



**A PROJECT REPORT ON:-**

# **HOTEL BOOKING & MANAGEMENT SYSTEM**

**PROJECT REPORT SUBMITTED BY:**

**GROUP – 4**

**GROUP MEMBER NAME.**

***SHIVAM ROY (GROUP LEAD)***

**ROLL.NO**

***501***

***MD.MUNNA SEKH***

***485***

***MD.GHULAM JILANI***

***508***

***VIJAY KUMAR***

***507***

***RAJA NONIA.***

***505***

***MD.MOBASSHIR MUSHTAQE***

***482***

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## **ACKNOWLEDGEMENT:-**

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# INTRODUCTION:-

This project introduces The “**HOTEL BOOKING & MANAGEMENT SYSTEM**”. It explains how booking is done in a hotel & how hotel employees record are managed. This project is mainly divided into 2 modules :-

- 1) User panel.
- 2) Admin panel.

On the other hand there has to be a check out system which is managed by the admin, for those rooms which had been booked before hands and are to be left out now.

The Hotel Department maintains the room availability and booking details in a certain Database. It contains the details of the different rooms available in that particular hotel, for instance there might be rooms with A.C, and non A.C. facilities which might further be classified into single, double and triple bed rooms.

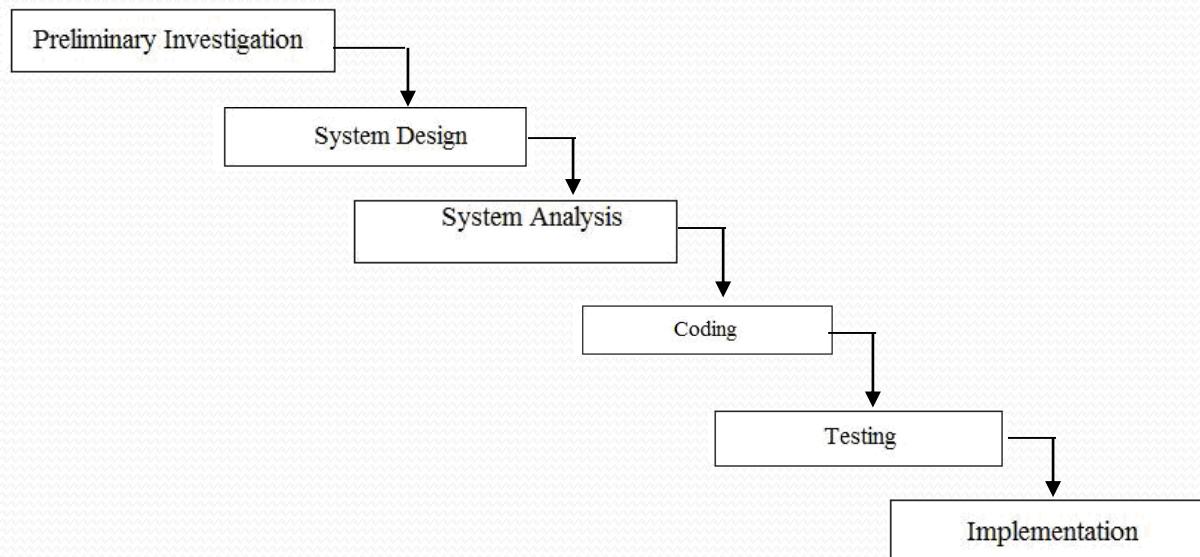
The Database also consist a record of the rooms that are already booked and the ones yet to be booked.

A bright feature of this software is the inclusion of ***The Map viewing, weather viewing & it's smooth UI*** feature, which makes it more user friendly, more efficient and provides it with high flexibility.

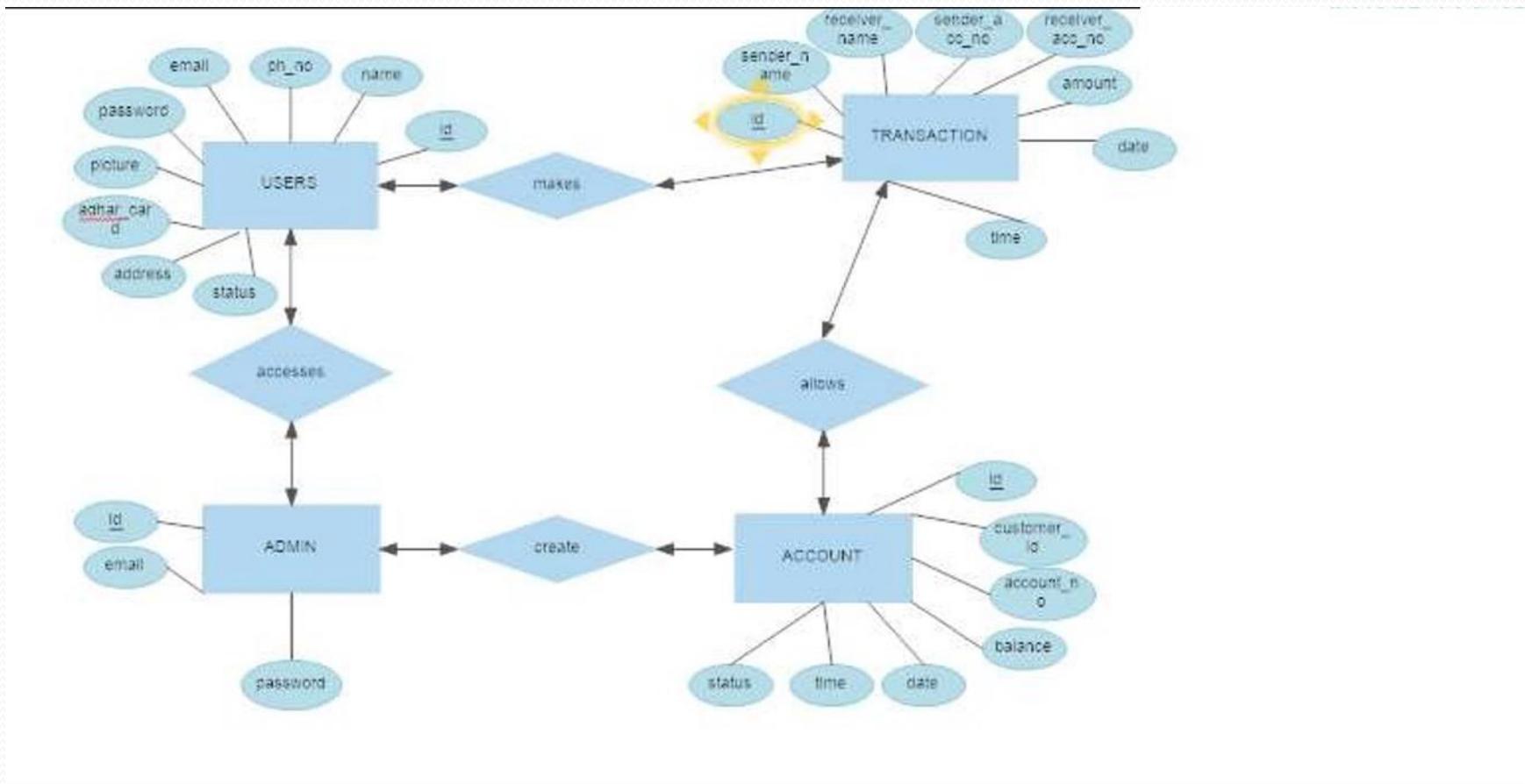
# **SOFTWARE DEVELOPMENT PARADIGM:-**

The software development paradigm used in developing this software is waterfall. In this every phase is executed very carefully one after another.

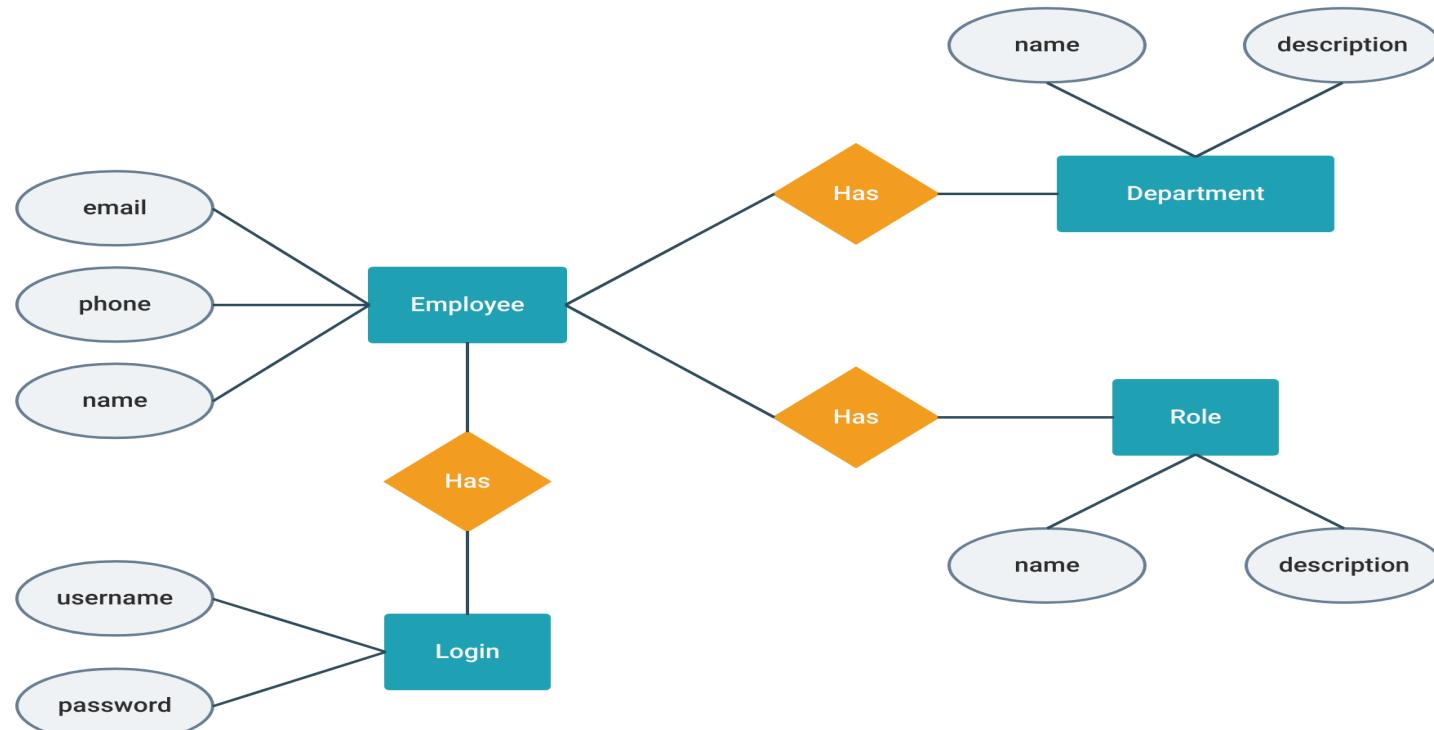
Any other SDLC model follows this technique as its basic unit. The various phases of waterfall model which model with its working is as follows:



# Er diagram:-

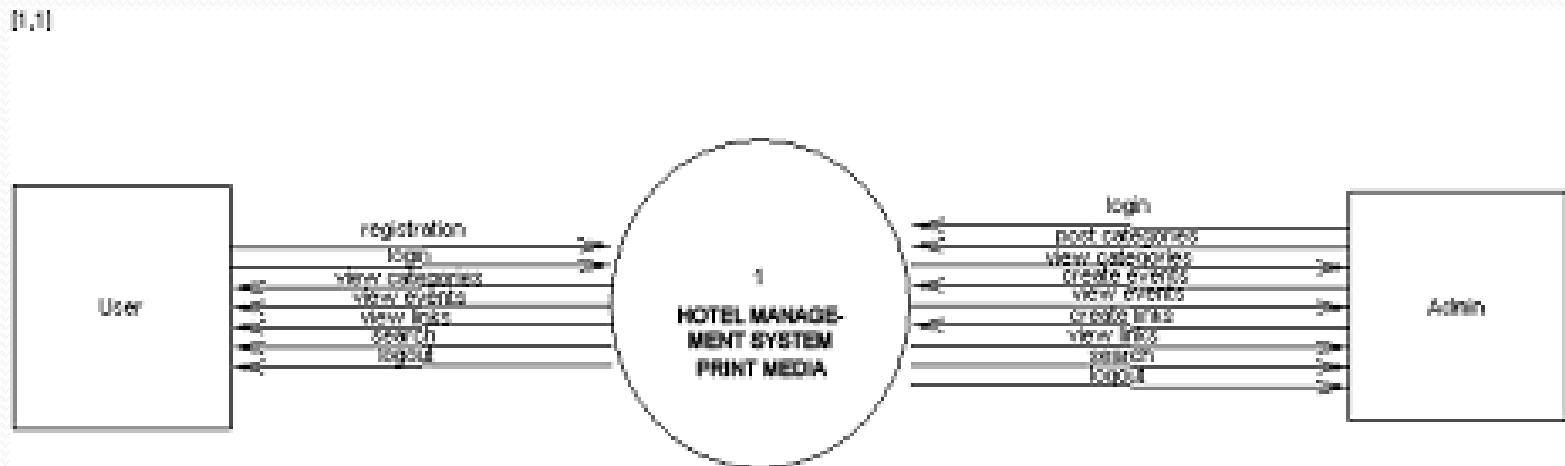


# Er diagram:-



# DATA FLOW DIAGRAM:-

DFD [1,1] :-



# Software requirement Specification:-

A set of programs associated with the operation of a computer is called software. Software is the part of the computer system, which enables the user to interact with several physical hardware devices.

The minimum software requirement specifications for developing this project are as follows:

**Operating System : Windows XP/Vista/2000/7/8/10, Linux, Mac OS.**

**Front-end : HTML 5, CSS 3, JavaScript, jQuery, Bootstrap 4.**

**Back-end : PHP 8.0 .**

**Database : My SQL**

**Presentation : Power Point 2019**

**Documentation Tool : MS Word**

For viewing and searching direction in Map, we need the Google MAP's API.

For viewing and searching Weather of a location, we need the WEATHER API.

# Hardware Requirement Specification:-

The collection of internal electronic circuits and external physical devices used in building a computer is called the Hardware.

The minimum hardware requirement specifications for developing this project are as follows:

**Processor** : Standard processor with a speed of 1.6 GHz

**RAM** : 4 GB RAM or more

**Hard Disk** : 50 GB or more

**Monitor** : Standard color monitor

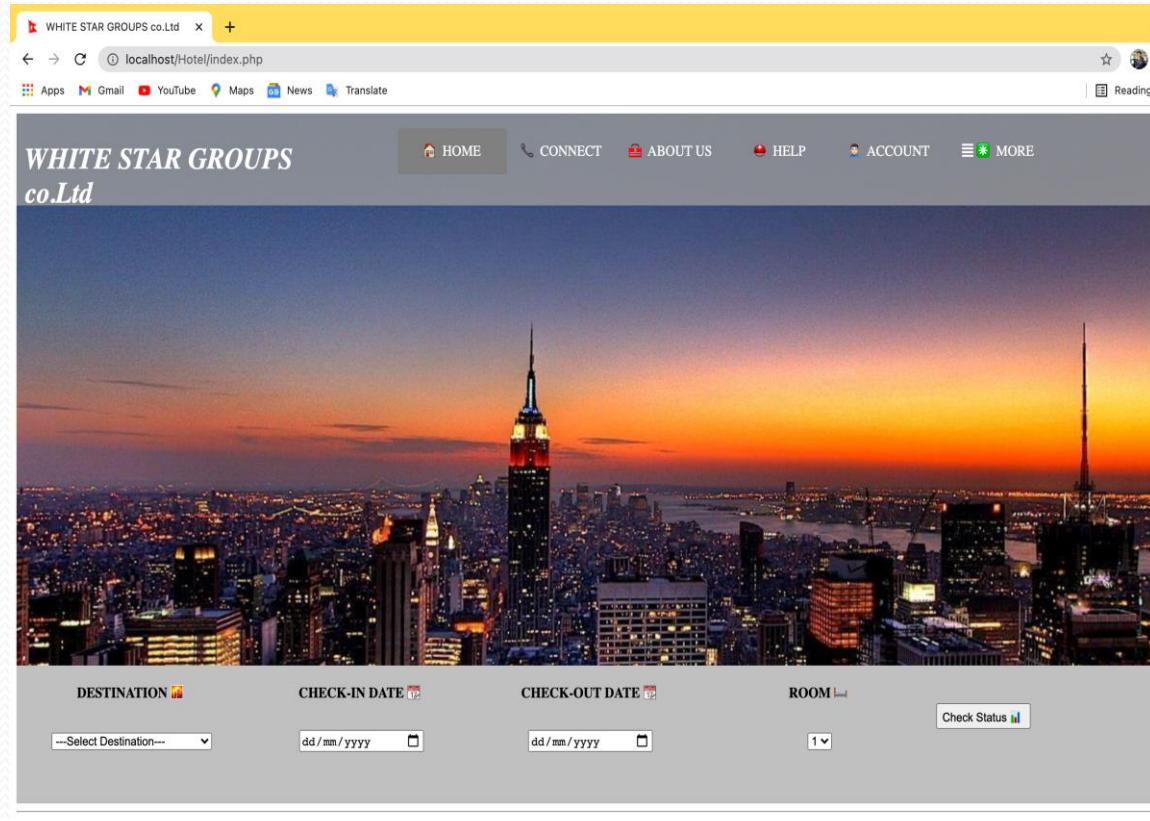
**Keyboard** : Standard keyboard

**Mouse** : Standard mouse Functional Requirements



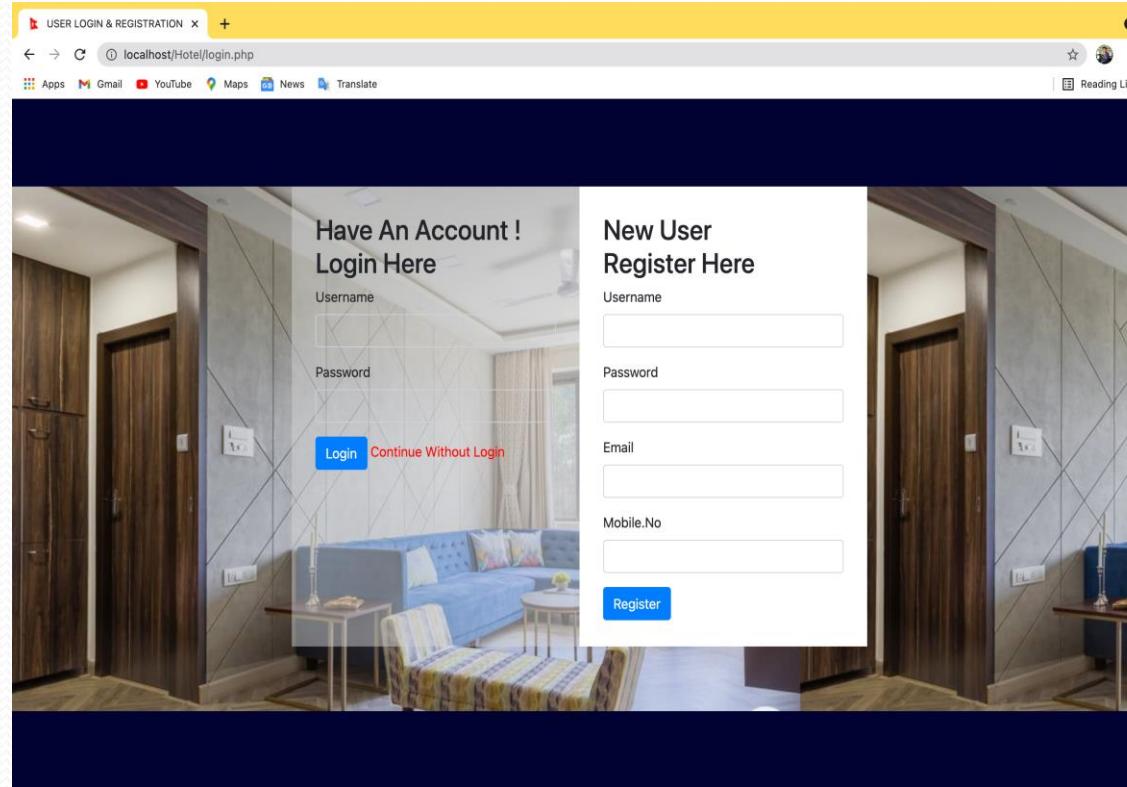
# SNAPSHOTS OF THE PROJECT

[1]



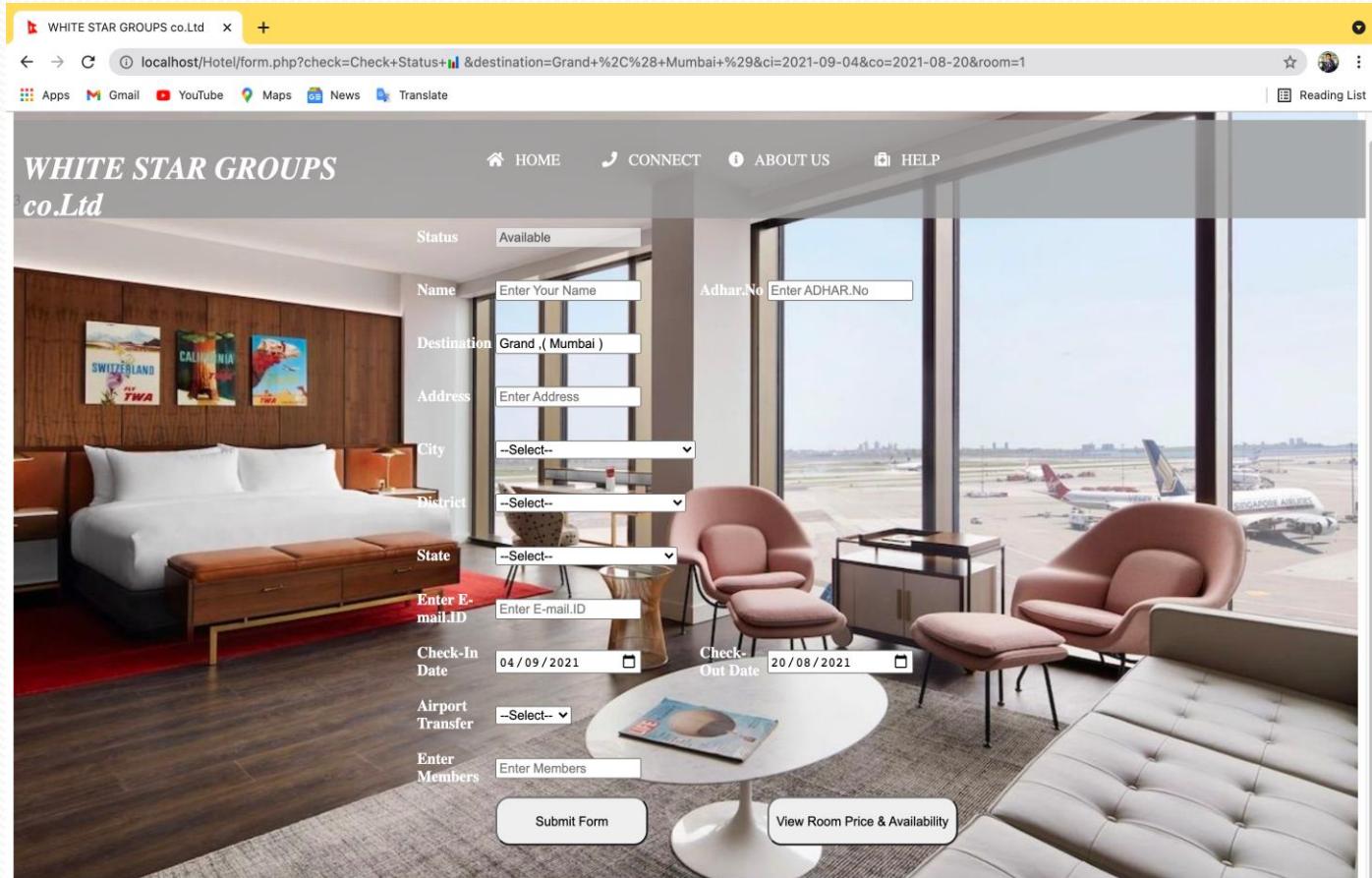
The above image depicts the User panel Home page/Welcome page of the project.

[2]



The above image depicts the user Login page of the project.

[3]



The above image depicts the User registration/User room booking page of the project.

[4]

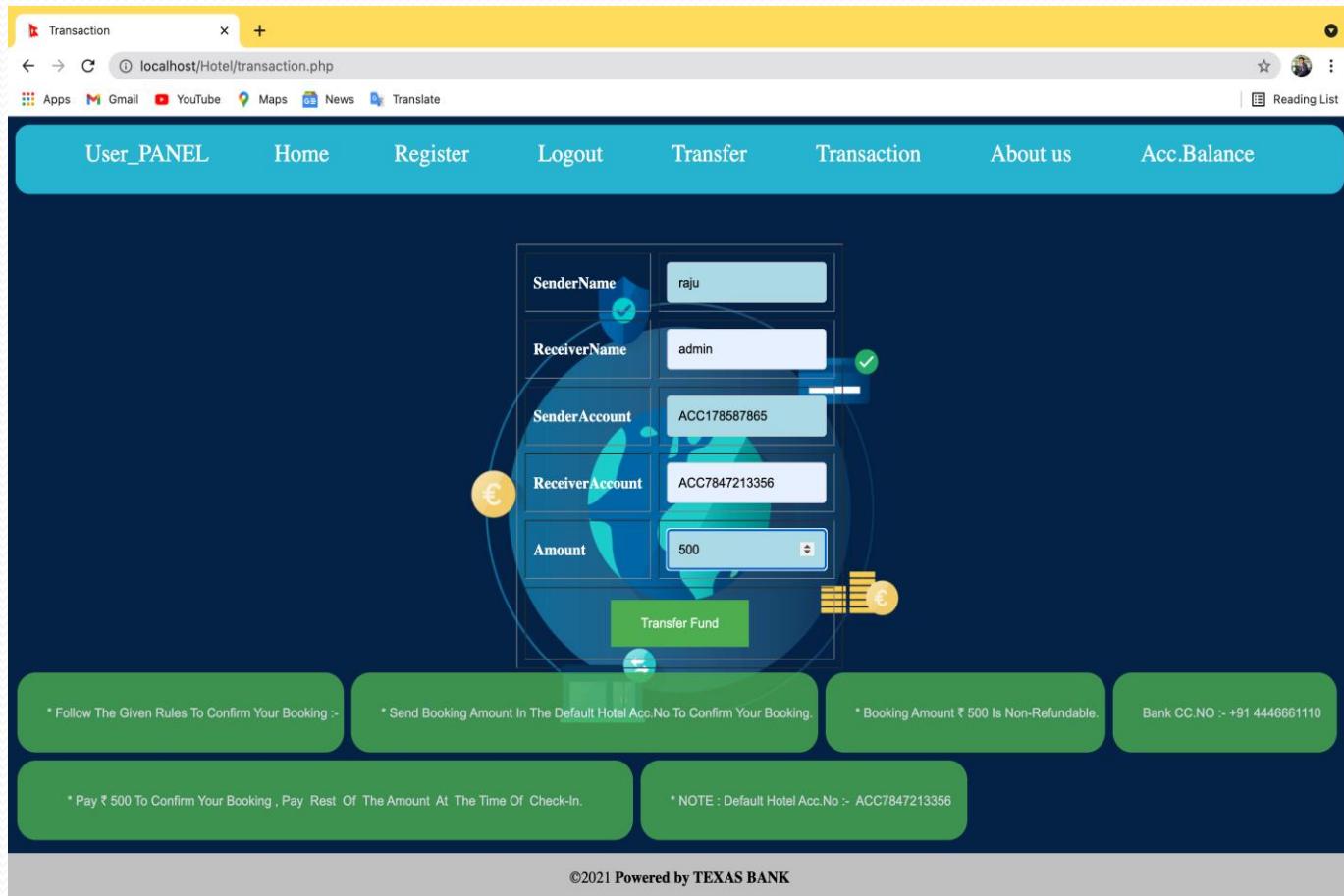
The screenshot shows a web browser window with the title 'WHITE STAR GROUPS co.Ltd' and the URL 'localhost/Hotel/sroom.php'. The page header includes 'HOME', 'LOGOUT', and 'ROOM GALLERY' links. The main content displays a table of room types with columns for Room Type, Price, and Status. The table entries are:

Room Type	Price	Status
Queen Suite	₹ 25,000	Un Book
Semi Deluxe Room	₹ 15,000	Un Book
Window View Semi Deluxe Room	₹ 35,000	Un Book

A 'Make Payment' button is located at the bottom of the table. A note at the bottom states: '\* Note :- Room Will Be Booked In The First Book First Served Order , You Can Downgrade Or Upgrade Your Booking According To Your Choice & Room Availability At The Time Of Check-In.'

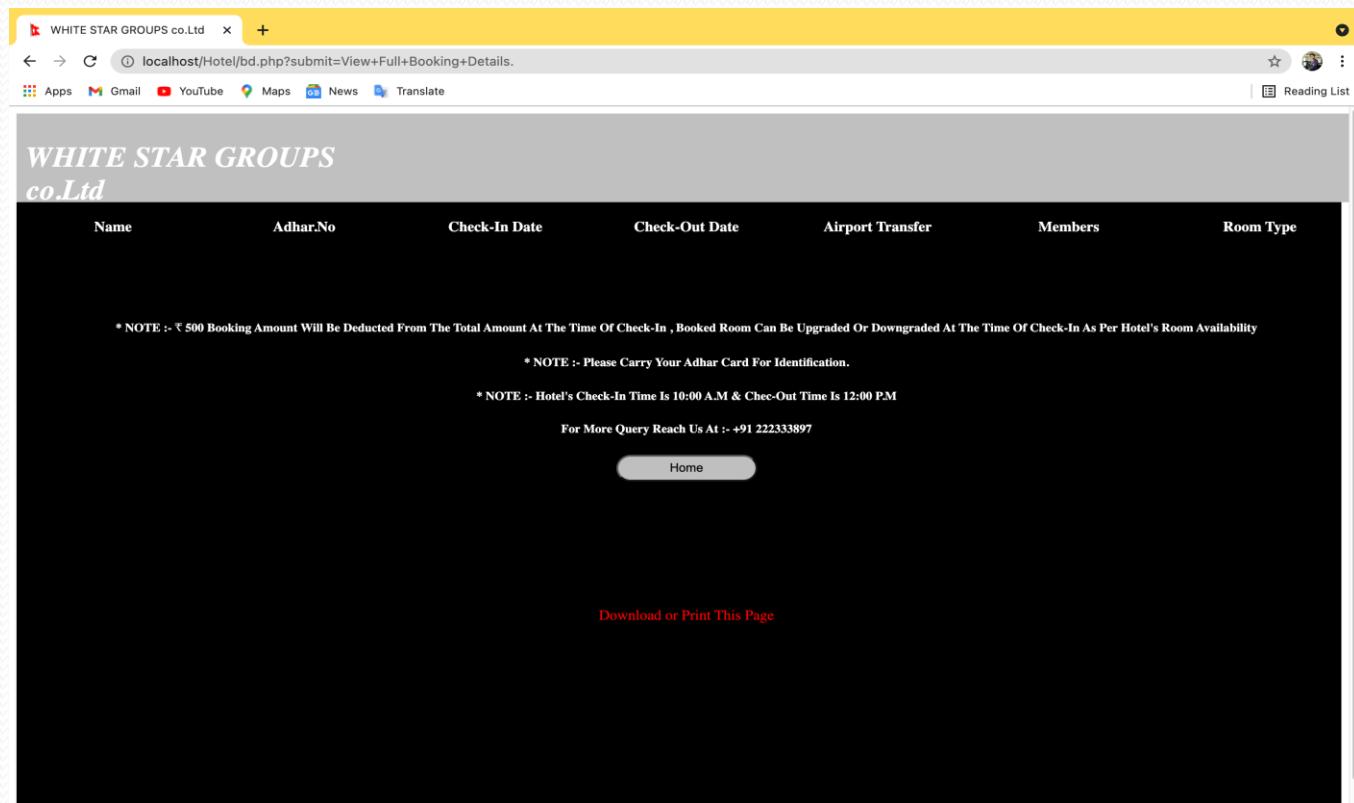
The above image depicts the Current un-booked room catalogue page of the project.

[5]



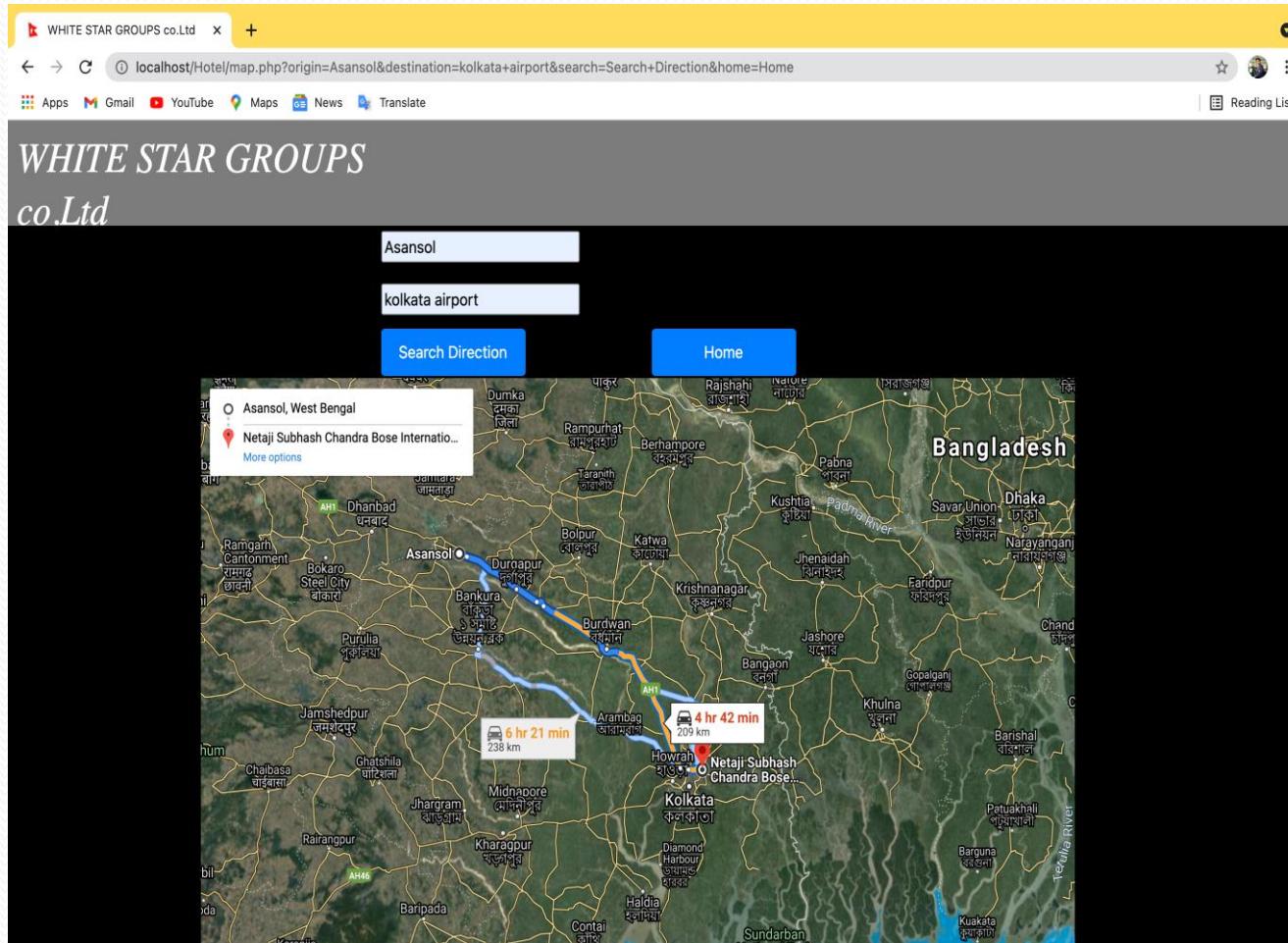
The above image depicts the Net-Banking Transaction page of the project.

[6]



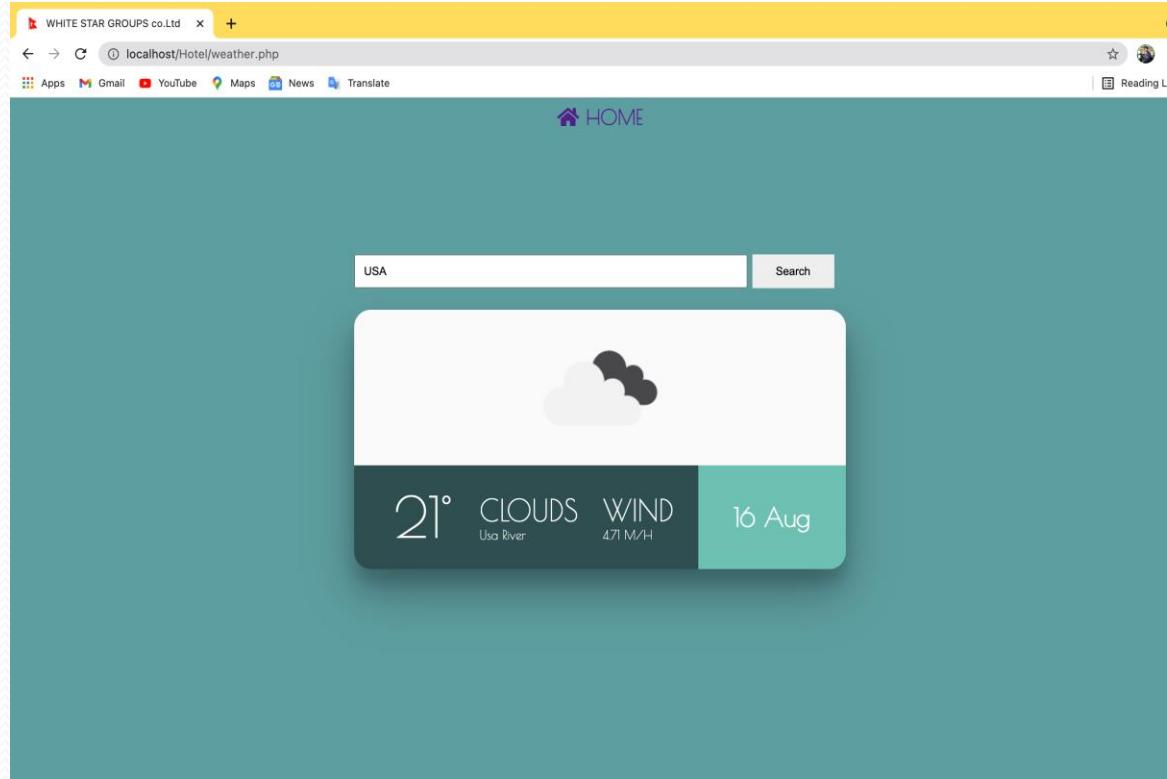
The above image depicts the final confirmation of booking & booking receipt details page of the project.

[7]



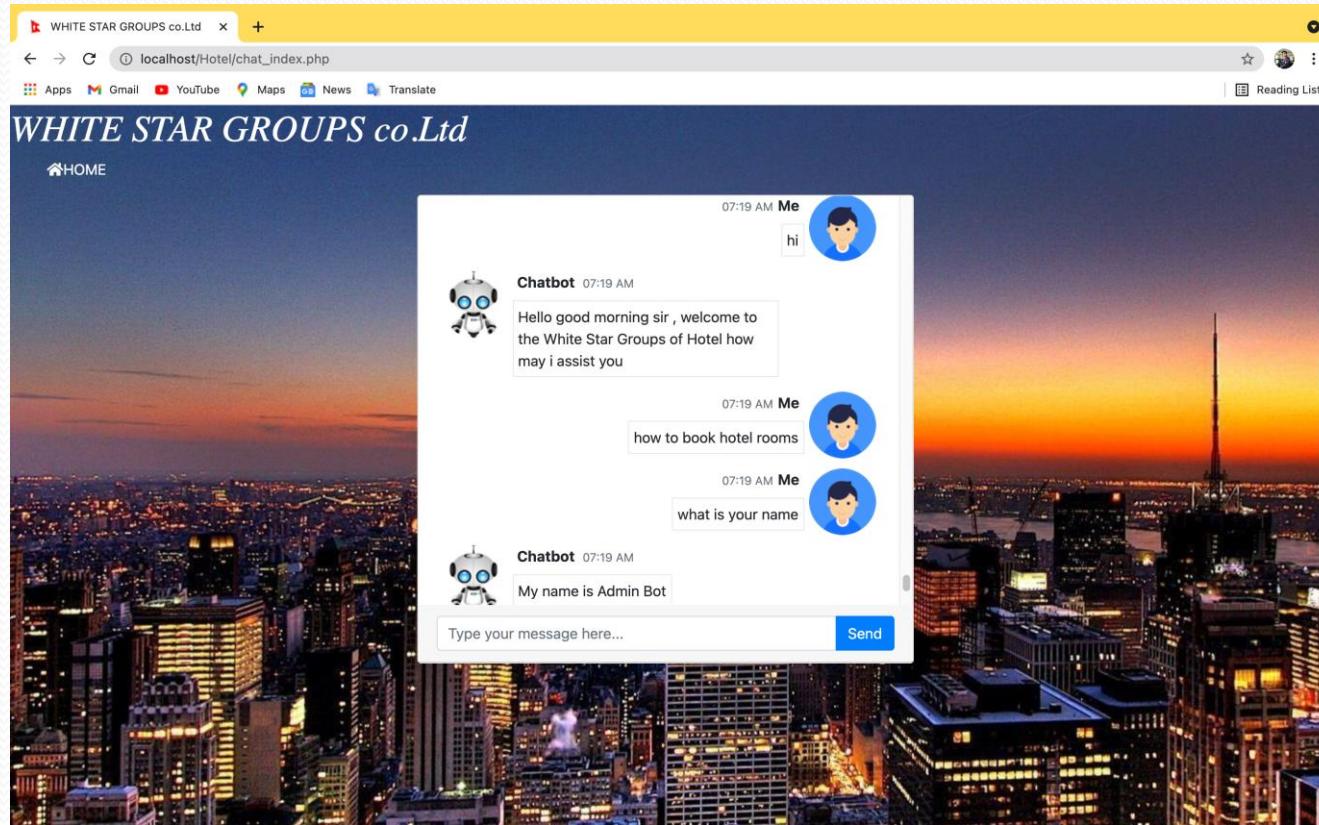
The above image depicts the integrated map page of the project. Here it shows the direction between two location & how much time is needed to travel.

[8]



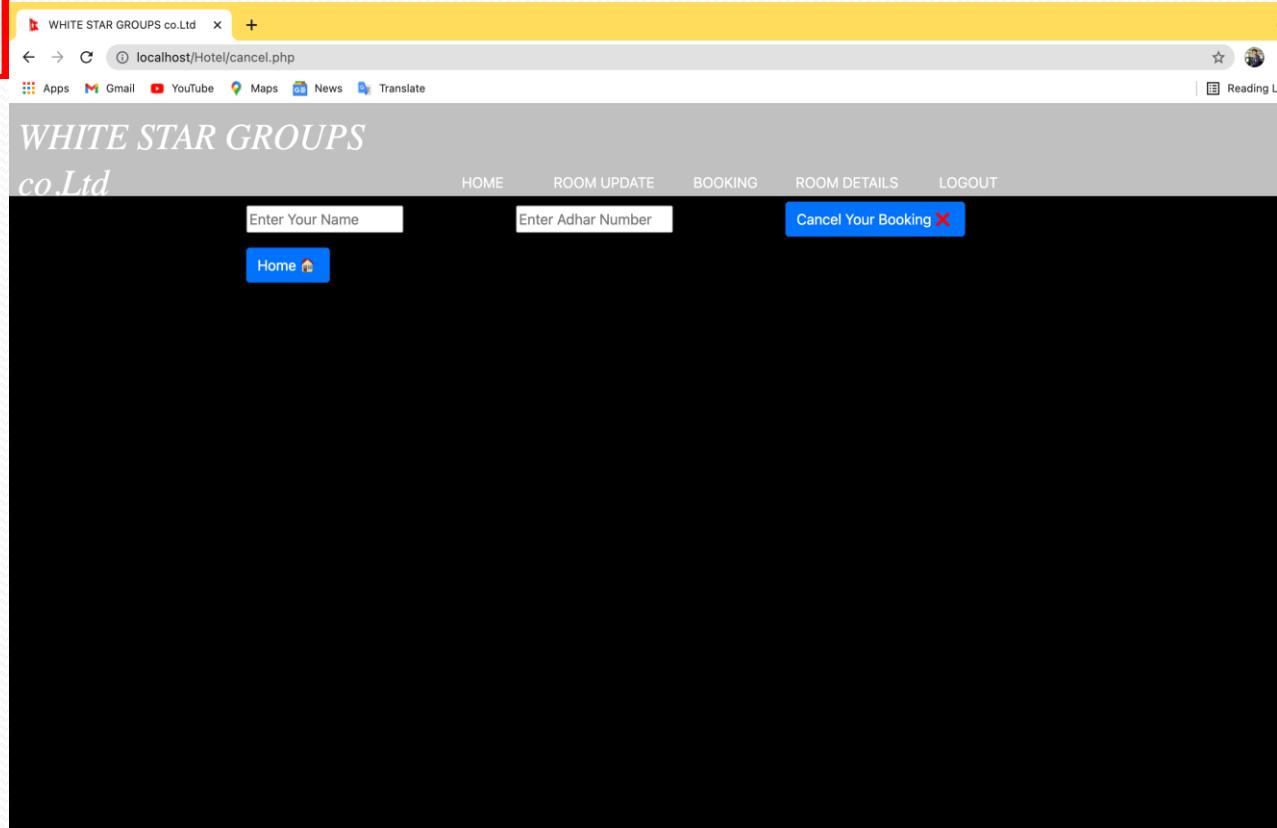
The above image depicts the integrated weather information page of the project.

[9]



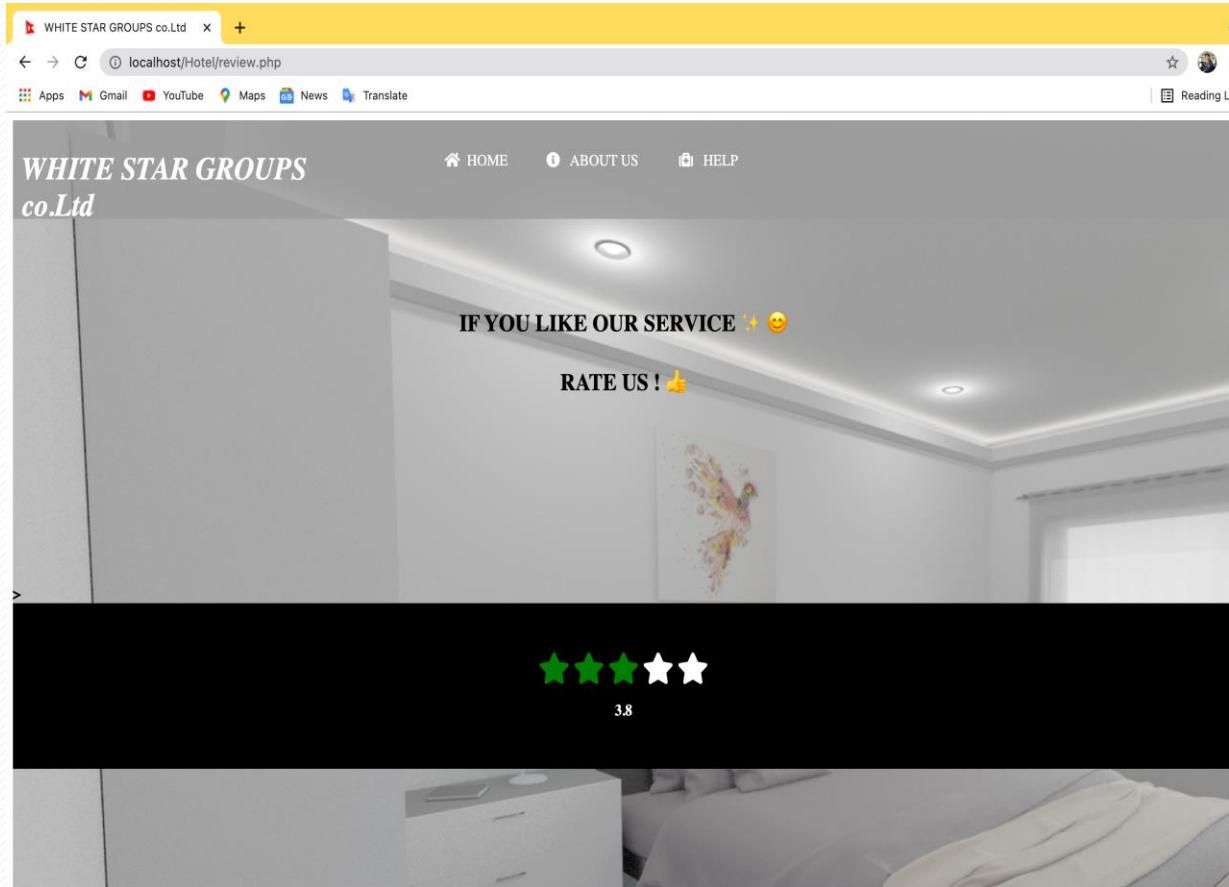
The above image depicts the integrated chat bot page of the project.

[10]



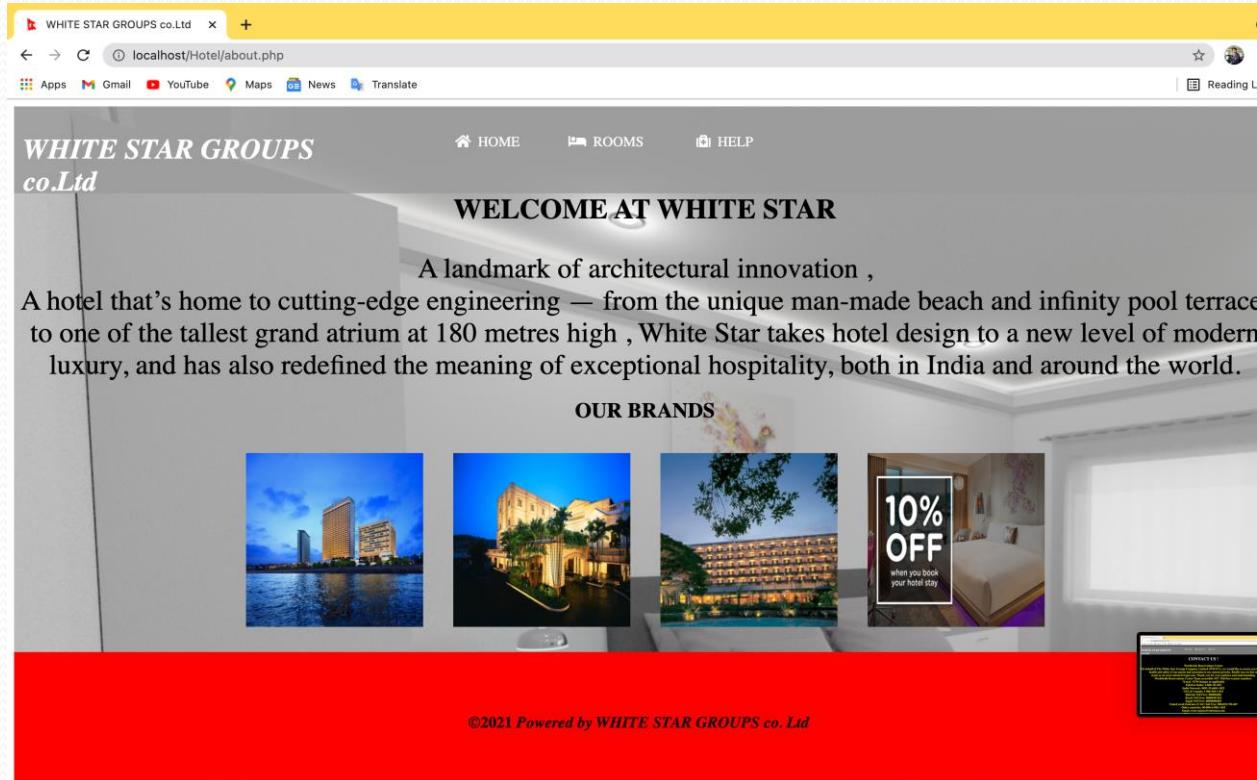
The above image depicts the booking cancel page of the project.

[11]



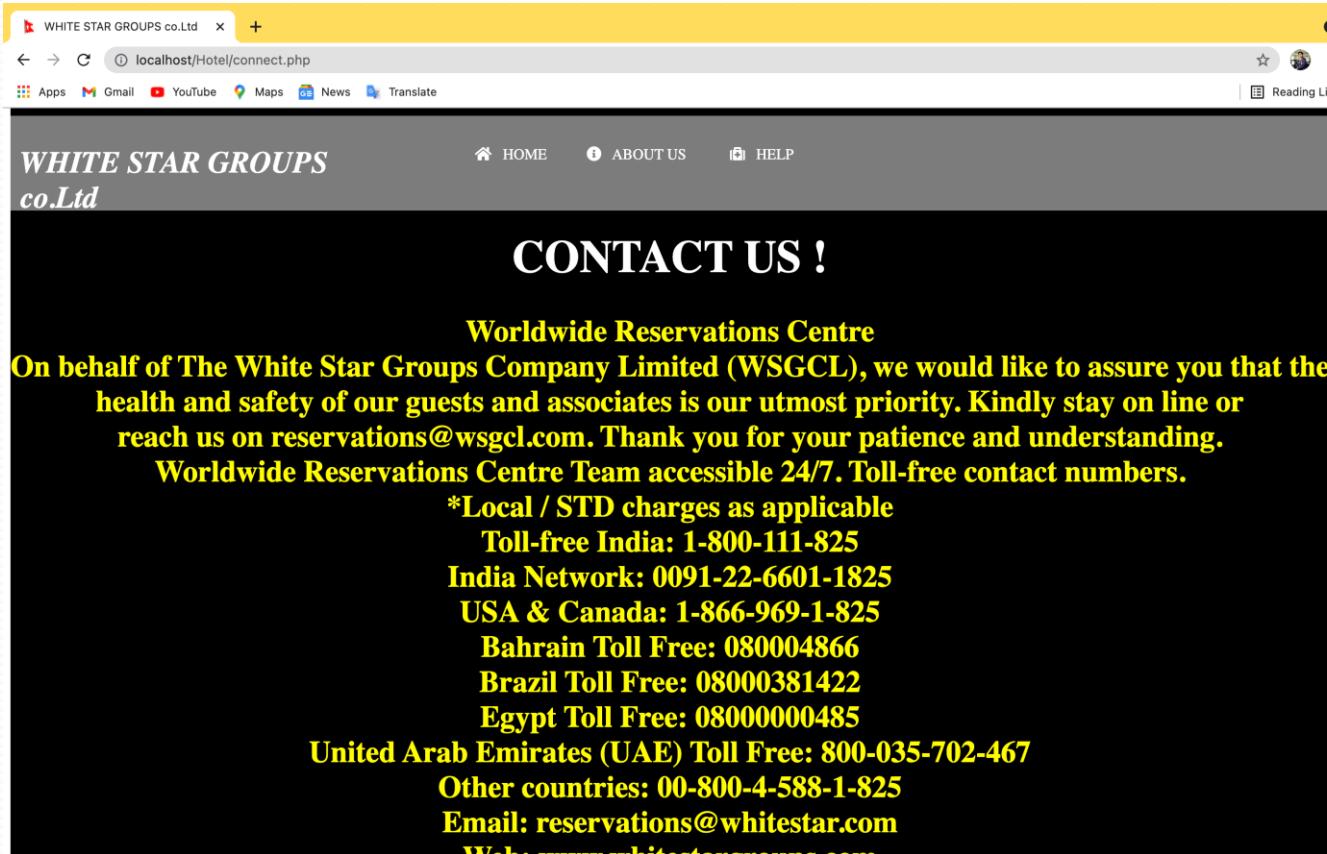
The above image depicts the registered user rating page of the project.

[12]



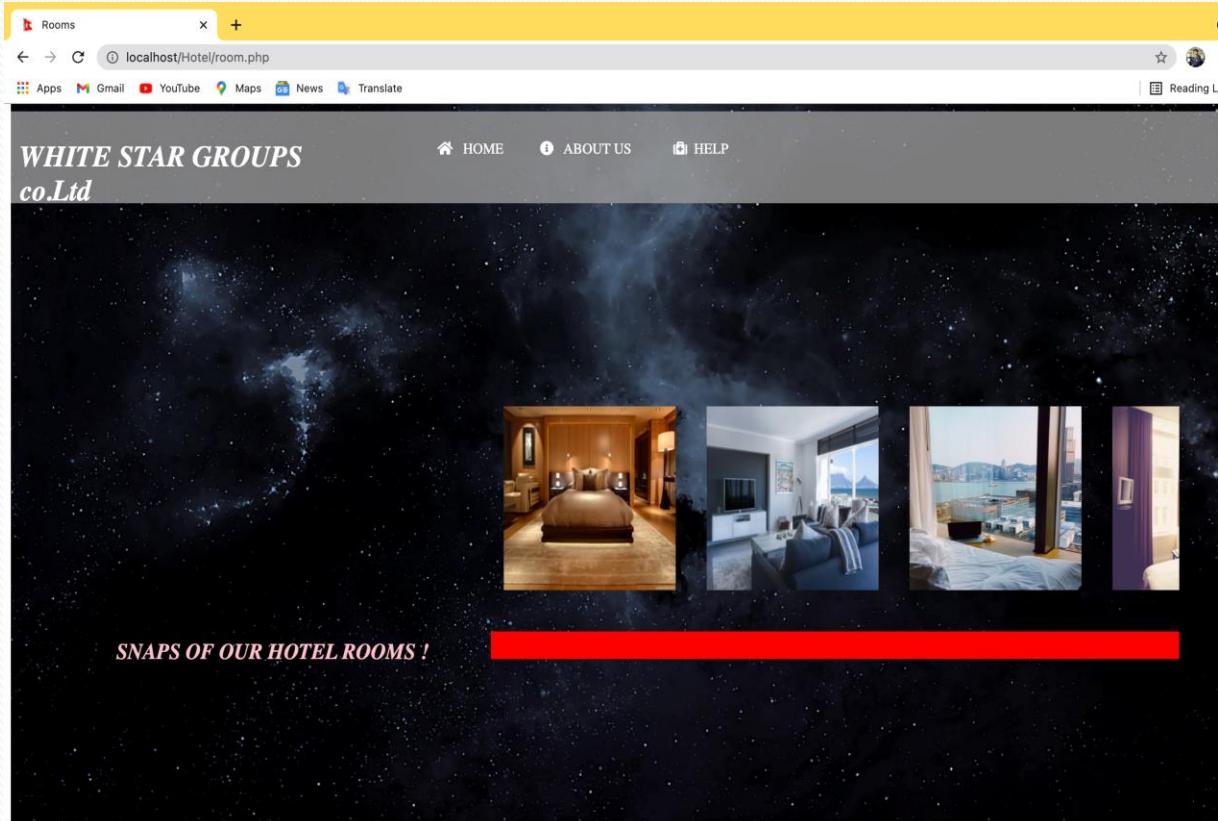
The above image depicts the about us page of the project.

[13]



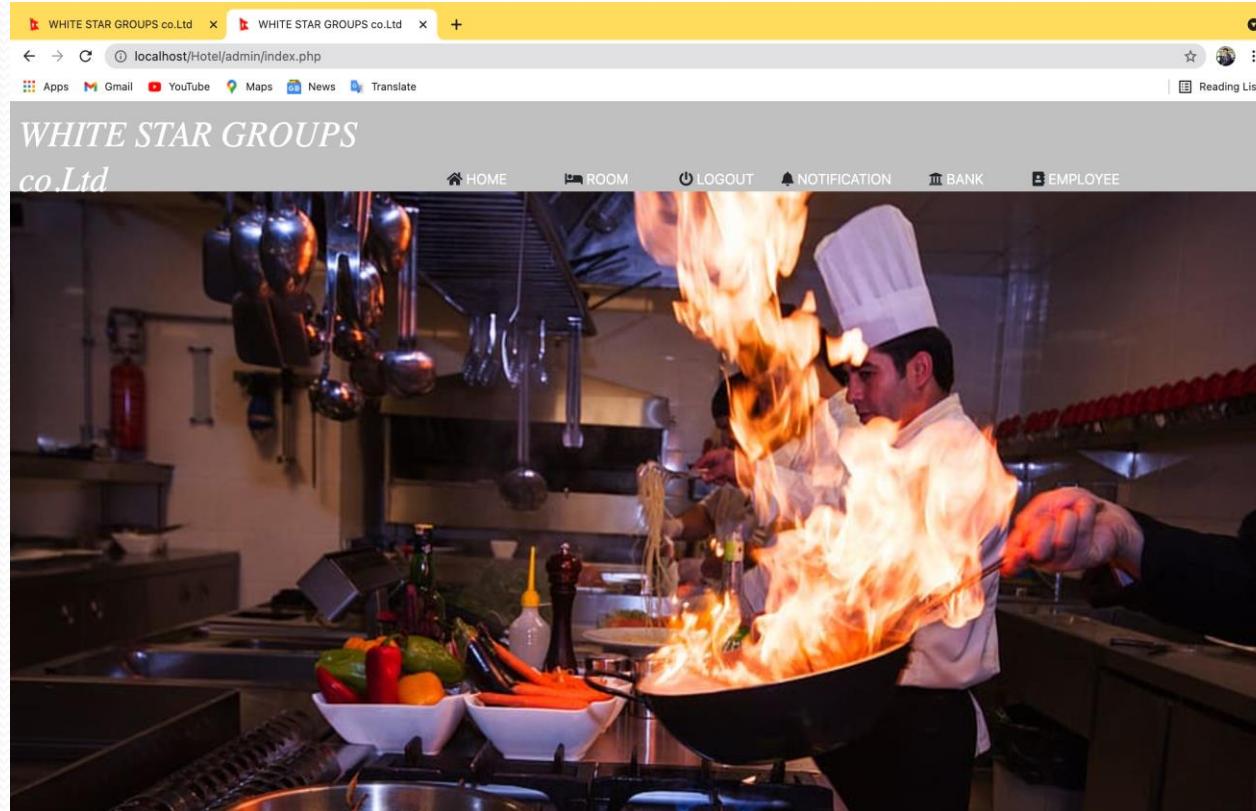
The above image depicts the contact us page of the project.

[14]



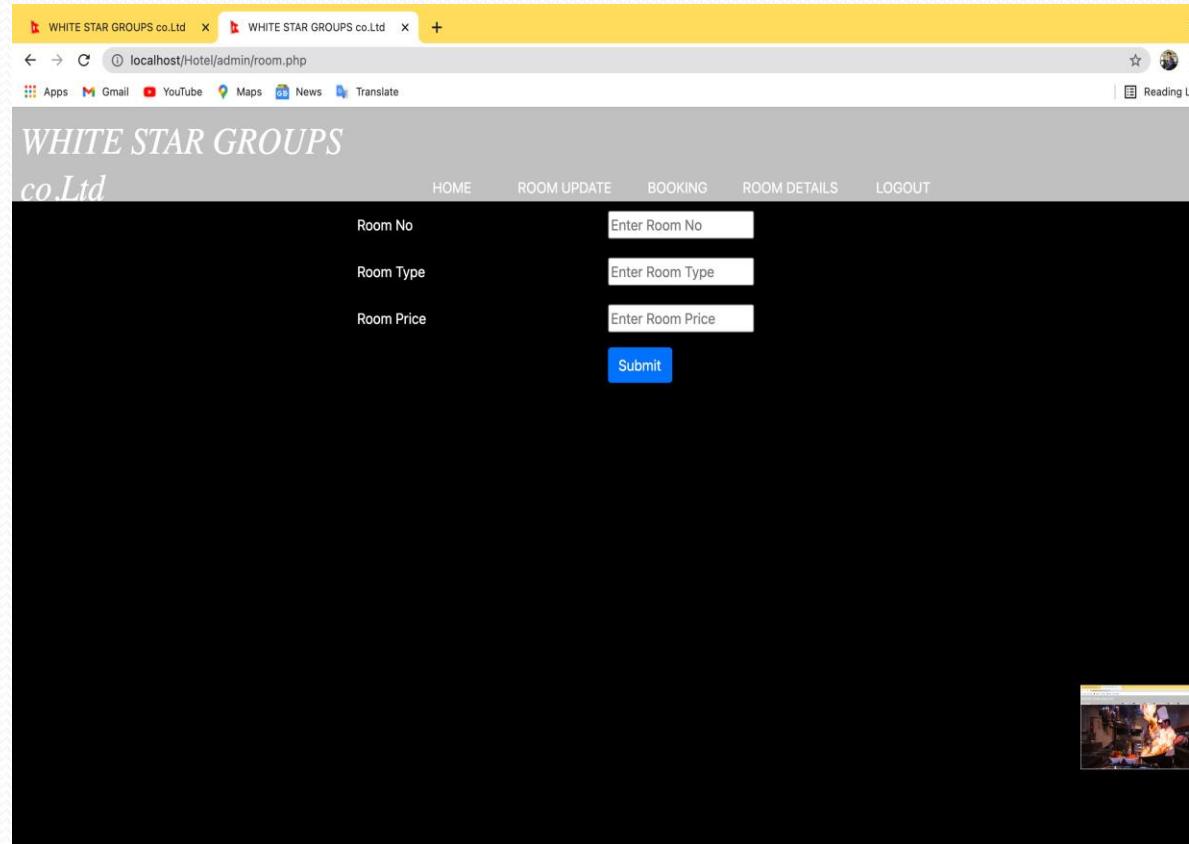
The above image depicts the user panel room images page of the project.

[15]



The above image depicts the Admin panel home page of the project.

[16]



The above image depicts the room update page of the project.

[17]

The screenshot shows a web browser window with two tabs open, both titled "WHITE STAR GROUPS co.Ltd". The active tab displays a table of customer booking details. The table has columns for Name, Adhar.No, City, District, State, Check-In Date, Check-Out Date, Airport Transfer, and Members. The data in the table is as follows:

Name	Adhar.No	City	District	State	Check-In Date	Check-Out Date	Airport Transfer	Members
shivam	5678998765	Mumbai	Mumbai	Maharashtra	2021-05-13	2021-05-22	10:00 AM	2
shivam	11234567	Mumbai	Mumbai	Maharashtra	2021-07-14	2021-07-13	10:00 AM	2
rajiv	11234567	Kolkata	Any Other District Within India	West Bengal	2021-07-21	2021-07-14	11:00 AM	2
raj	1123456789	Kolkata	Any Other District Within India	West Bengal	2021-07-14	2021-07-16	1:00 PM	2
vijay	11234567678	Kolkata	Any Other District Within India	West Bengal	2021-07-22	2021-07-24	1:00 PM	2
shivam	11234567	Kolkata	Any Other District Within India	West Bengal	2021-07-14	2021-07-06	11:00 AM	2
rajiv	11234567678	Any Other Location Within India	Any Other District Within India	West Bengal	2021-08-20	2021-08-27	11:00 AM	2
raju	11234567678	Any Other Location Within India	Any Other District Within India	West Bengal	2021-08-21	2021-08-20	11:00 AM	2

The above image depicts the customer details page of the project.

[18]

WHITE STAR GROUPS  
co.Ltd

Room.No	Room Type	Price	Status	Option	User Adhar.No
107	Queen Suite	₹ 25,000	Un Book	Check-Out	
105	Semi Deluxe Room	₹ 15,000	Un Book	Check-Out	
104	Window View Semi Deluxe Room	₹ 35,000	Un Book	Check-Out	

Enter Room Number  Delete Room ▲

The above image depicts the room record page of the project.

[19]

The screenshot shows a web browser window with two tabs open, both titled "WHITE STAR GROUPS co.Ltd". The active tab is "localhost/Admin/employee.php". The page has a yellow header bar with the company name. Below it, there's a navigation menu with links for "HOME", "RECORD", and "LOGOUT". The main content area contains form fields for entering employee information. The fields include:

- Name: A text input field.
- Designation: A text input field.
- Salary: A text input field.
- Dob: A date input field with a calendar icon.
- Doj: A date input field with a calendar icon.
- Gender: Radio buttons for "Male" and "Female".
- Phone.No: A text input field.
- Email: A text input field.

At the bottom right of the form is a blue button labeled "Add Employee".

The above image depicts the employee update page of the project.

[20]

The screenshot shows a web browser window with two tabs open, both titled "WHITE STAR GROUPS co.Ltd". The active tab displays a table of employee records. The table has columns for Name, Designation, Salary, Dob, Doj, Gender, Phone.No, and Email ID. Two rows of data are visible:

Name	Designation	Salary	Dob	Doj	Gender	Phone.No	Email ID
Shivam	Manager	6,80,000	2000-04-12	2025-07-18	male	8942803464	sr@gmail.com
raju	Chef	90,000	2021-08-11	2021-08-27	male	8942803467	raju123@gmail.com

Below the table are two buttons: "Enter Employee Name" and "Delete Employee ▲". The browser interface includes a navigation bar with back, forward, and search icons, as well as links for Apps, Gmail, YouTube, Maps, News, and Translate.

The above image depicts the employee record page of the project.

[21]

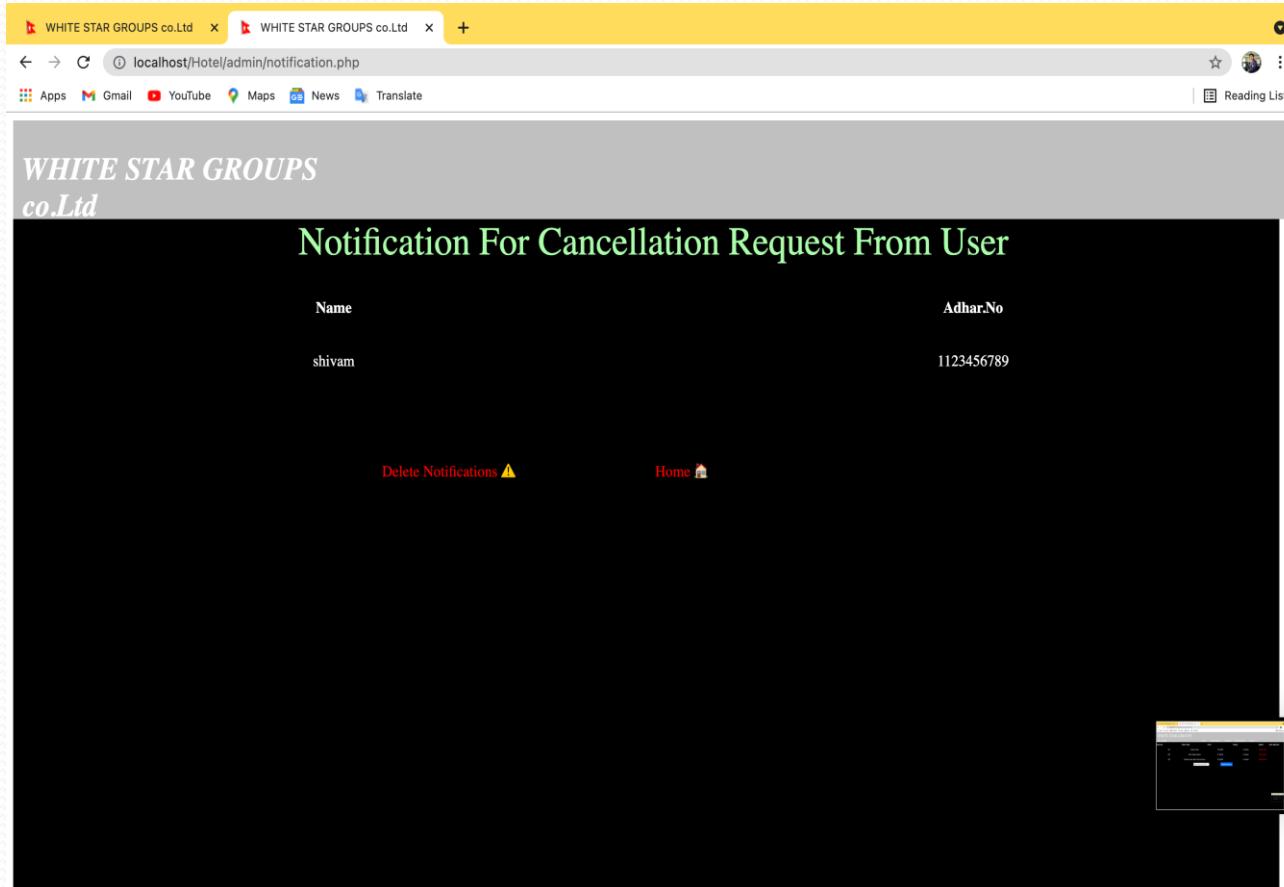
The screenshot shows a web browser window titled "WHITE STAR GROUPS co.Ltd" with the URL "localhost/Hotel/admin/view\_user.php". The page is titled "Admin\_PANEL" and "Activate Account". It displays a table of user information:

SL NO	NAME	EMAIL	PHONE	GENDER	ADDHAR	ADDRESS	OPTIONS
1	shivam	rickroy094@gmail.com	8942803468	male	123456789982	kolkata	<a href="#">Deactivate Account</a>
2	sam	sam@gmail.com	8942803467	male	123456789012	durgapur	<a href="#">Deactivate Account</a>
3	rajiv	rajiv@gmail.com	9428034698	male	123456789012	Asansol	<a href="#">Deactivate Account</a>
4	raju	raju123@gmail.com	8942803467	male	123456789012	Asansol	<a href="#">Deactivate Account</a>

A large blue circular graphic with icons for a computer monitor, a smartphone, and a shield is overlaid on the table. The bottom of the page features a grey footer bar with the text "©2021 Powered by TEXAS BANK".

The above image depicts the admin panel Net-banking activate user account page of the project.

[22]



The above image depicts the admin panel notification page of the project.

[23]

The screenshot shows the phpMyAdmin interface for a MySQL database named 'WHITE STAR GROUPS co.Ltd'. The left sidebar displays a tree view of the database schema, including tables like accounts, admin, transaction, users, cancel, chatbot, message, employee, fosdb, information\_schema, mysql, performance\_schema, phpmyadmin, ratingsystem, stars, test, user, and form. The 'form' table is currently selected and highlighted in grey.

The main panel shows the 'Browse' tab for the 'form' table. The results section displays 8 rows of data, each representing a booking record. The columns are: id, name, Destination, id\_no, address, city, district, state, email, cdate, codate, pickup, and member. The data includes entries for users like shivam and rajiv booking at various locations such as Grand, Vivanta Grand, and Asansol, with details like destination, address, city, district, state, email, and booking dates/times.

	id	name	Destination	id_no	address	city	district	state	email	cdate	codate	pickup	member
<input type="checkbox"/>	83	shivam	Grand ,( Mumbai )	5678998765	kolkata	Mumbai	Mumbai	Maharashtra	sam123@gmail.com	2021-05-13	2021-05-22	10:00 AM	2
<input type="checkbox"/>	166	shivam	Grand ,( Mumbai )	11234567	kolkata	Mumbai	Mumbai	Maharashtra	sam123@gmail.com	2021-07-14	2021-07-13	10:00 AM	2
<input type="checkbox"/>	167	rajiv	Grand ,( Mumbai )	11234567	kolkata	Kolkata	Any Other District Within India	West Bengal	rajiv123@gmail.com	2021-07-21	2021-07-14	11:00 AM	2
<input type="checkbox"/>	168	raj	Vivanta Grand ,( Kolkata )	1123456789	kolkata	Kolkata	Any Other District Within India	West Bengal	sam123@gmail.com	2021-07-14	2021-07-16	1:00 PM	2
<input type="checkbox"/>	169	vijay	Vivanta Grand ,( Kolkata )	11234567678	kolkata	Kolkata	Any Other District Within India	West Bengal	vijay123@gmail.com	2021-07-22	2021-07-24	1:00 PM	2
<input type="checkbox"/>	170	shivam	Grand ,( Mumbai )	11234567	kolkata	Kolkata	Any Other District Within India	West Bengal	sam123@gmail.com	2021-07-14	2021-07-06	11:00 AM	2
<input type="checkbox"/>	171	rajiv	Grand ,( Mumbai )	11234567678	Asansol	Any Other Location Within India	West Bengal	rickroy094@gmail.com	2021-08-20	2021-08-27	11:00 AM	2	

The above image depicts the user booking record of the project.

[24]

The screenshot shows the phpMyAdmin interface for a database named 'userregistration'. The left sidebar lists various databases and tables, including 'accounts', 'admin', 'transaction', 'users', 'cancel', 'New', 'cancel', 'chatbot', 'New', 'chatbot\_hints', 'message', 'employee', 'New', 'record', 'fosdb', 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', 'ratingssystem', 'stars', 'test', 'user', 'New', 'form', 'userregistration', 'New', and 'usertable'. The 'usertable' table is selected, and its data is displayed in a grid. The grid has columns for 'name', 'password', 'Email', and 'Mobile'. The data shows seven registered users:

	name	password	Email	Mobile
1	md.munna sheikh	123	munna@gmail.com	9887654322
2	raj	1234	rickroy094@gmail.com	9474485973
3	raja	1234	raja12@gmail.com	9987654321
4	rajiv	1234	rickroy094@gmail.com	9474485973
5	raju	1234	raju123@gmail.com	8942803456
6	sam	1256	rickroy094@gmail.com	9474485973
7	shivam	1234	rickroy094@gmail.com	8942803468

Below the grid, there are buttons for 'Edit', 'Copy', 'Delete', 'Export', and 'Import'. The bottom section of the interface includes buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', 'Create view', and a 'Bookmark this SQL query' button.

The above image depicts the registered users record of the project.

[25]

The screenshot shows the phpMyAdmin interface for a database named 'admin'. The left sidebar lists various databases and tables, including 'room' which is currently selected. The main area displays the contents of the 'room' table with the following data:

	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	<b>id</b>	<b>room_no</b>	<b>room_type</b>	<b>room_price</b>	<b>status</b>
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	33	107	Queen Suite	₹ 25,000	Un Book
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	35	105	Semi Deluxe Room	₹ 15,000	Un Book
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	39	104	Window View Semi Deluxe Room	₹ 35,000	Un Book

Below the table, there are buttons for 'Check all', 'With selected:', and 'Edit', 'Copy', 'Delete', 'Export' operations. The bottom section contains 'Query results operations' with links for Print, Copy to clipboard, Export, Display chart, and Create view. It also includes a 'Bookmark this SQL query' section with a 'Label:' input field and a checkbox for 'Let every user access this bookmark'.

The above image depicts the room records of the project.

[26]

The screenshot shows the phpMyAdmin interface for a MySQL database named 'chatbot'. The left sidebar lists various databases and tables, including 'adminregistration', 'bank', 'chatbot', 'chatbot\_hints', 'employee', 'fosdb', 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', 'ratingssystem', 'stars', 'test', 'user', and 'userregistration'. The 'chatbot\_hints' table is selected, and its data is displayed in a grid format.

The table has two columns: 'id' and 'question'. The 'id' column contains integers from 1 to 18. The 'question' column contains user queries, and the 'reply' column contains the bot's responses. The data is as follows:

id	question	reply
1	HillHello!Holalhillhelolhola	Hello good morning sir , welcome to the White Star...
2	how to book hotel rooms!what are the procedure fo...	It's very easy just fill in the below details & cl...
3	what is your namellwhats your name	My name is Admin Bot
4	can i cancel my booking after my booking confirmat...	yeah , sure u can but the registration fees u paid...
5	where are your from!where are your from	I m from India
6	ByellSee you later!Have a Good Dayllbye	Sad to see you are going. Have a nice day
7	is there any outdoor pool	we have an outdoor and indoor pool
8	do you offer breakfast	yes we offer breakfast *standard charges applied.
9	i wanted to enquire about the room reservation	yes plz when you are planning to visit sir
10	tomorrow!today	a room for two sir
11	yes	sir would you prefer with two twin bed or a double...
12	no	ok sir no problem , you can book your room and sel...
13	either of them would do	and sir the accomodation is for how many days
14	1 night!2 night!3 night!4 night!5 night!6 nig...	sir what kind of rooms will you prefer deluxe or s...
15	what are the prices for both	sir deluxe is 5000 Rs and semi-deluxe is 3000 Rs
16	i would prefer a deluxe room	ok sir thank you
17	i would prefer a semi-deluxe room	ok sir thank you
18	have you booked the room	No sir , you have to do it manually but your respo...

The above image depicts the chat-bot question & answers record of the project.

[27]

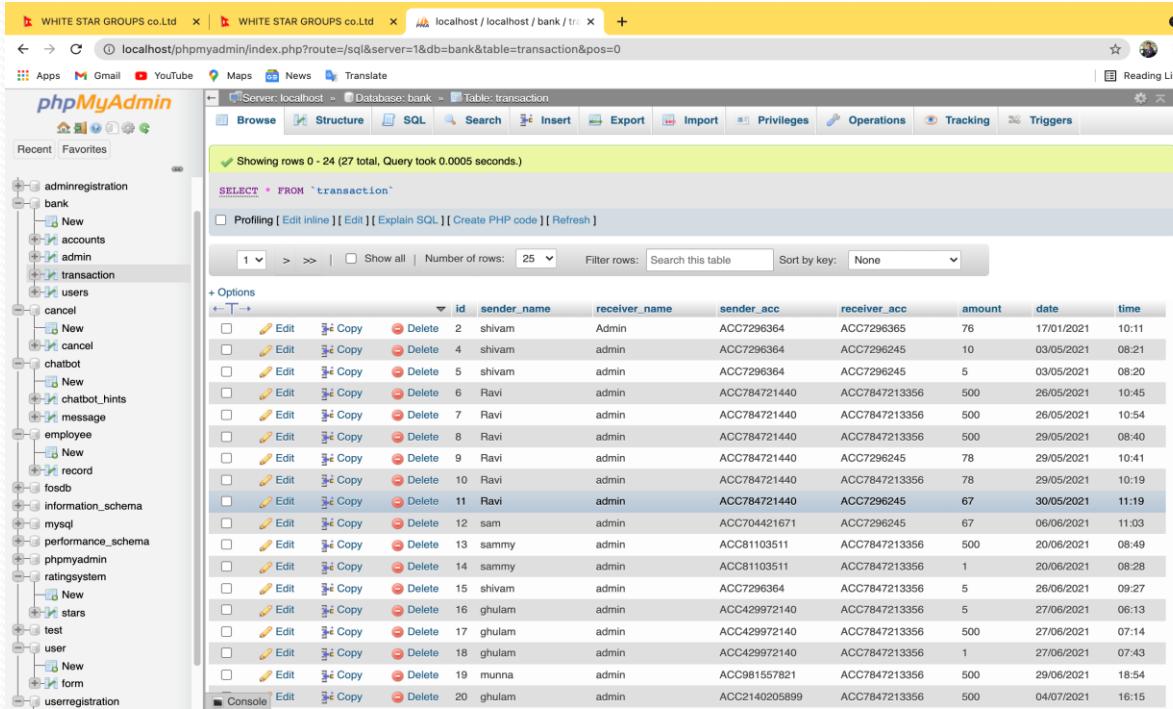
The screenshot shows the phpMyAdmin interface for a database named 'employee'. The left sidebar lists various databases and tables, including 'adminregistration', 'bank', 'cancel', 'chatbot', 'message', 'employee', 'fosdb', 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', 'ratingssystem', 'test', 'user', and 'userregistration'. The 'employee' table is selected, and its data is displayed in a grid format. The grid has columns for id, name, designation, salary, dob, doj, gender, phone, and email. Two rows of data are visible:

id	name	designation	salary	dob	doj	gender	phone	email
28	Shivam	Manager	6,80,000	2000-04-12	2025-07-18	male	8942803464	sr@gmail.com
31	raju	Chef	90,000	2021-08-11	2021-08-27	male	8942803467	raju123@gmail.com

Below the grid, there are buttons for 'Edit', 'Copy', 'Delete', and 'Export'. The 'Query results operations' section includes options for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. A 'Bookmark this SQL query' section allows users to save the current query with a label and a checkbox for 'Let every user access this bookmark'.

The above image depicts the employee records of the project.

[28]



The above image depicts the transaction records of the project.

[29]

The screenshot shows the phpMyAdmin interface for a MySQL database named 'bank'. The left sidebar lists various databases and tables, including 'adminregistration', 'bank' (which contains 'New', 'accounts', 'admin', 'transaction', and 'users'), 'cancel', 'chatbot', 'employee', 'fosdb', 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', 'ratingystem', 'stars', 'test', 'user', and 'userregistration'. The 'users' table is selected in the 'bank' database. The main panel displays the results of the SQL query 'SELECT \* FROM `users`'. The results show four rows of data:

	id	name	phone	email	pwd	gender	adhar	address
<input type="checkbox"/>	1	shivam	8942803468	rickroy094@gmail.com	123456789	male	123456789982	kolkata
<input type="checkbox"/>	3	sam	8942803467	sam@gmail.com	123456789	male	123456789012	durgapur
<input type="checkbox"/>	22	rajiv	9428034698	rajiv@gmail.com	123456789	male	123456789012	Asansol
<input type="checkbox"/>	23	raju	8942803467	raju123@gmail.com	12345678	male	123456789012	Asansol

Below the table, there are buttons for 'Check all', 'With selected:', and 'Export'. The bottom section includes links for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. There are also buttons for 'Bookmark this SQL query' and 'Console'.

The above image depicts the active net-banking user records of the project.

[30]

The screenshot shows the phpMyAdmin interface for a MySQL database named 'bank'. The left sidebar displays a tree view of databases and tables, with 'accounts' selected under the 'bank' database. The main area shows the 'accounts' table with 13 rows of data. The columns are: id, user\_id, acc\_no, balance, date, and status. The data is as follows:

	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	<a href="#">id</a>	<a href="#">user_id</a>	<a href="#">acc_no</a>	<a href="#">balance</a>	<a href="#">date</a>	<a href="#">status</a>
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	1	1	ACC7296364	252	17/01/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	2	3	ACC800017039	20000	03/05/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	3	4	ACC784721440	18277	26/05/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	4	13	ACC704421671	19933	06/06/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	5	14	ACC81103511	19499	20/06/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	6	15	ACC429972140	19494	27/06/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	7	16	ACC981557821	19500	29/06/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	8	17	ACC2140205899	18799	04/07/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	9	18	ACC1819300432	19500	11/07/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	10	20	ACC102326468	19500	12/07/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	11	21	ACC1042124599	19500	13/07/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	12	22	ACC1164984335	19500	15/08/2021	1
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	13	23	ACC178587865	19500	16/08/2021	1

The above image depicts the net-banking user account records of the project.

[31]

The screenshot shows the phpMyAdmin interface for a database named 'cancel'. The left sidebar lists various databases and tables, including 'cancel' which is currently selected. The main area displays the contents of the 'cancel' table. The table has columns: id, name, and id\_no. One record is shown with the values: id = 12, name = shivam, and id\_no = 1123456789. Below the table, there are sections for 'Query results operations' (Print, Copy to clipboard, Export, Display chart, Create view) and 'Bookmark this SQL query' (Label input field, Let every user access this bookmark checkbox). At the bottom, there is a 'Console' section.

	id	name	id_no
	12	shivam	1123456789

The above image depicts the booking cancel records of the user in the project.

## ***Unit Testing Project Modules:-***

Tested By:	Shivam Roy
Test Type	Unit Testing
Test Case Number	1
Test Case Name	User Identification
Test Case Description	The user should enter his/ her accurate user id and password so that he/she is able to go for the further options & log in to the system. The test case will check the application for the same since a user can only login with the correct user id and password.
Item(s) to be tested	
1	Verification of the user id and password with the record in the database.
Specifications	
Input	Expected Output/Result
1) Correct User id and password 2) Incorrect Id or Password	1) Successful login 2) Failure Message

The above image depicts the unit testing of the project modules.

## **FUTURE ASPECT:-**

In future our software could be further enhanced by providing our customers with the facility of booking more than one rooms at the same time and keeping his/her customer\_id the same.

Apart from that in future our software can also be used for hotels that provide both lodging and fooding facilities, in such case our software would also keep a record of food supplements in our database.

In other words our software would provide restaurant management. The inclusion of these features would definitely make our software highly demanding and would be a grand success in practical field.

## **CONCLUSION:-**

*It has been a matter of immense pleasure, honour and challenge to have this opportunity to take up this project and complete it successfully.*

*While developing this project I have learnt a lot about hotel management, I have also learnt how to make it user friendly (easy to use and handle) by hiding the complicated parts of it from the users.*

*During the development process I studied carefully and understood the criteria for making a software more demanding, I also realized the importance of maintaining a minimal margin for error & time management.*

## **BIBLIOGRAPHY:-**

*Source obtained from:-*

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- [www.wikipedia.com](http://www.wikipedia.com)