

CSE 408 Project Documentation

Hotel and Air Ticket Reservation System

Prepared By

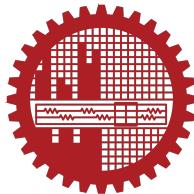
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1 Introduction

1.1 Overview

This document defines the applications, functionalities and user manual of the project 'Hotel and Air Ticket Reservation System' for CSE 408: Software Development course. The goal of this document is to help the users and stakeholders to understand and use this project easily.

'Hotel and Air Ticket Reservation System' is a website to connect user ends with both Hotel and Air Companies under one roof. This website enables people to book hotel rooms and flights with ease. The hotel and air company manager can add and update their respective company's profile and facilities.

1.2 Goals and Objectives

The main goals of 'Hotel and Air Ticket Reservation System' are:

- User can search for hotels of any place and flights for any routes. After search there will be a list of hotels or flights with corresponding search filter.
- User can compare and sort the hotels and flights among them depending on any search filter such as, price, date, time.
- User can book hotel rooms and flights through their credit card. After booking, user will get the itinerary via the email address as a pdf format.
- User can manage their bookings from profile and cancel any booking at any time according to the cancellation policy of that booking.
- Hotel and Air Company admin can manage their details from their profile.
- Hotel admin can add and edit any room and facility.
- Air Company can add and edit any flight, airplane details, route and facility.
- Hotel and Air Company admin can see the bookings of users which were completed through this website.
- Hotel and Air Company admin can see the total revenue they have received from this website with graphical representation.
- Hotel and Air Company admin can cancel any booking at any time. This will notify the user(s) related to that booking.
- The super admin of this website can monitor the data flow and authenticate registrations and payments.

1.3 Scenarios

Scenario 1: Mike Mike is a very busy person. He is planning for a trip for the next weekend but he does not have enough time to book air ticket by going to the office of air company crossing the traffic jam of Dhaka city. So, he logs in to this website and book his desired air flight in a minute.

Scenario 2: John John will stay in India for next week. He wants to confirm a hotel room but there is not any way to book over the phone since payment cannot be done in this method. So, he logs in to this website and books a hotel room in India.

Scenario 3: Hotel Subarna Abraham is the owner of the Hotel Subarna. He wants to digitize the reservation system of his hotel as well as get an exposure online. So, he creates a account in this website and adds the rooms and facilities of his hotel.

1.4 Major Milestones of the project

According to the course outline of CSE 408, we created this milestones from week 3 to week 10.

Week	Deliverables
3	Database implementation and Login Subsystem
4	Data input and integration of the database
5	Search subsystem implementation with user interface
6	Booking subsystem implementation – User end
7	Booking subsystem implementation – Admin end
8	Input Subsystem implementation – Hotel and Airlines end
9	Cancellation of booking subsystem implementation
10	Final User Interface

Figure 1: Milestone per week

2 Architecture and Design

2.1 Actors

Hotel and Air Ticket Reservation System project will be used by 3 type of actors:

User: can search, book and cancel any hotel room and flight ticket.

Hotel/Air Company Manager: can add, edit information about services and facilities and confirm or cancel any booking.

Admin: can make any change, authorize any registration and payment and maintain the whole website.

2.2 Subsystems

This whole project can be divided into 5 major subsystems. They are:

1. Login
2. Search
3. Booking
4. Input
5. Cancellation

2.3 Use Case Diagram

Use Case diagram of major subsystems are given below:

2.3.1 Login Subsystem

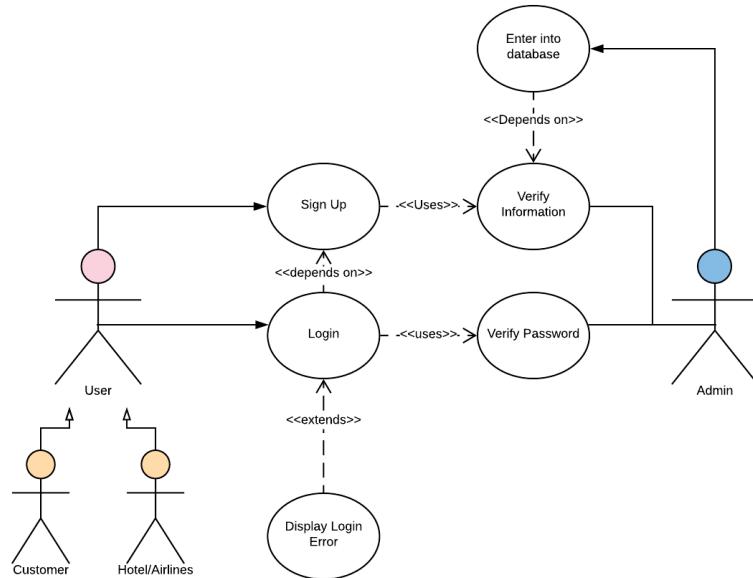


Figure 2: Use Case diagram of Login Subsystem

2.3.2 Search Subsystem

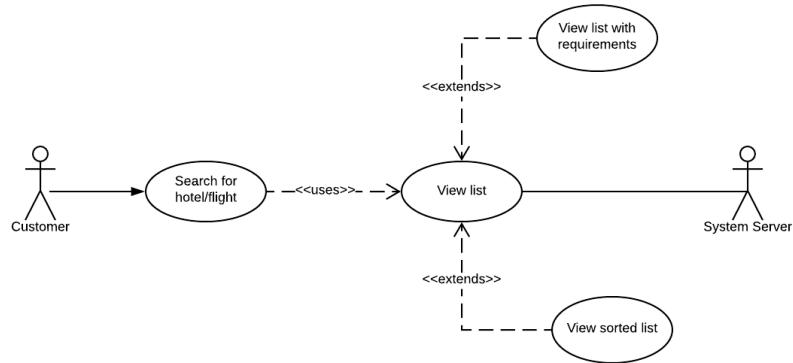


Figure 3: Use Case diagram of Search Subsystem

2.3.3 Booking Subsystem

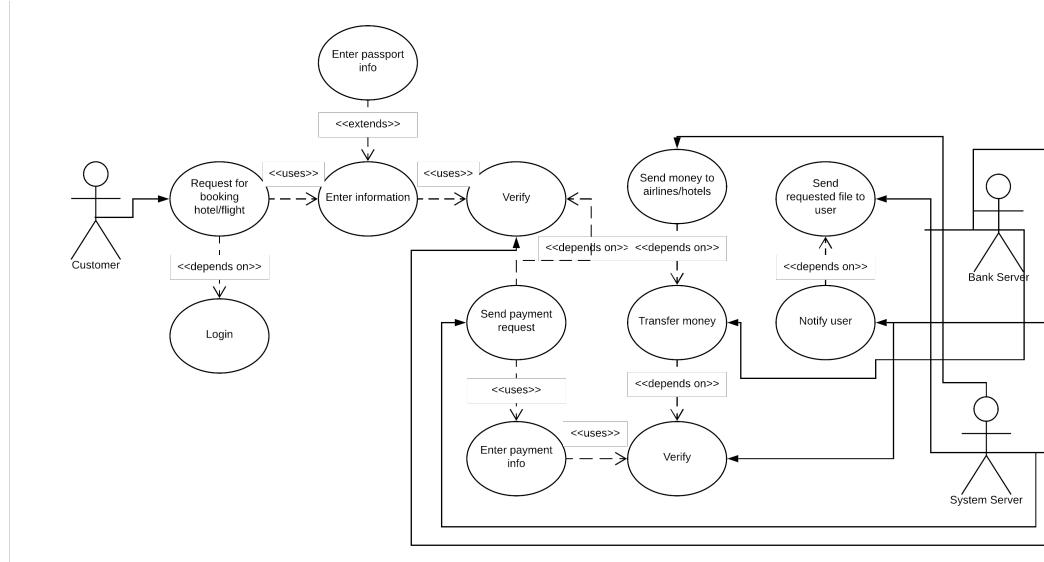


Figure 4: Use Case diagram of Booking Subsystem

2.3.4 Input Subsystem

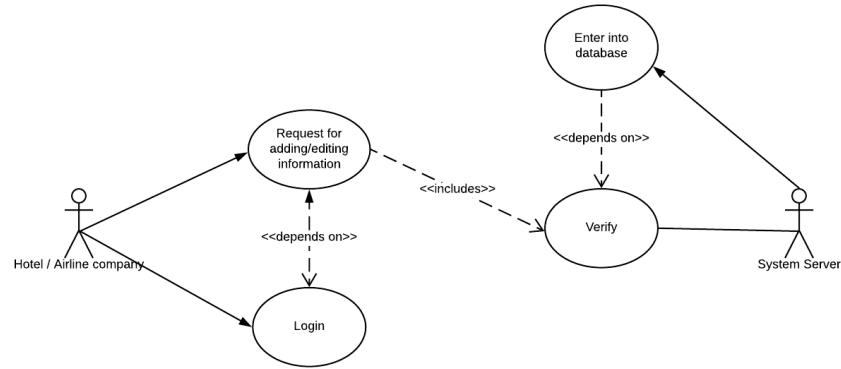


Figure 5: Use Case diagram of Input Subsystem

2.3.5 Cancellation Subsystem

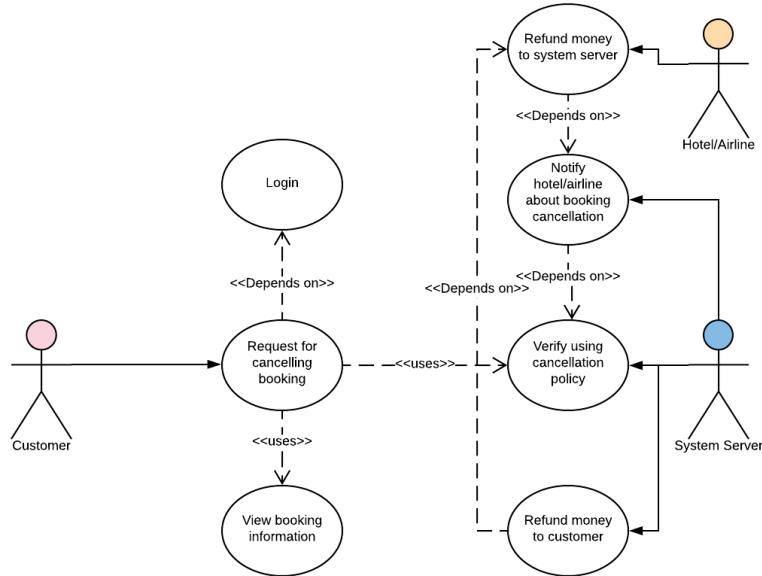


Figure 6: Use Case diagram of Cancellation Subsystem

2.4 Entity Relationship Diagram

The entity relationship diagram of the database is shown below:

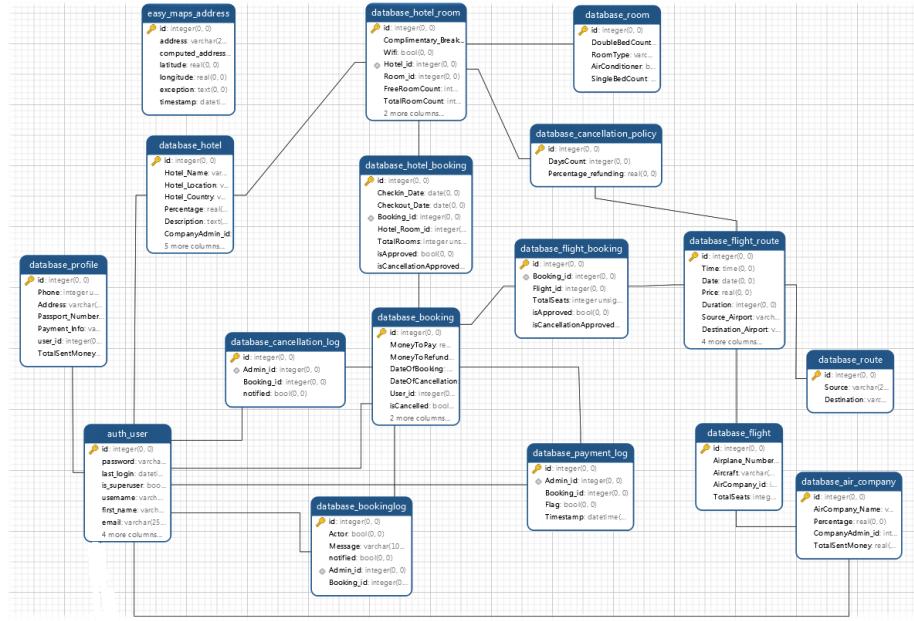


Figure 7: Entity Relationship Diagram

3 User Guide

3.1 As General User

3.1.1 Registration

User has to complete the registration process via filling up this form. It is mandatory for the user to fill up the form with true information and agree the terms and conditions to proceed further.

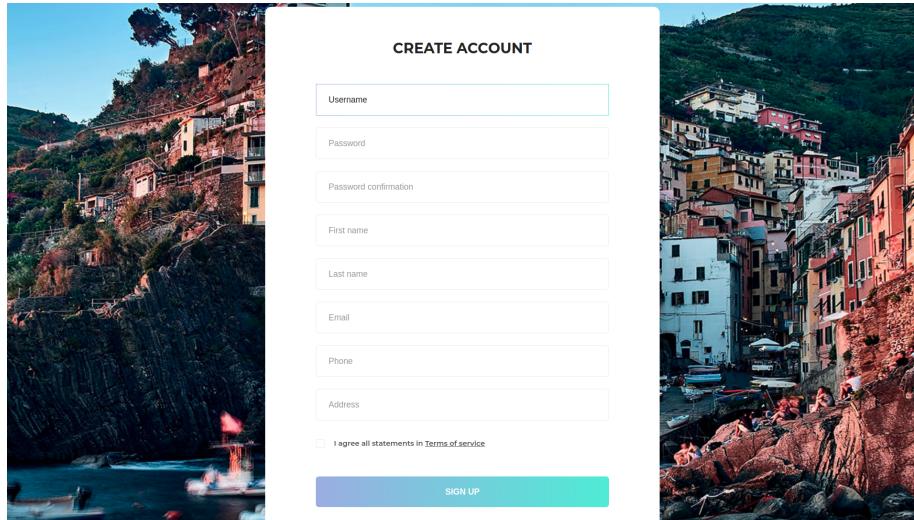


Figure 8: Registration Form

3.1.2 Login

After completing registration, user can log in with username and password.

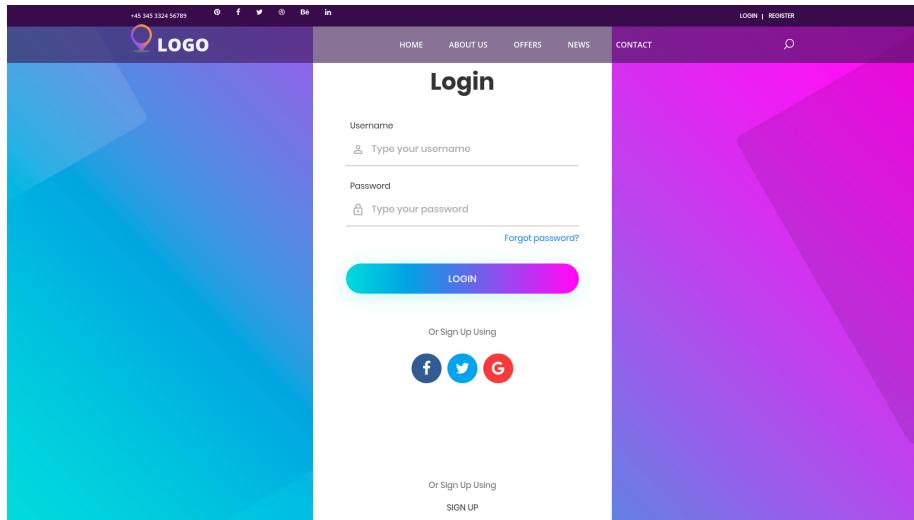


Figure 9: Login Form

3.1.3 Homepage

After logging in, user will get a home page like Figure 10 and 11



Figure 10: Homepage



Figure 11: Homepage

3.1.4 Search from homepage

After scrolling down, user will get search options for hotel and flight with 2 tabs. By default, 'Hotel' tab is selected. User can choose any tab just by clicking. Filling destination place and picking check in, check out date, room and adult number, user can search for hotel. By default, the check in date is present date, check out date is the very next day, room and adult number is 1. See Figure 12.

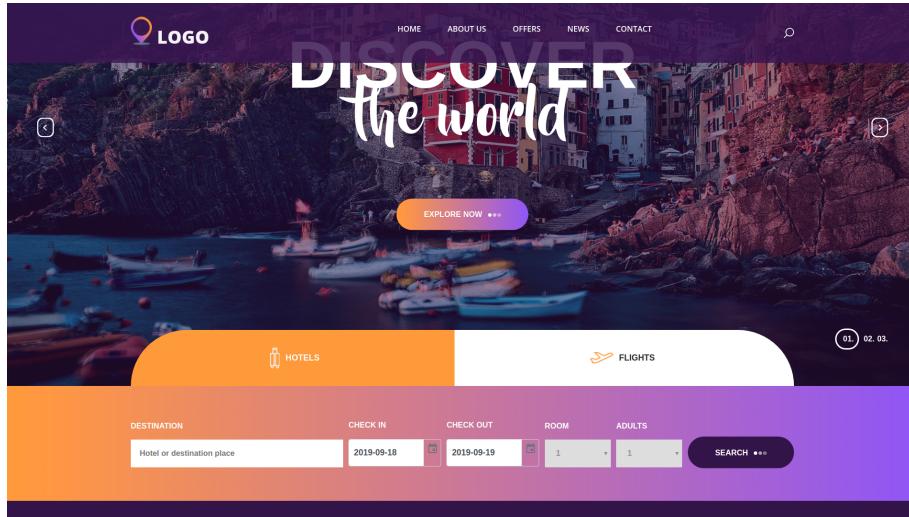


Figure 12: Homepage with search option selecting Hotel tab

Selecting 'Flight' tab, user can search for flights filling up the From, To location (city or airport name will work too), picking up Depart date and selecting adult and child number. See Figure 13

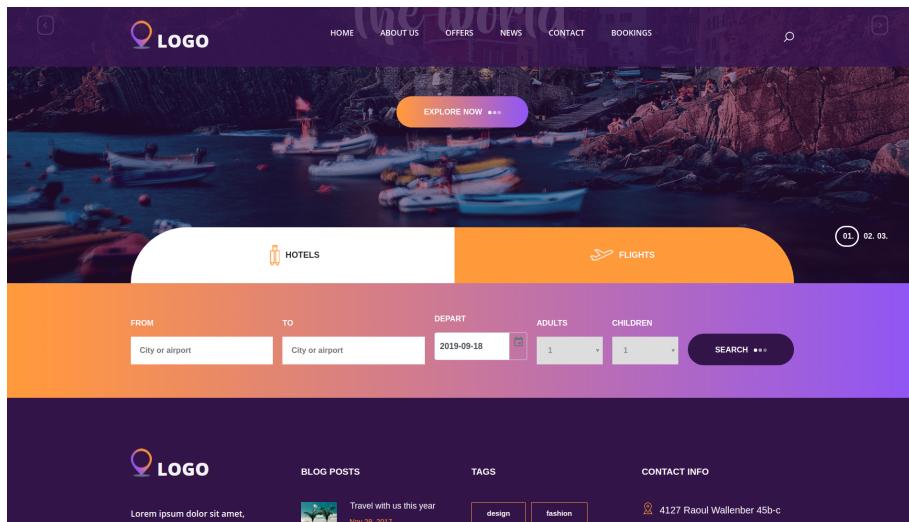


Figure 13: Homepage with search option selecting Flight tab

3.1.5 Search Result

Result of search for hotel will be like Figure 14 and 15

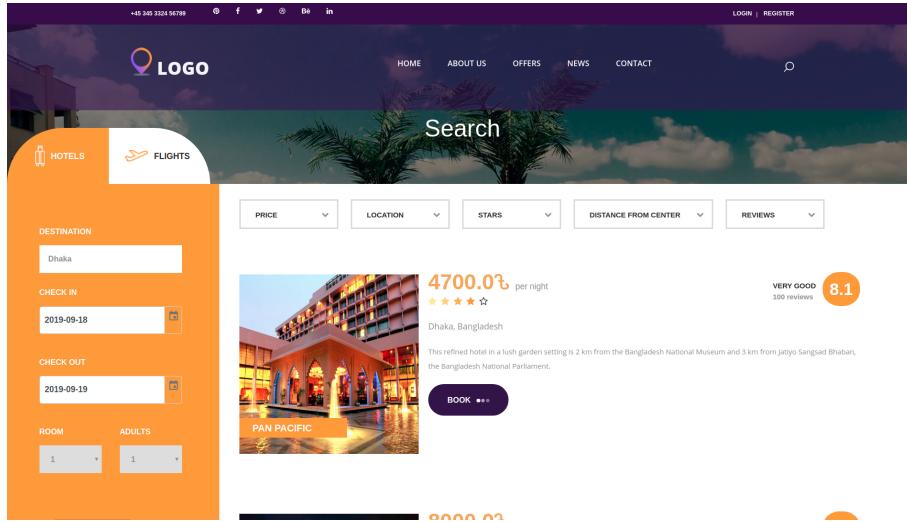


Figure 14: Search result for hotel

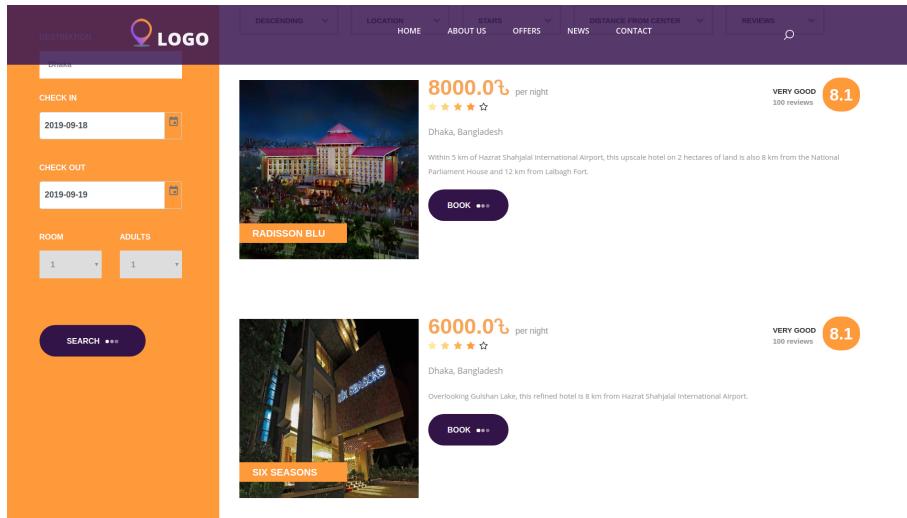


Figure 15: Search result for hotel

Result of search for flight will be like Figure 16

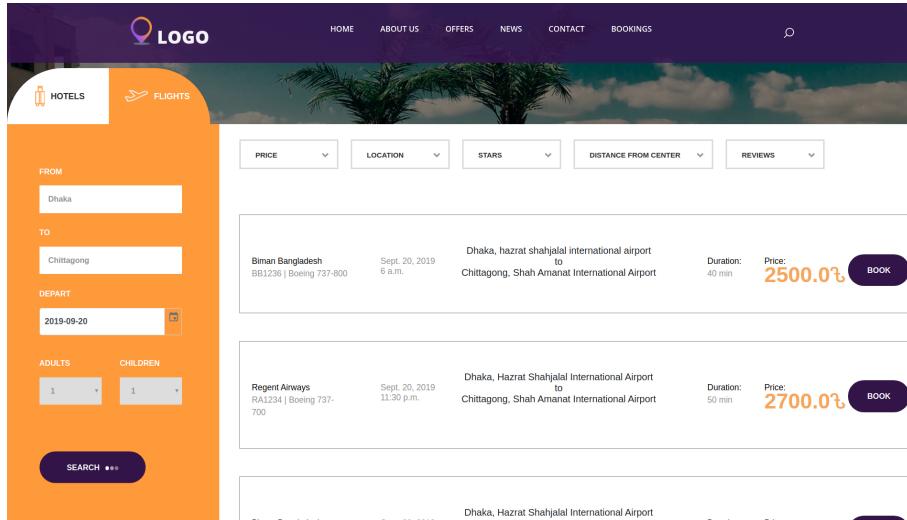


Figure 16: Search result for flight

3.1.6 Filter on Search Result

User can apply filter on price, location, stars, distance from center, reviews. For descending order in price, the search result is shown in Figure 17

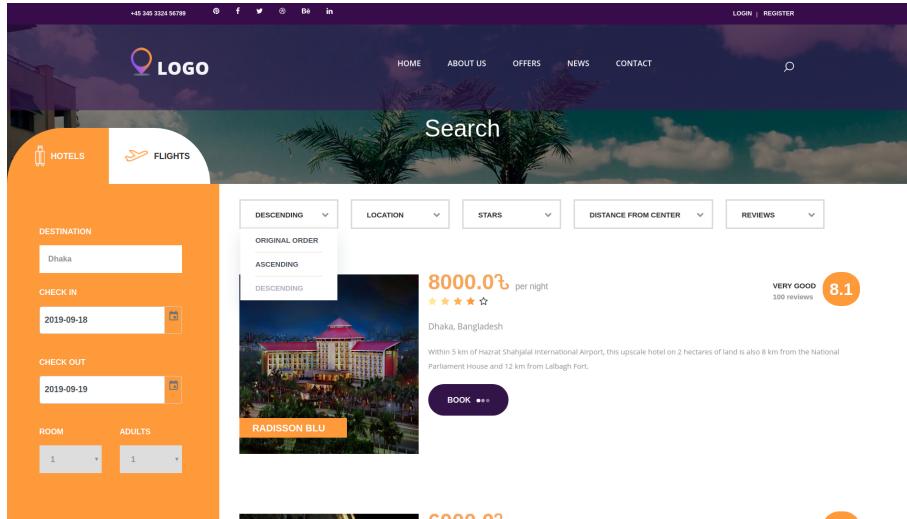


Figure 17: Filer on search result

3.1.7 Choosing a Hotel

If user click on **Book** button of his/her desired hotel, he/she will be redirect to a page like Figure 18 (In this case, 'Pan Pacific Sonargaon' was chosen).

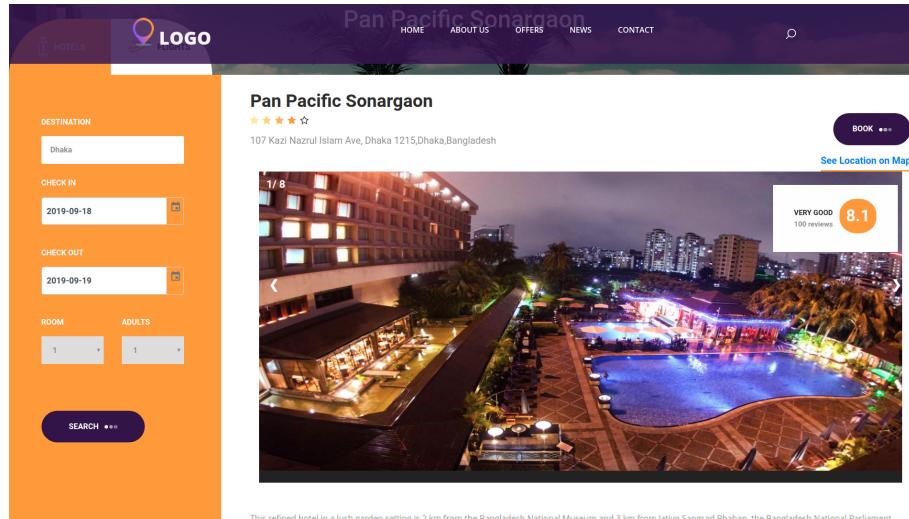


Figure 18: Result of choosing Pan Pacific Sonargaon

After scrolling down, user will get to see the rooms of that hotel like Figure 19

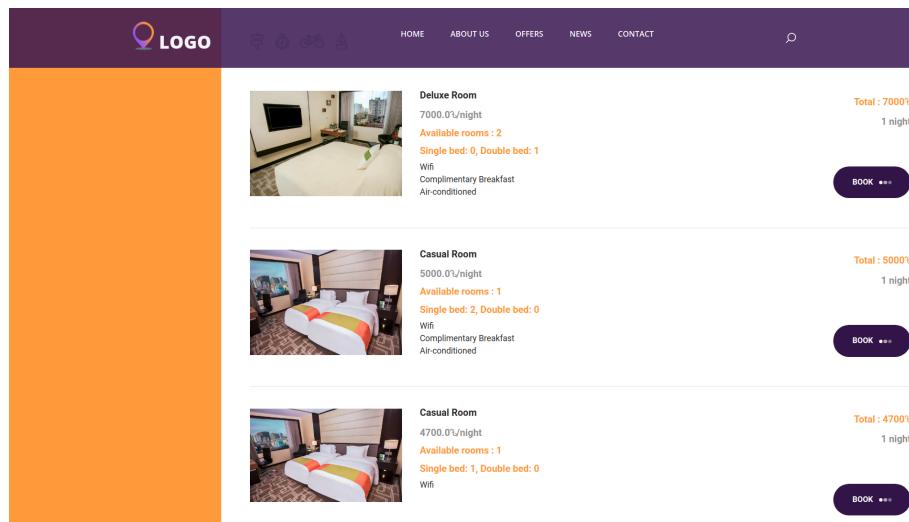


Figure 19: List of rooms of the selected hotel

By scrolling down more, user can see the location in map of that hotel which will help him/her to decide.

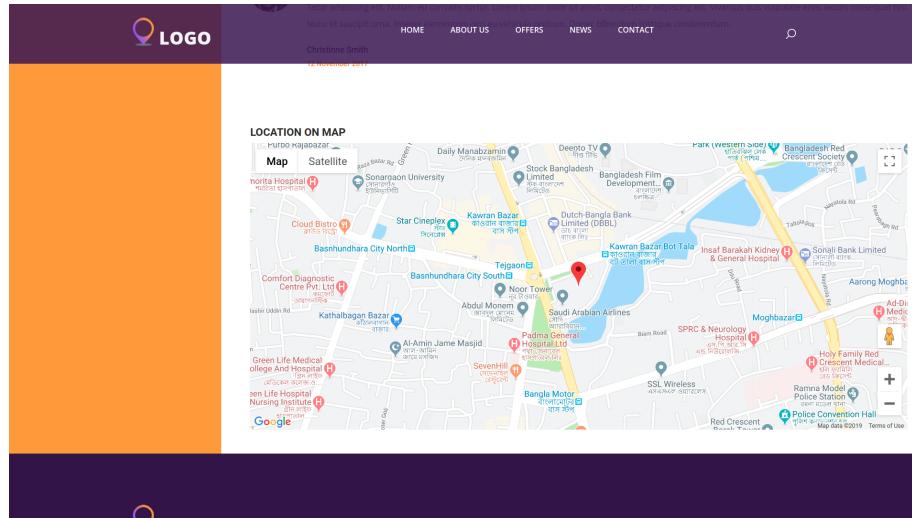


Figure 20: Location of selected hotel in map

3.1.8 Choosing a Room

After clicking on 'Book' button on the room (Figure 19, user will be redirected to the page like Figure 21 where he/she can see the details and the pictures of the room .

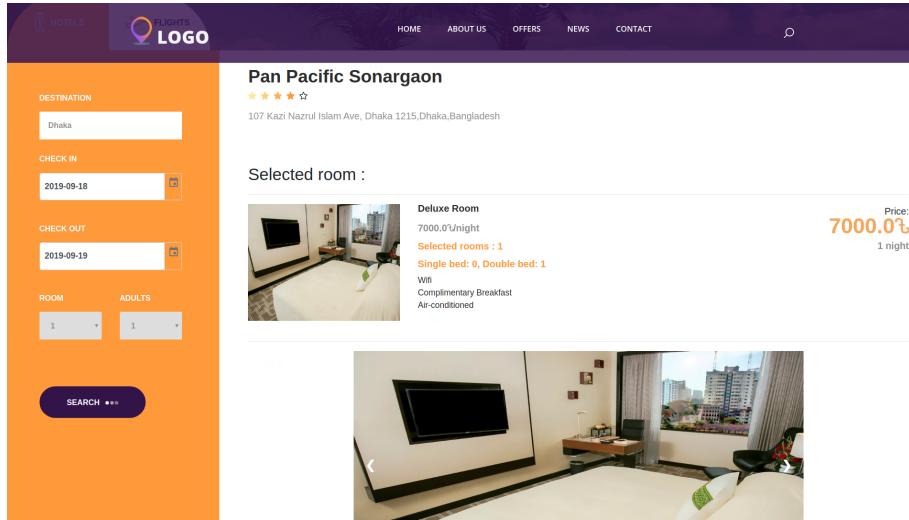


Figure 21: Details of selected room

3.1.9 Booking the Desired Room or Flight

If user wants to book the room, he/she will get the form for confirming booking like Figure 22 after scrolling down the page of Figure 21. In case of flight, user can get this page just after clicking the **Book** button of the desired flight in Figure 16.

The screenshot shows a 'CONFIRM BOOKING' form. It has fields for 'FIRST NAME' (Enter your first name), 'LAST NAME' (Enter your last name), 'E-MAIL' (E-mail), and 'PHONE NO.' (Phone no.). A 'CONFIRM BOOKING' button is at the bottom.

Figure 22: Initial booking form

After filling up the form and clicking on **Confirm Booking** button, user will be redirected to the page for payment form like Figure 23.

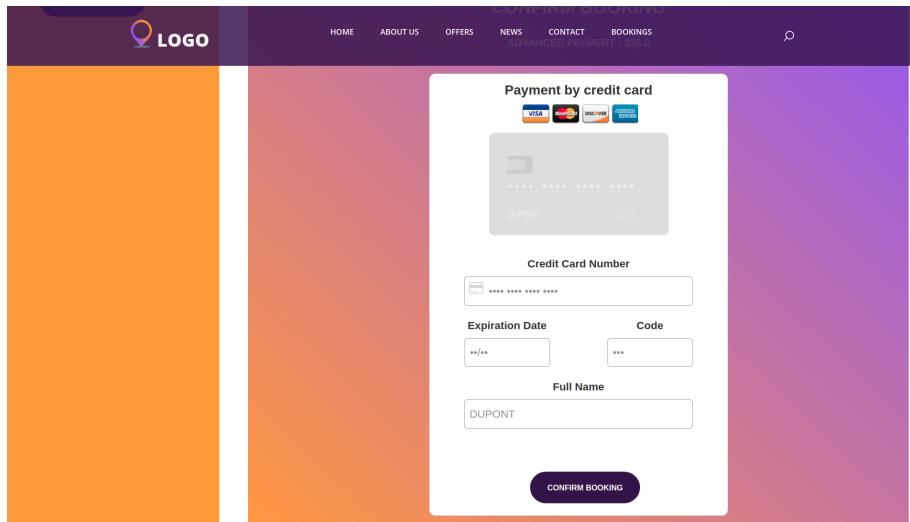


Figure 23: Payment form

User has to fill up the payment form with valid card information. Card validity is checked dynamically and user can proceed only if the payment information are correct. After completing payment, user will see the message *ROOM SUCCESSFULLY BOOKED* like Figure 24. Within a few minutes, user will get an email from our website server containing a pdf with the itinerary.

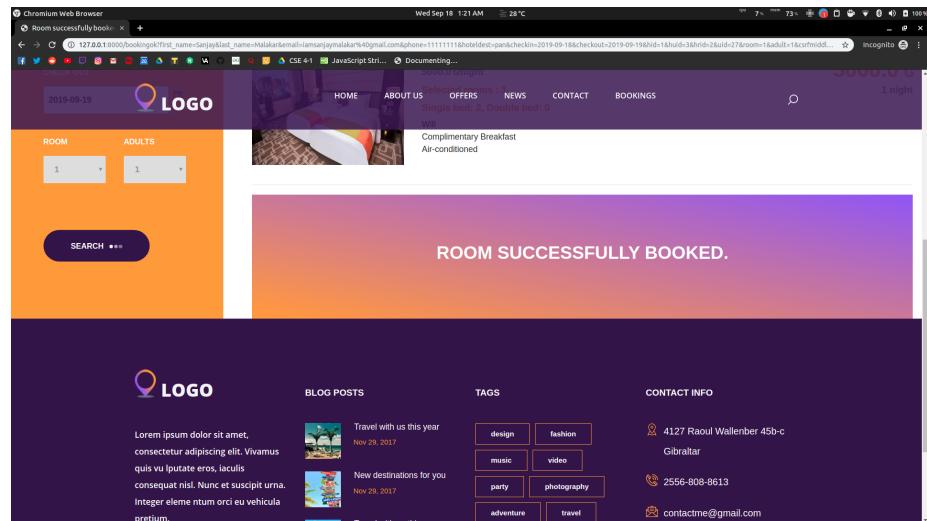


Figure 24: Confirmation of Booking

3.1.10 User Profile

- Edit Profile

Figure 25: Edit Profile of User

- Change Password

CHANGE PASSWORD

OLD PASSWORD:

 old password

NEW PASSWORD:

YOUR PASSWORD CAN'T BE TOO SIMILAR TO YOUR OTHER PERSONAL INFORMATION.
 YOUR PASSWORD MUST CONTAIN AT LEAST 8 CHARACTERS.
 YOUR PASSWORD CAN'T BE A COMMONLY USED PASSWORD.
 YOUR PASSWORD CAN'T BE ENTIRELY NUMERIC.

New password

NEW PASSWORD CONFIRMATION:

New password confirmation

SAVE CHANGES

Figure 26: Change Password of User

- Notifications

Notifications :

Your booking at Pan Pacific Sonargaon (Dhaka) on 1 Casual room(s) [Sept. 16, 2019- Sept. 17, 2019] has been confirmed.

Your booking at Pan Pacific Sonargaon (Dhaka) on 1 Deluxe room(s) [Sept. 16, 2019- Sept. 17, 2019] has been confirmed.

Your booking at Pan Pacific Sonargaon (Dhaka) on 1 Casual room(s) [Sept. 17, 2019- Sept. 18, 2019] has been confirmed.

Your booking at Pan Pacific Sonargaon (Dhaka) on 1 Deluxe room(s) [Sept. 17, 2019- Sept. 18, 2019] has been cancelled.

Figure 27: Notifications of User

- View Hotel Bookings

Hotel Name	Room Details	Check-in	Check-out	No of Rooms	Price	Advanced Payment	Pending Payment	Money to be refunded upon cancellation	Status	Actions
Pan Pacific Sonargaon 107 Kazi Nazrul Islam Ave, Dhaka 1215 Dhaka,Bangladesh	Type : 3 Casual Single Bed : 1 Double Bed : 0	Sept. 17, 2019	Sept. 18, 2019	1	4700.0t	235.0t	4465.0t	188.0t	Confirmed	
Pan Pacific Sonargaon 107 Kazi Nazrul Islam Ave, Dhaka 1215 Dhaka,Bangladesh	Type : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 17, 2019	Sept. 18, 2019	1	7000.0t	350.0t	6650.0t	280.0t	Cancelled	
Pan Pacific Sonargaon 107 Kazi Nazrul Islam Ave, Dhaka 1215 Dhaka,Bangladesh	Type : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 17, 2019	Sept. 18, 2019	1	7000.0t	350.0t	6650.0t	280.0t	Cancelled	
Pan Pacific Sonargaon 107 Kazi Nazrul Islam Ave, Dhaka 1215 Dhaka,Bangladesh	Type : 4 Suite Single Bed : 0 Double Bed : 2	Sept. 17, 2019	Sept. 18, 2019	1	15000.0t	750.0t	14250.0t	600.0t	Cancelled	
Pan Pacific Sonargaon 107 Kazi Nazrul Islam Ave, Dhaka 1215 Dhaka,Bangladesh	Type : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 18, 2019	Sept. 19, 2019	1	7000.0t	350.0t	6650.0t	280.0t	Booked	Cancel

Figure 28: Hotel Bookings of User

- View Flight Bookings

Airlines	Flight Details	Date	Time	Route Details	Duration(in minutes)	No of Seats	Price	Advanced Payment	Pending Payment	Money to be refunded upon cancellation	Cancel
Air India	Aircraft Number : A11234 Aircraft Model : Boeing 777-200LR	Sept. 20, 2019	6 a.m.	Hazrat Shahjalal International Airport,Dhaka To Netaji Subhash Chandra Bose International Airport,Kolkata	90	1	7000.0t	700.0t	6300.0t	560.0t	Cancel
Air India	Aircraft Number : A11235 Aircraft Model : Boeing 777-200LR	Sept. 20, 2019	9 a.m.	Netaji Subhash Chandra Bose International Airport,Kolkata To Chennai International Airport,Chennai	120	1	6000.0t	600.0t	5400.0t	480.0t	Cancel
Biman Bangladesh	Aircraft Number : BB1230 Aircraft Model : Boeing 737-800	Sept. 20, 2019	6 a.m.	hazrat shahjalal international airport,Dhaka To Shah Amanat International Airport,Chittagong	40	1	2500.0t	50.0t	2450.0t	40.0t	Cancel
	Aircraft Number : BB1236	Sept.	-	hazrat shahjalal international airport,Dhaka							

Figure 29: Flight Bookings of User

3.2 As Hotel Company Admin

3.2.1 Login

After completing registration successfully, Hotel Admin can login to the website with username and password from login page. Here, login form for Pan Pacific

Sonargaon is shown in Figure 30

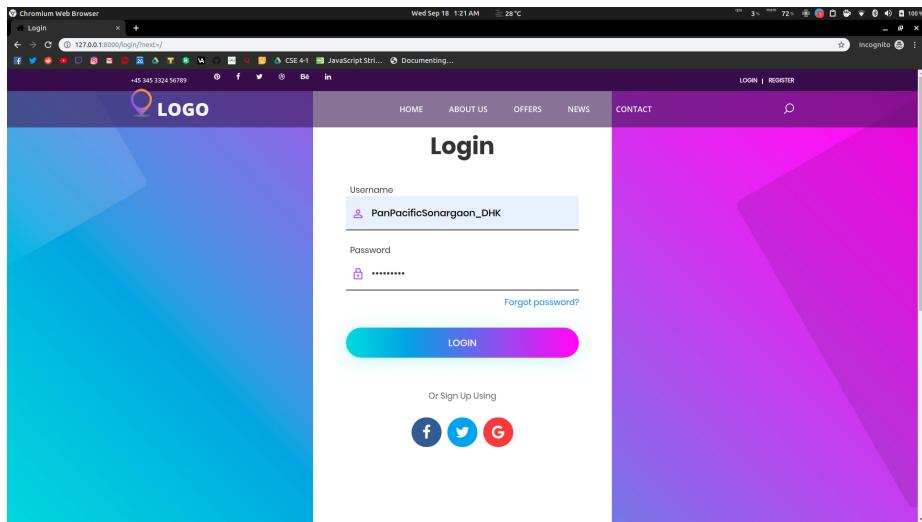


Figure 30: Login form for Pan Pacific Sonargaon

3.2.2 Profile

After logging in, Hotel admin will be redirected to the profile page.

Dashboard: By default, **Dashboard** option is selected after log in. Here, the admin will see bar chart and pie chart representing *Revenue from booking per check in day* and *Revenue per room type* respectively and total income through the website like Figure 31.

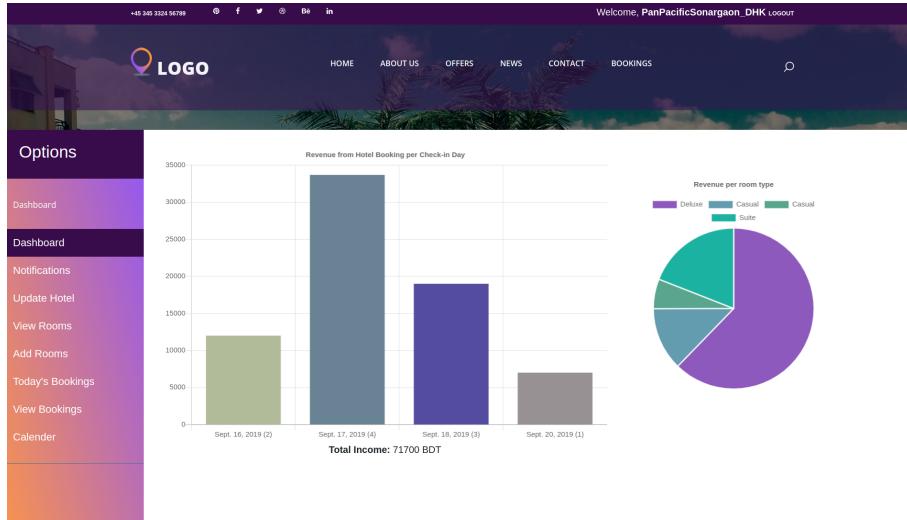


Figure 31: Dashboard of hotel admin

Notification: Hotel admin will see a red notifier with number indicating new notifications. Usually, cancellation from user end results as a notification in hotel admin end. See Figure 32.

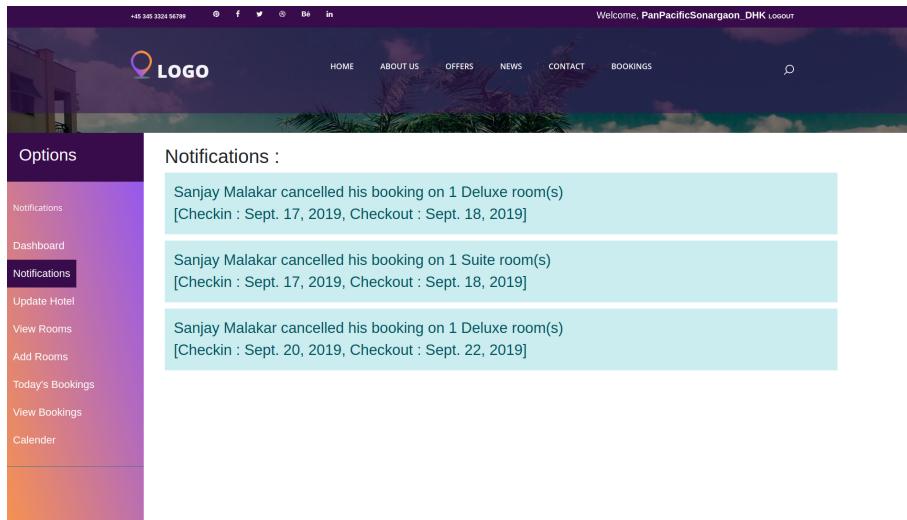


Figure 32: Notification of hotel admin

Update Hotel: Hotel admin can update/edit information of the hotel from this link. The update information is like Figure 33.

Figure 33: Update hotel information form

View Rooms: Hotel admin can see the list of hotel rooms with details. The list is like Figure 34

Thumbnail	Room Details	WiFi	Breakfast	Total Rooms	Free Rooms	Price/Room	Modify
	ID : 1 Type : Deluxe Single Bed : 0, Double Bed : 1 AirConditioner : Yes	Yes	Yes	4	0	7000.0	<button>UPDATE</button>
	ID : 2 Type : Casual Single Bed : 2, Double Bed : 0 AirConditioner : Yes	Yes	Yes	2	0	5000.0	<button>UPDATE</button>
	ID : 3 Type : Casual Single Bed : 2, Double Bed : 0 AirConditioner : Yes						<button>UPDATE</button>

Figure 34: List of hotel room

Moreover, hotel admin can update individual room information by clicking **Update** button which will redirect to a page of Figure 35. Admin can delete any image he/she wants. After scrolling down, he/she will get forms

to update that room information and add any new image for that room like Figure 36.

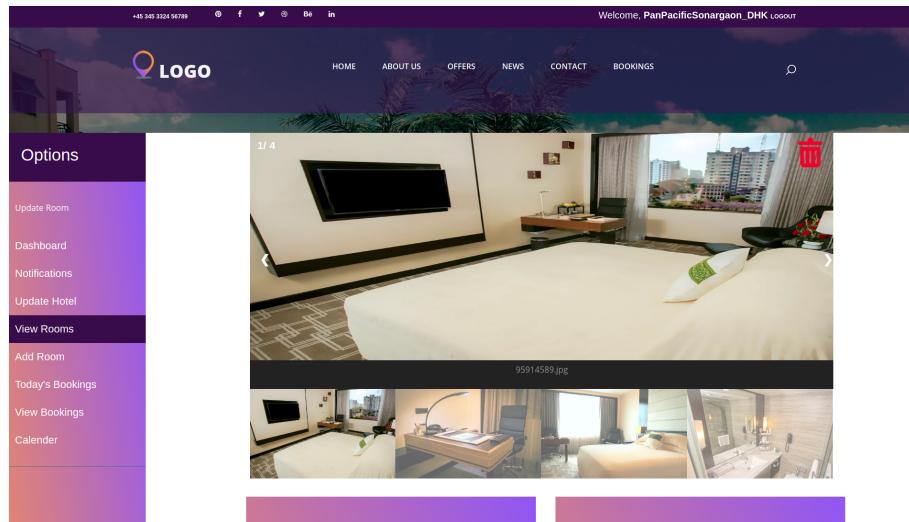


Figure 35: Room information

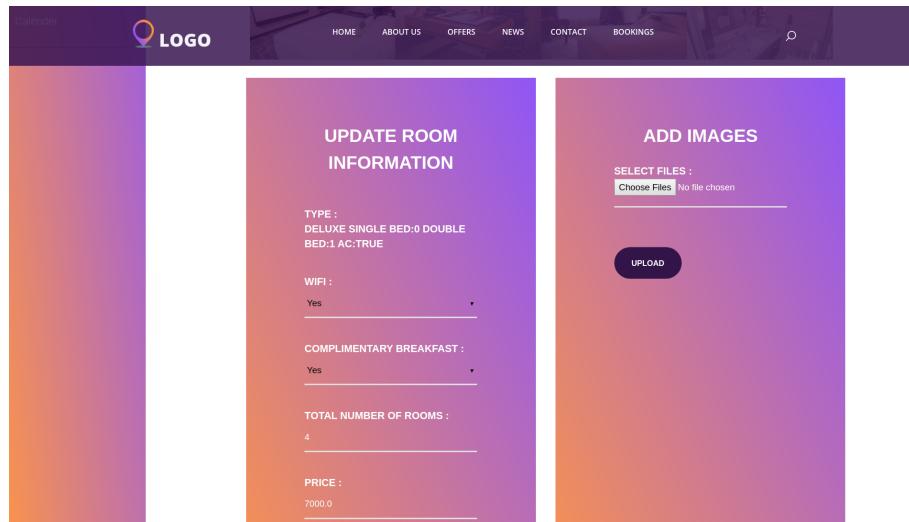


Figure 36: Update room information and add new image

Add Room: Hotel admin can add any new type of room for his/her hotel by filling up the form of Figure 37.

ADD NEW ROOM

ROOM TYPE :
Deluxe SingleBed:0 DoubleBed:1 AC

WIFI :
Yes

COMPLIMENTARY BREAKFAST :
Yes

TOTAL NUMBER OF ROOMS :
1

PRICE :
0

SELECT FILES :
Choose Files No file chosen

Figure 37: Add new room for hotel

Today's Bookings: Hotel admin can see the list of bookings of that day from this link. See Figure 38

Booked by	Room Details	Check-in	Check-out	No of Rooms	Price	Advanced Payment	Pending Payment	Status	Actions
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 3 Casual Single Bed : 1 Double Bed : 0	Sept. 17, 2019	Sept. 18, 2019	1	4700.0	235.0 <small>l</small>	4465.0 <small>l</small>	Confirmed	
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 17, 2019	Sept. 18, 2019	1	7000.0	350.0 <small>l</small>	6650.0 <small>l</small>	Cancelled	
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 17, 2019	Sept. 18, 2019	1	7000.0	350.0 <small>l</small>	6650.0 <small>l</small>	Cancelled	
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 4 Single Single Bed : 0 Double Bed : 2	Sept. 17, 2019	Sept. 18, 2019	1	15000.0	750.0 <small>l</small>	14250.0 <small>l</small>	Cancelled	

Figure 38: Bookings of corresponding day

View Bookings: Hotel admin can see all the bookings from this link. From here, he can take necessary action for upcoming booking. See Figure 39



The screenshot shows a table of bookings with the following columns: Booked by, Room Details, Check-in, Check-out, No of Rooms, Price, Advanced Payment, Pending Payment, and Status. The bookings are listed in chronological order from top to bottom.

Booked by	Room Details	Check-in	Check-out	No of Rooms	Price	Advanced Payment	Pending Payment	Status
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 20, 2019	Sept. 22, 2019	1	14000.0	700.0%	13300.0%	Cancelled
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 2 Casual Single Bed : 2 Double Bed : 0	Sept. 18, 2019	Sept. 19, 2019	1	5000.0	250.0%	4750.0%	Booked
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 18, 2019	Sept. 19, 2019	1	7000.0	350.0%	6650.0%	Booked
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 18, 2019	Sept. 19, 2019	1	7000.0	350.0%	6650.0%	Booked
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 3 Casual Single Bed : 1 Double Bed : 0	Sept. 17, 2019	Sept. 18, 2019	1	4700.0	235.0%	4465.0%	Confirmed
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 17, 2019	Sept. 18, 2019	1	7000.0	350.0%	6650.0%	Cancelled
Sanjay Malakar 19000000 Dhaka , Bangladesh iamsanjaymalakar@gmail.com	ID : 1 Deluxe Single Bed : 0 Double Bed : 1	Sept. 17, 2019	Sept. 18, 2019	1	7000.0	350.0%	6650.0%	Cancelled

Figure 39: All bookings of hotel

Calendar: Hotel admin can also see the bookings in calendar format like Figure 40. This representation will be easier to visualize since a colored bar is drawn from check in date to check out date.

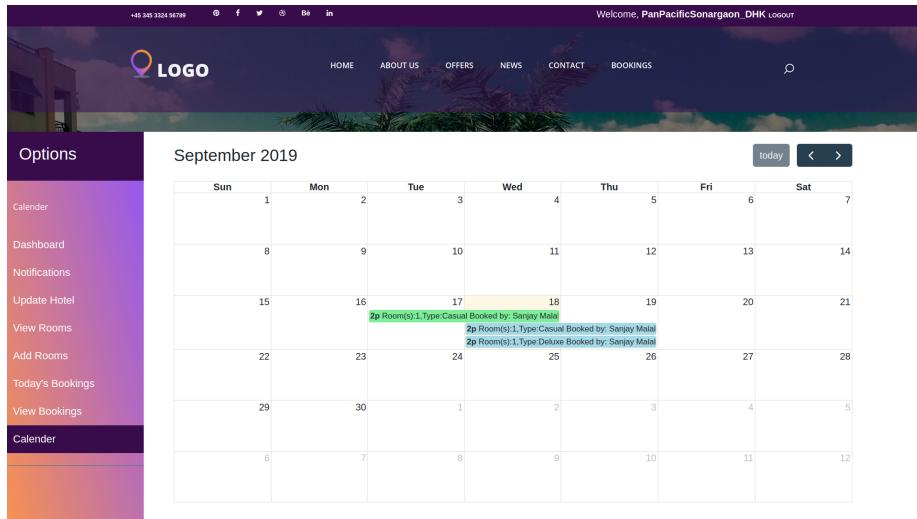
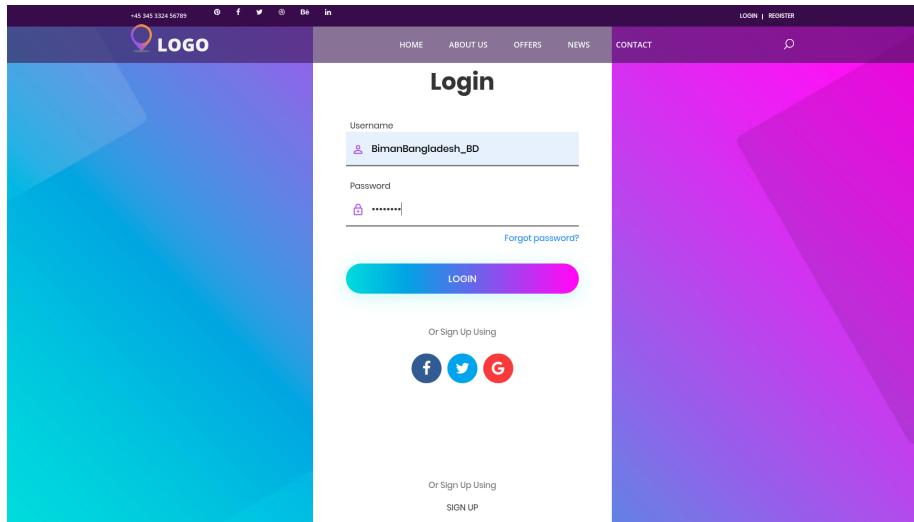


Figure 40: Room bookings in calendar format

3.3 As Airlines Company Admin

3.3.1 Login

After completing registration successfully, Air Company admin can login to the website with username and password from login page. Here, login form for Biman Bangladesh is shown in Figure 30



The image shows a screenshot of a web browser displaying the login page for Biman Bangladesh. The header features a logo with a blue and orange gradient, social media links (Facebook, Twitter, LinkedIn), and navigation links for HOME, ABOUT US, OFFERS, NEWS, CONTACT, LOGIN, and REGISTER. The main content area is titled 'Login' and contains fields for 'Username' (BimanBangladesh_BD) and 'Password'. Below these fields is a 'Forgot password?' link. A large blue 'LOGIN' button is centered. Below the button, there are links for 'Or Sign Up Using' and social media icons for Facebook, Twitter, and Google+. At the bottom of the form, there is a 'SIGN UP' link.

Figure 41: Login form for Biman Bangladesh

3.3.2 Profile

After logging in, Air Company admin will be redirected to the profile page.

Dashboard: By default, **Dashboard** option is selected after log in. Here, the admin will see bar chart and pie chart representing *Revenue from flight booking per day* and *Revenue per route* respectively and total income through the website like Figure 42.

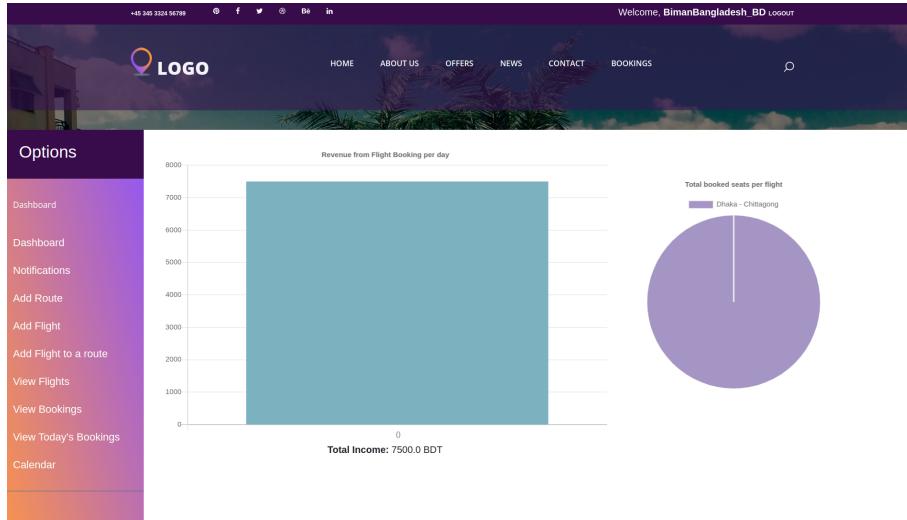


Figure 42: Dashboard of air company admin

Notification: Air Company admin will see a red notifier with number indicating new notifications. Usually, cancellation from user end results as a notification in hotel admin end. See Figure 43.

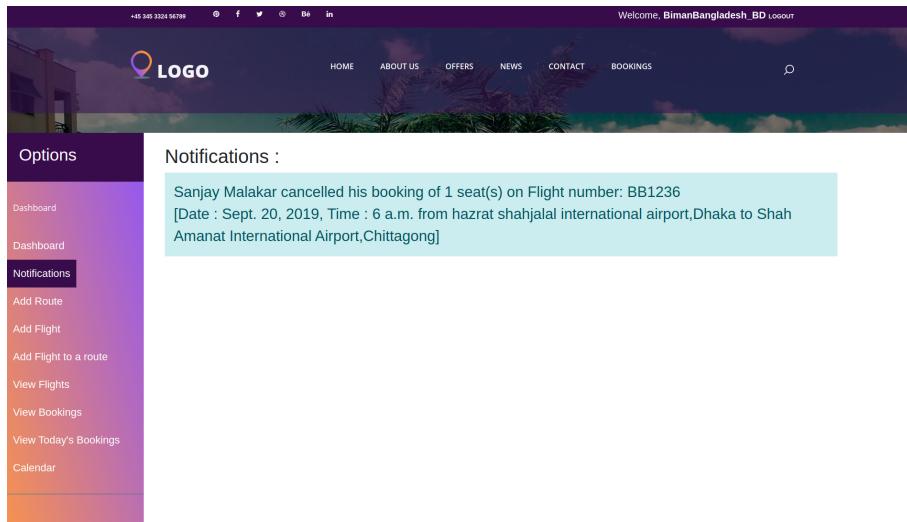


Figure 43: Notification of air company admin

Add Route: Air Company admin can add any route for his/her airlines by filling up the source and destination of Figure 44.

The screenshot shows a web interface for managing flight routes. On the left, a sidebar titled 'Options' contains links: Add Route, Dashboard, Notifications, Add Route (which is highlighted in dark blue), Add Flight, Add Flight to a route, View Flights, View Bookings, View Today's Bookings, and Calendar. The main content area has a purple-to-orange gradient background. At the top, it says 'ADD NEW ROUTE'. Below that are two input fields: 'SOURCE :' and 'DESTINATION :'. At the bottom right is a dark blue button labeled 'ADD ROUTE'.

Figure 44: Add new route form for airline

Add Flight: Air Company admin can add a new flight for his/her airlines by filling up the form of Figure 45.

The screenshot shows a web interface for managing flights. The sidebar 'Options' includes: Add Flight, Dashboard, Notifications, Add Route, Add Flight (highlighted in dark blue), Add Flight to a route, View Flights, View Bookings, View Today's Bookings, and Calendar. The main area features a purple-to-orange gradient. It displays 'ADD NEW FLIGHT' at the top, followed by 'UPDATE INFORMATION'. There are three input fields: 'AIRPLANE NUMBER:', 'AIRCRAFT :', and 'TOTALSEATS :'. A dark blue 'ADD FLIGHT' button is located at the bottom right.

Figure 45: Add new flight form for airline

Add Flight to Route: Air Company admin can link one of their flight(airplane) to a new route by filling up the form of Figure 46.

ADD NEW FLIGHT TO A ROUTE

ROUTE :
Dhaka-Chittagong

FLIGHT :
BB1236

SOURCE AIRPORT : _____

DESTINATION AIRPORT : _____

DATE :
2019-9-18

TIME : _____

Figure 46: Linking flight to route for airline

View Flights: Air Company admin can see the list of flights of their own company with details. The list is like Figure 47. Here, they can even update information of the flights.

Airplane Number	Airplane Model	Total Seats	Modify
BB1236	Boeing 737-800	140	UPDATE
BB1235	Boeing 777-300ER	100	UPDATE
BB1234	Boeing 787-8	100	UPDATE

Figure 47: List of flights for airline

View Bookings and Today's Bookings: Air Company admin can see all the bookings and the bookings of only that day from these links. From

here, he can take necessary action for upcoming booking. The list is similar to the of Hotel's. See Figure 39 and 38.

Calendar: Air Company admin can also see the bookings in calendar format like Figure 48. This representation will be easier to visualize since a colored bar is drawn for the flight date with total booked seats.

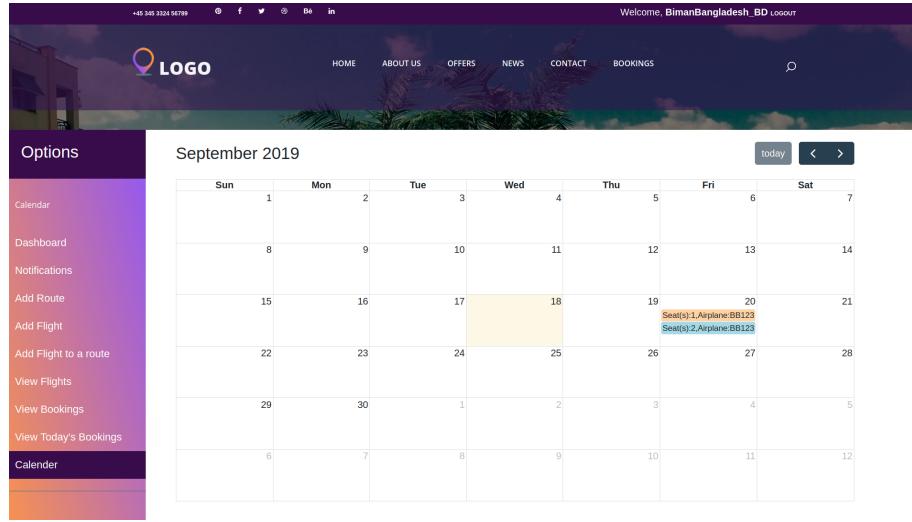


Figure 48: Flight bookings in calendar format

3.4 As Super Admin

3.4.1 Profile

After logging in, Super admin will be redirected to the profile page.

Dashboard: By default, **Dashboard** option is selected after log in. Here, the admin will see line chart and pie chart representing *Revenue from hotel booking per day* and *Revenue from hotels* respectively. On the left of these charts, there are two buttons (**Hotel** and **Flight**) by which admin can select which charts he/she want to see. By default, **Hotel** is selected which will be like Figure 49. In case of selecting **Flight** button, page will be like the Figure 50.

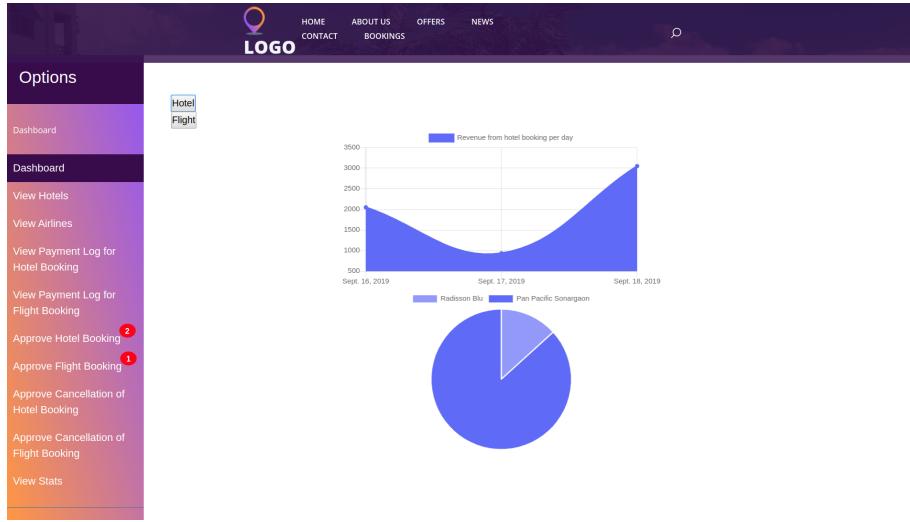


Figure 49: Dashboard of super admin with hotel charts

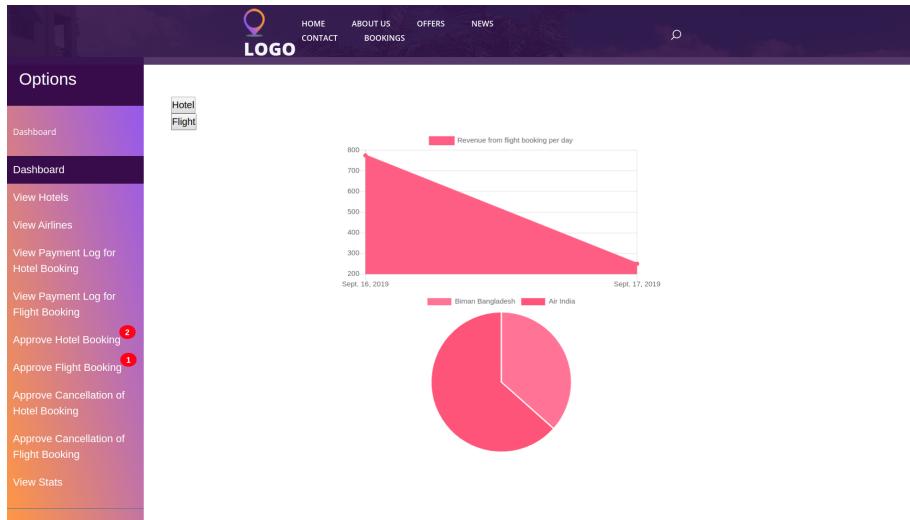


Figure 50: Dashboard of super admin with flight charts

View Hotels: Super admin can see the list of hotels with details. The list is like Figure 51

Hotel Name	Hotel Country	Hotel Location	Address	Longitude	Latitude	Phone	Percentage of Advance payment	Total Money Sent
Pan Pacific Sonargaon	Bangladesh	Dhaka	107 Kazi Nazrul Islam Ave, Dhaka 1215	90.394753	23.749586	29128008	5.0	10325.0
Radisson Blu	Bangladesh	Dhaka	Airport Road, Dhaka Cantonment, Dhaka 1206	90.408517	23.816026	1730089139	5.0	0.0
Six Seasons Hotel	Bangladesh	Dhaka	House No 19, Road No 96, Gulshan 2, Dhaka 1212	None	23.794665	29840789	10.0	0.0
Le Méridien Dhaka	Bangladesh	Dhaka	79/A Commercial Area Airport Rd, Dhaka 1229	None	23.8363431	9638900089	12.0	0.0
Radisson Blu Chittagong Bay View	Bangladesh	Chittagong	Khaled Rd, Chittagong 4000	None	None	31619800	6.0	0.0
Hotel Agrabad	Bangladesh	Chittagong	Sabder Ali Road, Agrabad C/A, Chittagong 4000	None	None	31713311	5.0	0.0
The Peninsula Chittagong	Bangladesh	Chittagong	486/B, CDA Avenue, O.R. Nizam Road, Bulbul Center, Chittagong 4100	None	None	1755554555	12.0	0.0
Mermaid Eco-Resort	Bangladesh	Cox's Bazar	Pechardwip, Marine drive, road, Ramu 4730	None	None	1841416464	15.0	0.0

Figure 51: List of hotels

View Airlines: Super admin can see the list of airlines with details. The list is like Figure 52

Airlines Name	Total Money Sent	Percentage of Advance payment
Biman Bangladesh	60.0	2.0%
Regent Airways	0.0	5.0%
United Airways	0.0	4.0%
Novoair	0.0	10.0%
Qatar Airways	0.0	15.0%
Emirates	0.0	12.0%
AirAsia	0.0	5.0%
Singapore Airlines	0.0	2.0%
Air India	1300.0	10.0%
Thai Airways	0.0	15.0%

Figure 52: List of airlines

View Payment Log for Hotel Bookings: Super admin can see all the bookings of hotels from this link. From here, he can monitor the transactions. See Figure 39

Booked By	Hotel Name	Room Type	Unit Price	Pending Payment	Advanced Payment	Money to be refunded to the customer on booking cancellation	Date of Booking	Checkin Date	Checkout Date	Total Rooms Booked	Transaction Type
Sanjay Malakar 190000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Pan Pacific Sonargaon	Deluxe	7000.0	6650.0	350.0	280.0	Sept. 16, 2019	Sept. 16, 2019	Sept. 17, 2019	1	Credit: Sanjay Malakar pays 250.0 to Pan Pacific Sonargaon
Sanjay Malakar 190000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Pan Pacific Sonargaon	Casual	5000.0	4750.0	250.0	200.0	Sept. 16, 2019	Sept. 16, 2019	Sept. 17, 2019	1	Credit: Sanjay Malakar pays 250.0 to Pan Pacific Sonargaon
Sanjay Malakar 190000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Pan Pacific Sonargaon	Casual	4700.0	4465.0	235.0	188.0	Sept. 17, 2019	Sept. 17, 2019	Sept. 18, 2019	1	Credit: Sanjay Malakar pays 235.0 to Pan Pacific Sonargaon
Sanjay Malakar 190000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Pan Pacific Sonargaon	Deluxe	7000.0	6650.0	350.0	280.0	Sept. 17, 2019	Sept. 18, 2019	Sept. 19, 2019	1	Debit: Sanjay Malakar pays 350.0 to Pan Pacific Sonargaon

Figure 53: Payment log of hotel bookings

View Payment Log for Flight Bookings: Super admin can see all the bookings of flights from this link. From here, he can monitor the transactions. See Figure 54

Booked by	Airlines	Flight details	Route details	Price	Pending Payment	Advanced Payment	Money to be refunded to the customer on booking cancellation	Date of Booking	Total Seats Booked	Transaction Type
Sanjay Malakar 190000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Biman Bangladesh	Airplane number: BB1235 Airplane model: Boeing 737-800 Date : Sept. 20, 2019 Time : 6 a.m. Duration(in minutes) : 40	hazrat shahjal international airport,Dhaka	2500.0	2450.0	50.0	40.0	Sept. 16, 2019	1	Credit: Sanjay Malakar pays 50.0 to Biman Bangladesh
Sanjay Malakar 190000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Air India	Airplane number: AI1234 Airplane model: Boeing 777-200LR Date : Sept. 20, 2019 Time : 6 a.m. Duration(in minutes) : 90	Hazrat Shahjal International Airport,Dhaka Netaji Subhash Chandra Bose International Airport,Kolkata	7000.0	6300.0	700.0	560.0	Sept. 16, 2019	1	Credit: Sanjay Malakar pays 700.0 to Air India
Sanjay Malakar 190000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Biman Bangladesh	Airplane number: BB1236 Airplane model: Boeing 737-800 Date : Sept. 20, 2019	hazrat shahjal international airport,Dhaka	2500.0	2450.0	50.0	40.0	Sept. 16, 2019	1	Debit: Biman Bangladesh pays 40.0 to Sanjay

Figure 54: Payment log of flight bookings

Approve Hotel Bookings: Super admin can approve the hotel bookings from this link. From here, he has to approve the bookings first. See Figure 55

The screenshot shows a web-based administrative interface for managing bookings. On the left, a sidebar titled "Options" lists various administrative tasks. The main area displays a table of hotel bookings for approval. Each booking row includes columns for Booked by, Hotel Name, Room Type, Unit Price, Pending Payment, Advanced Payment, Money to be refunded to the customer on booking cancellation, Date of Booking, Checkin Date, Checkout Date, Total Rooms Booked, and an "Approve" button.

Booked by	Hotel Name	Room Type	Unit Price	Pending Payment	Advanced Payment	Money to be refunded to the customer on booking cancellation	Date of Booking	Checkin Date	Checkout Date	Total Rooms Booked	Approve
Sanjay Malakar 19000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Radisson Blu	Deluxe	8000.0	45600.0	2400.0	1920.0	Sept. 18, 2019	Sept. 18, 2019	Sept. 21, 2019	2	<button>APPROVE</button>
Sanjay Malakar 19000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Radisson Blu	Deluxe	8000.0	45600.0	2400.0	1920.0	Sept. 18, 2019	Sept. 18, 2019	Sept. 21, 2019	2	<button>APPROVE</button>

Figure 55: Approval list of hotel bookings

Approve Flight Bookings: Super admin can approve the flight bookings from this link. From here, he has to approve the bookings first. See Figure 56

The screenshot shows a web-based administrative interface for managing bookings. On the left, a sidebar titled "Options" lists various administrative tasks. The main area displays a table of flight bookings for approval. Each booking row includes columns for Booked by, Airlines, Flight details, Route details, Price, Pending Payment, Advanced Payment, Money to be refunded upon cancellation, Date of Booking, Total Seats Booked, and an "Approve" button.

Booked by	Airlines	Flight details	Route details	Price	Pending Payment	Advanced Payment	Money to be refunded upon cancellation	Date of Booking	Total Seats Booked	Approve
Sanjay Malakar 19000000 iamsanjaymalakar@gmail.com Dhaka , Bangladesh	Biman Bangladesh	Airplane number: BB1236 Airplane model: Boeing 737-800 Date : Sept. 20, 2019 Time : 6 a.m. Duration(in minutes) : 40	hazrat shahjalal international airport,Dhaka to Shah Amanat International Airport,Chittagong	2500.0	2450.0	50.0	40.0	Sept. 17, 2019	1	<button>APPROVE</button>

Figure 56: Approval list of flight bookings

Approve Cancellations of Booking: Super admin can approve the cancellations of bookings. There are two options for hotel and flight booking cancellations. In case of hotel, the list will be like Figure 57.

The screenshot shows a web-based travel booking application interface. At the top, there is a header bar with a logo, social media links (Twitter, Facebook, LinkedIn), and a search bar. The main navigation menu includes links for HOME, ABOUT US, OFFERS, NEWS, CONTACT, and BOOKINGS. A welcome message "Welcome, sanjay" and a "Logout" link are also present.

The left sidebar, titled "Options", contains several menu items:

- Hotel Booking Cancellation Approval
- Dashboard
- View Hotels
- View Airlines
- View Payment Log for Hotel Booking
- View Payment Log for Flight Booking
- Approve Hotel Booking 2
- Approve Flight Booking 1
- Approve Cancellation of Hotel Booking 1
- Approve Cancellation of Flight Booking

The main content area displays a table of hotel bookings for cancellation approval. The columns are:

Booked by	Hotel Name	Room Type	Unit Price	Pending Payment	Advanced Payment	Money to be refunded to the customer on booking cancellation	Date of Booking	Checkin Date	Checkout Date	Total Rooms Booked	Approve
Sanjay Malakar 19000000 iamsanjaymalakar@gmail.com	Pan Pacific Sonargaon Dhaka , Bangladesh	Suite	15000.0	85500.0	4500.0	3600.0	Sept. 18, 2019	Sept. 18, 2019	Sept. 21, 2019	2	APPROVE

Figure 57: Cancellations list of hotel bookings