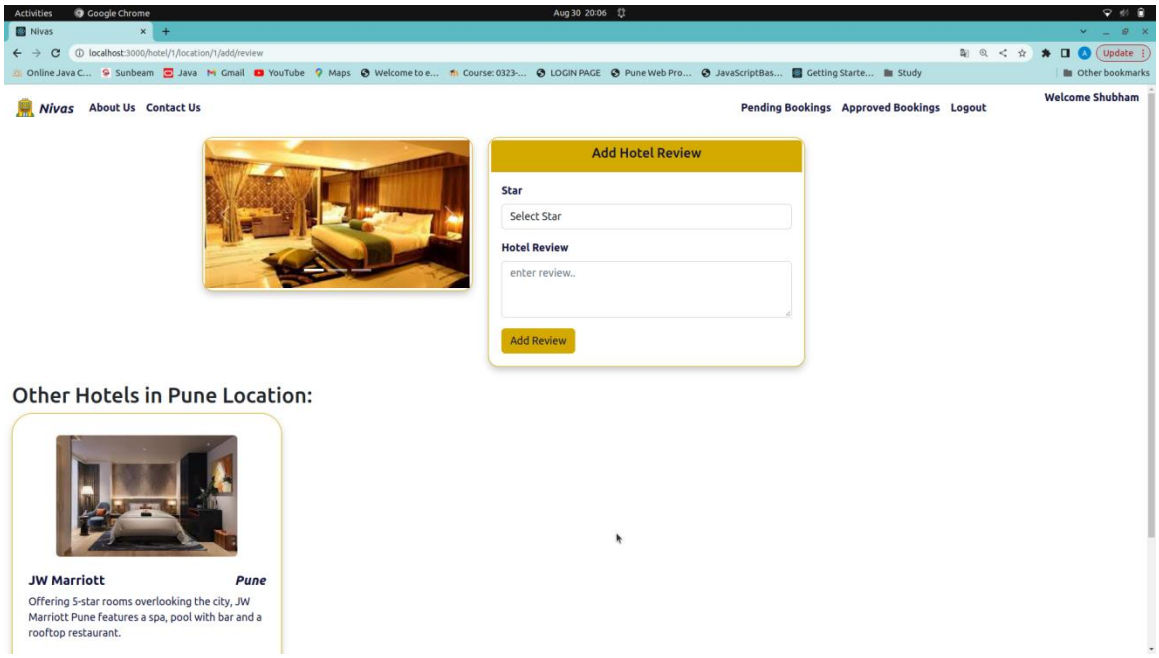
Bookings of Customers approved by Property-Owner:



Booking Page for Hotel:



Add Hotel Review:



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