Hotel Chain APP (The Largest Hotel Booking Application of Bangladesh)

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

This Project/internship titled **"Hotel Chain App (The Largest Hotel Booking Application of Bangladesh)"**, submitted by **Fardeen Mahmud, ID No: 191-15-2429** and **Tanjina Akter Choity, ID No: 191-15-2440** to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on **February 5, 2023.**

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We thusly announce that this task has been finished by us under the management of **Al Amin Biswas, Sr. Lecturer**, Department of CSE, Daffodil International University. We likewise proclaim that neither this task nor any piece of this undertaking has been submitted somewhere else for the honor of any degree or recognition.

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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

This is the mobile application named “Hotel Chain App (The Largest Hotel Booking Application of Bangladesh)”. One of the biggest problems in tourism sector is hotel booking. As small of a problem it sound’s, is actually the biggest problem. For a delightful & tension free tour a place for staying is really important. But because of the growing population and limited tourism places, when so many people goes to one place it’s quite impossible to book a hotel room. As the hotels are already been booked. To, solve this huge of a problem we have developed “Hotel Chain App”. Our slogan is to make hotel booking more relaxing & easier. In this project that have basically 2 panel that are user interface, so that can customer or user can easily book hotels. But they must login first and then search, choose, select, review system book and so on & another is admin interface that can update hotels, process, confirm booking, pictures and slider change are here. Using this, every customers will be benefited.

TABLE OF CONTENTS

CONTENTS	PAGE
Approval	I
Declaration	II
Acknowledgements	III
Abstract	IV
CHAPTER	
CHAPTER 1: Introduction	**1-2**
1.1 Introduction	1
1.2 Motivation	1
1.3 Objectives	1
1.4 Outcomes	2
1.5 Report layout	2
CHAPTER 2: Background	**3-5**
2.1 Background's study	3
2.2 Related project	3-4
2.3 Comparative table	5
2.4 Problem's scope	5
2.5 Challenges	5

CHAPTER 3: Requirement specification **6-10**

3.1 Business process model 6

3.2 Analysis & Design 7

3.3 Testing & coding 7

3.4 Maintaining 7

3.5 Flowchart 8

3.6 Use case diagram 9

3.7 Requirements of design 10

CHAPTER 4: Design specification **11-31**

4.1 Project Overview 11-27

4.2 PHP 31

4.3 Bootstrap 31

4.4 Java-script 31

4.5 Database 31

4.6 Java 31

CHAPTER 5: Implementation and testing **32**

5.1 Name of database 32

5.2 Result 32

CHAPTER 6: Conclusion **33**

6.1 Conclusion 33

6.2 Scope for Future Work 33

REFERENCES **34**

LIST OF FIGURES

FIGURES	PAGE NO
Fig 2.1: Booking.com	4
Fig 3.1: Business process model (BPM) of this project	6
Fig 3.2: Flow diagram for order product	8
Fig 3.3: Use case diagram of this project	9
Fig 4.1: Home page	11
Fig 4.2: Login/Registration page	12
Fig 4.3: User profile page	13
Fig 4.4: Filter Option	14
Fig 4.5: Hotel Profile	15
Fig 4.6: See On Map & Get Directions	16
Fig 4.7: Add Room	17
Fig 4.8: Calendar Page	18
Fig 4.9: Payment Invoice	19
Fig 4.10: Discount	20
Fig 4.11: Helicopter Booking	21
Fig 4.12: Menu-bar	22
Fig 4.13: Admin Dashboard	23
Fig 4.14: Hotels Details	23
Fig 4.15: Add Hotels	24
Fig 4.16: Edit Hotels	24
Fig 4.17: Booking Confirmation	25

Fig 4.18: Adding Offers	25
Fig 4.19: User List	26
Fig 4.20: Reviews	26
Fig 4.21: Available Rooms	27
Fig 4.22: Website	28-30
Fig 5.1: Database table	32
Fig 5.2: Test case of registration of this project	32

LIST OF TABLES

NAME OF TABLE	PAGE NO
Table 2.1: Comparative study with another project	5
Table 3.1: Design requirement of this project	10

CHAPTER 1
INTRODUCTION

1.1 Introduction

Tourism is one of the biggest assets for any country. All over the world many countries are depended on tourism. It's the biggest source for any countries reserve. Taking a holiday can greatly benefit a person's quality of life. While different people have very different ideas of what makes a good holiday (there are more than 150 types of tourism after all!), a holiday does have the potential to enhance quality of life. Travel is known to help broaden a person's way of thinking. Travel introduces you to new experiences, new cultures and new ways of life. Many people claim that's why 'find themselves' while travelling. It enhances cultural, social, environmental knowledge. One of the biggest problems in tourism sector is hotel booking. As small of a problem it sound's, is actually the biggest problem. For a delightful & tension free tour a place for staying is really important. But because of the growing population and limited tourism places, when so many people goes to one place it's quite impossible to book a hotel room. As the hotels are already been booked. To, solve this huge of a problem we have developed "Hotel Chain App". Our slogan is to make hotel booking more relaxing & easier.

1.2 Motivations

The motivation of this project came from all the hassles that occurs during booking hotels. Some key aspects are:

a) Secure Room.

b) Clean Room.

c) Finding nearest hotels.

d) Room availability.

e) Double booking and so on.

People face these problems all the time. So, to reduce these problems we made this project.

1.3 Objectives

This projects objective is to reduce hotel booking hassle. In tourism hotel is the most important aspect. An care free fun tour depends on safe hotel booking. We are making this project so that people doesn't have to face the problems they face with hotel booking any more.

1.4 Expected Outcomes

The output will be:

- User will search, choose & book his/her hotel from being at any place any time.
- This will be user-friendly app.
- For safety, security and booking confirmation customers will get notifications.
- They will be able to add hotels to their favorite list.

1.5 Report Layout

- ✓ Chapter-1 describes about the Introduction, motivation, objectives, outcomes and report layout parts.
- ✓ Chapter-2 describes about the Background study, related work, comparative study, scope of problem and challenges all the discussions.
- ✓ Chapter-3 describes about the Requirement's collections, use case model, logical data model and business process model.
- ✓ Chapter-4 describes about the Application of project design.
- ✓ Chapter-5 describes about the Implementation and testing of the project.
- ✓ Chapter-6 describes about the Conclusion and future work scopes of the project.

CHAPTER 2

BACKGROUND STUDY

2.1 Background Study

This app is a hotel booking app. The app his made with Android studio using Java. For the website and dashboard we used programming language/code named php, Laravel platform, and so many packages that are really important for us. For code implement and design we used Vs Code that's a very common platform or compiler that are used for html, php language for better uses that is basically it is an easily accessible code editor for various operating system from Microsoft to MacOs. Alongside we used many shortcut keyboard instructions and so on. Alongside we used the one platform that is Laravel documentation, stripe from stripe official documentation and finally JavaScript and jQuery documentation for decoration, background support and all are doing edit in the visual studio. Vs code is a code editor platform, it supports a variety of programming languages and it's all features. Visual code enables it to run on any device, at any place which is the biggest opportunity for developers. The most of common programming languages have basic support in Visual Studio Code. Visual Studio Code helps to build resources and also make drag & drop applications. Then we used Firebase for the database setup, create, update and delete. We can see our every hotels, pictures & data's via database that are user friendly.

2.2 Related Project

When we decided to create an app and after that we decide we will create a hotel booking app that are most common and popular hotel booking sites that are well known to everybody in the world that times we followed plenty of famous readymade project. And follow them their activities and work policy. Those all sites are famous and popular for us like: Booking.com, Agoda and so on. The Fig 2.1 represents the site Booking.com, which is one of the biggest OTA service. Booking.com helped us furnishing our idea at the development period. There are 3-4 sites in the world which we followed most for developing our project for my country. But we will show only one below:

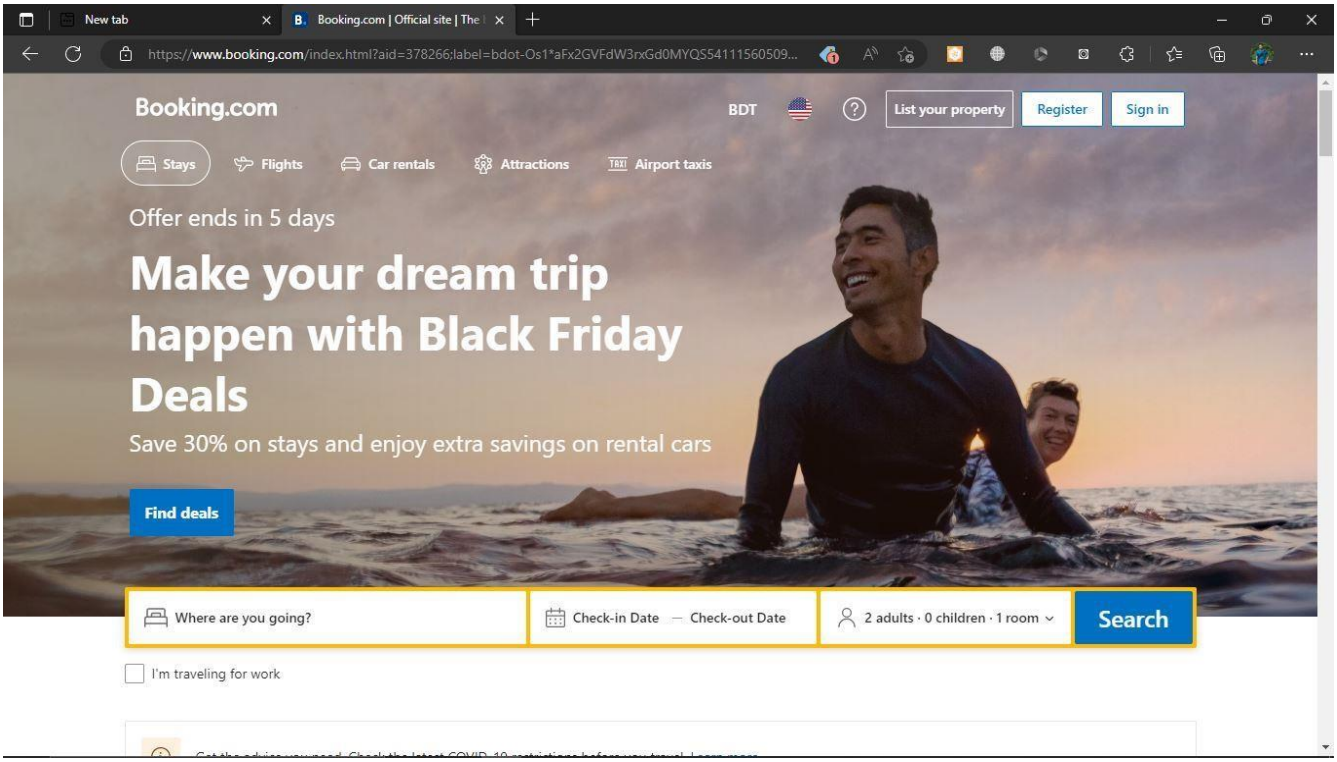


Fig 2.1.: Booking.com

We have learned from those websites:

- Good decorum.
- Well organized.
- Smooth to run.
- Safety and security are proper and so on.

2.3 Comparative with other

Table 2.1: Comparative study

Case study	Booking.com	Agoda	Hotel Chain App
Registration & Login for user and admin	Yes	Yes	Yes
Multilanguage	Yes	No	Yes
Discount/offer	Yes	Yes	Yes
Profile update	Yes	Yes	Yes

Table 2.1 represents the comparative study of the project with other OTA sites. Like other Hotel Chain provides offer, profile update, Login and registration for users and admin. Hotel Chain is also multilingual. This app provides a proper service for all the users.

2.4 Problem Analytics

We have faced a lot of problem, when I have decided to create this:

- At first understanding the project language was hard.
- Without internet, it's impossible to book.
- Regular update is so tough though, I am using a Laravel.
- For API connection, internet is needed.

2.5 Challenges

- Package installation problems in some cases.
- Always check for updating.
- User friendly.
- Data collection and Time maintenance.
- Check System control management.
- Perfect product set up check.
- Database management system.

CHAPTER 3
REQUIREMENT SPECIFICATION

3.1 Business Process Model

The Fig: 3.1 represents the business process model of Hotel Chain App. The guests choose and book hotels from the hotel chain app. The request comes to the dashboard and is approved or verified by admin. The dashboard shows every important details that's required for a booking to be successful. The booking happens in just 10 seconds with only five steps.

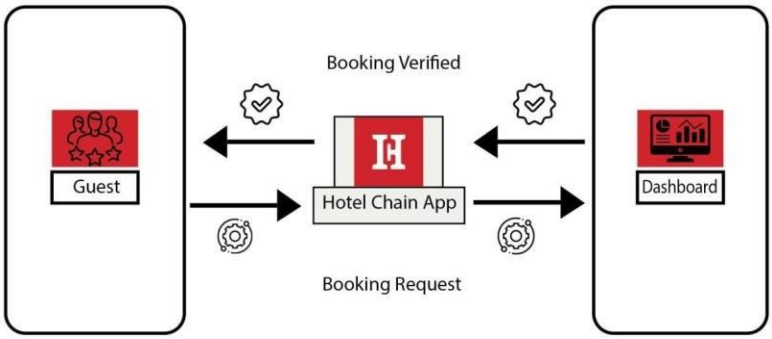


Fig 3.1: Business process model (BPM) of this project

3.2 Analysis & Design

It's a most essential for background design in every project for better understanding. Here, we can use the firstly they analyze the BPM and find out the user requirement which is called requirement analysis. After analysis create a pre-design by analyzing that information. And finally draw the ecommerce background and implemented by those models. Some core parts of requirement below:

- To create an account for customers, amount store.
- Enable shopping cart and gateway system.

3.3 Testing & Coding

The testing systems are:

- The backend updating.
- Authenticate package.
- Real time uses possibility.
- Ideal performance and capacity utilization.

All are can be checking by the developer that are facing no problem for user.

3.4 Maintaining

The list below maintain points are important:

- Firstly, they can determine then checking the project plan.
- Talking about the website budget, Statistics and financial calculations.
- Create maintenance methods and finding the error.
- Solving errors with maintaining safety laws.
- Manage equipment.

3.5 Flowchart

The Fig: 3.2 narrates flow chart, which shows the apps functional controlling way. As the chart shows that the user first registers to the app. Then login to the app. After logging in the user filters and chooses his desired hotel. If the rooms are available then user select room, confirm check in date and by clicking the book now button confirms the booking. And if the room aren't available then searches for another hotel with the requirements user has.

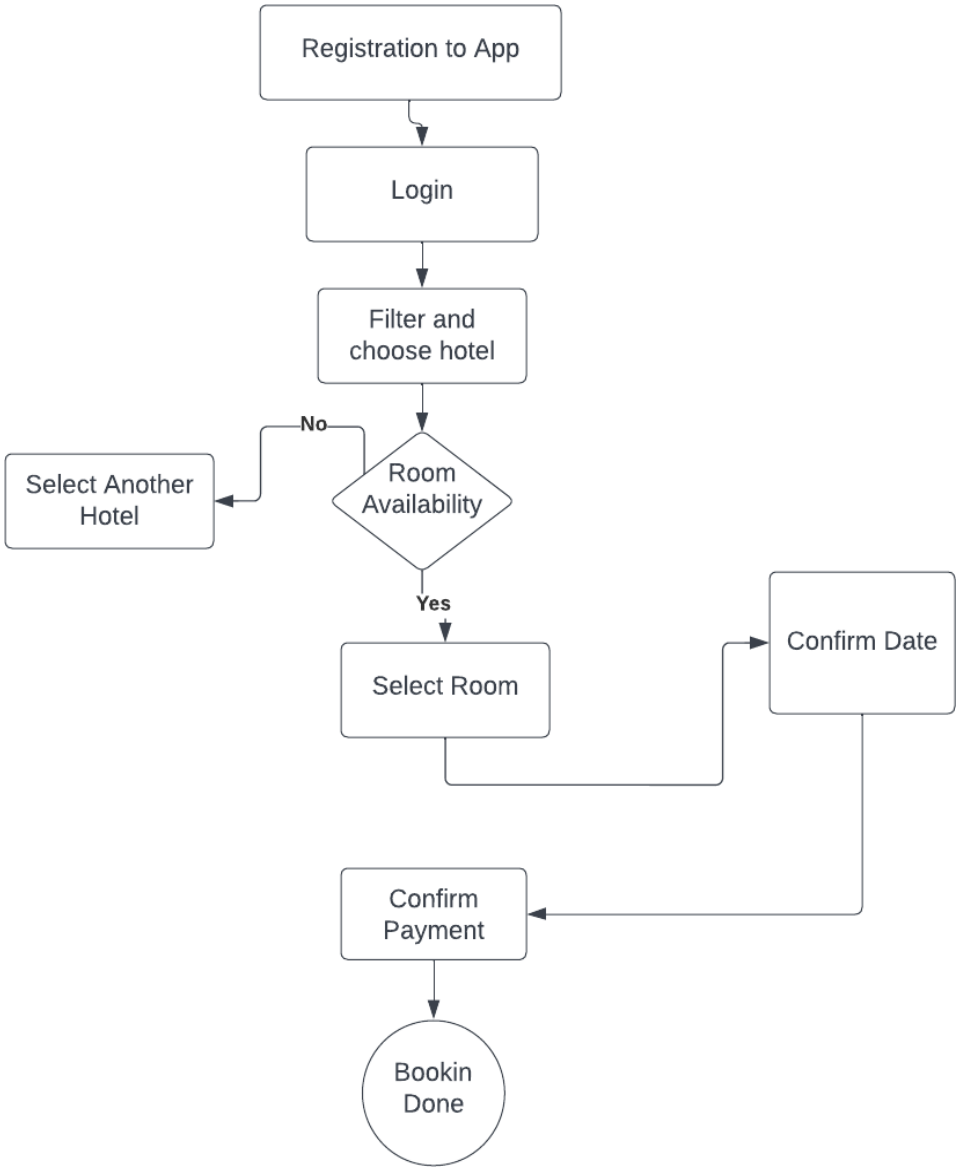


Fig 3.2: Flow diagram for booking hotel.

3.6 Use case diagram

The Fig: 3.3 describe the Use case diagram. This is the basically representation all interaction between the guest and admin. It shows the user activity from user interfaces alongside admin activity from admin interfaces.

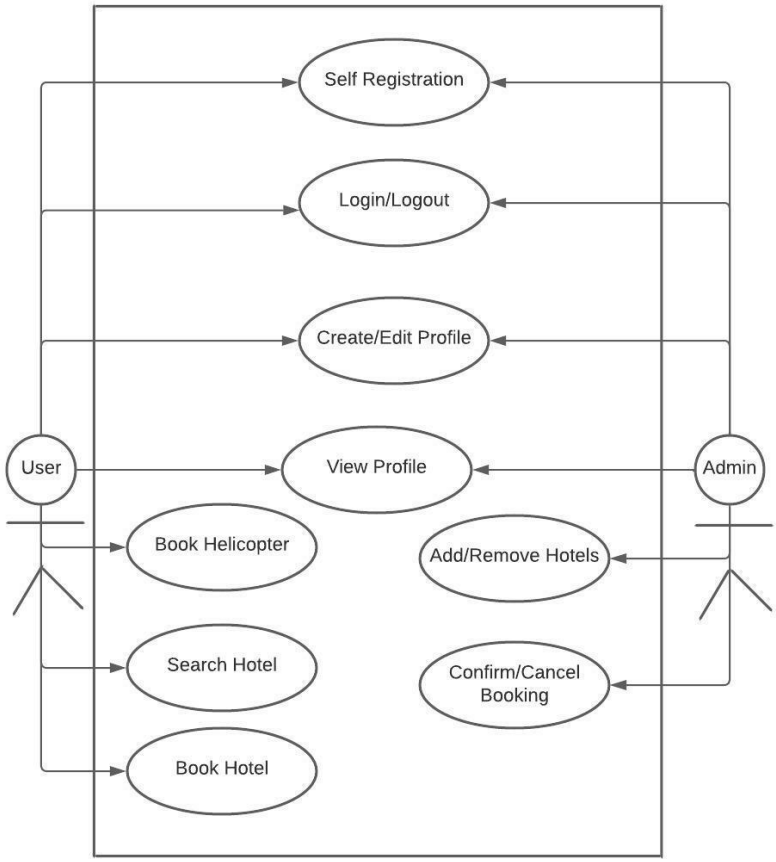


Fig 3.3: Use case diagram of this project

3.7 Requirements of design

Table 3.1 Design requirement of this project

SL NO	Parameter	Admin page	User page
01	Registration	Yes	Yes
02	Password change	Yes	Yes
03	View	Yes	Yes
04	User service	Yes	No
05	Hotel update	Yes	No
06	Log in page	Yes	Yes
07	Take action	Yes	No
08	Update info	Yes	No
09	Profile	Yes	Yes
10	Logout	Yes	Yes

The table: 3.1 represents the design requirement of this project. It shows the parameters of user and admin page. As per the table the Parameters of registration, password change, view, log in page, profile and logout are Yes / Positive on both Admin and User page. For user service, hotel update, take action, update info at Admin page its Yes but for User page it's No.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Project Overview

4.1.1 Home page

The Fig: 4.1 narrates the Homepage of the app. User can firstly view this page and see the all hotels that are already visible in their home page.

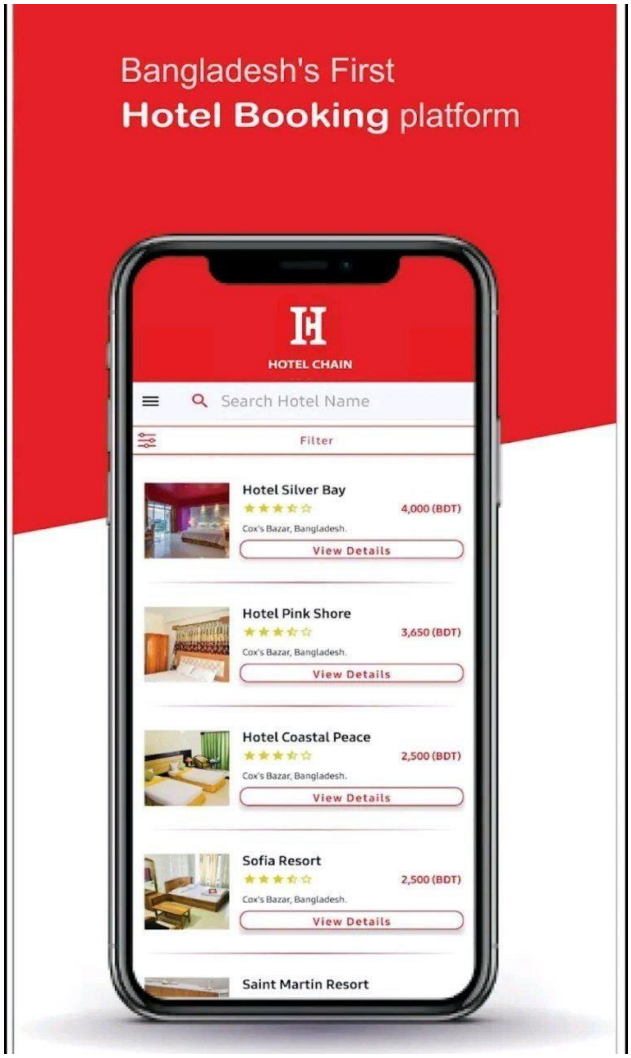


Fig 4.1: Home page

4.1.2 Login/Registration page

The Fig: 4.2 represents the Login / Registration page of the app. User will able to Login or Signup from this page. They can login from their google account directly.

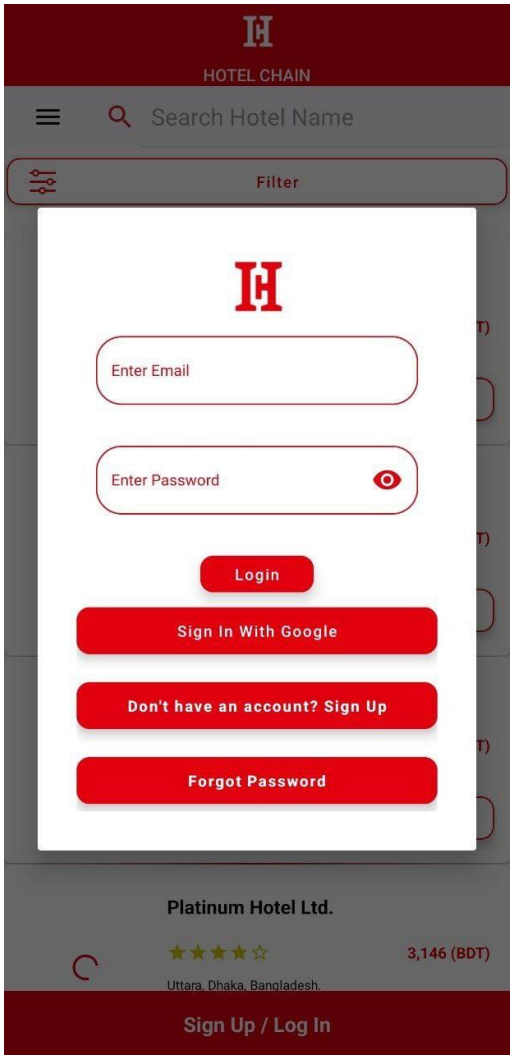


Fig 4.2: Login/Registration page

4.1.3 User profile page

The Fig: 4.3 performs the User profile of the app. This is the user profile page. User can update/change his/her profile picture, password, phone number, address at any time from this page.

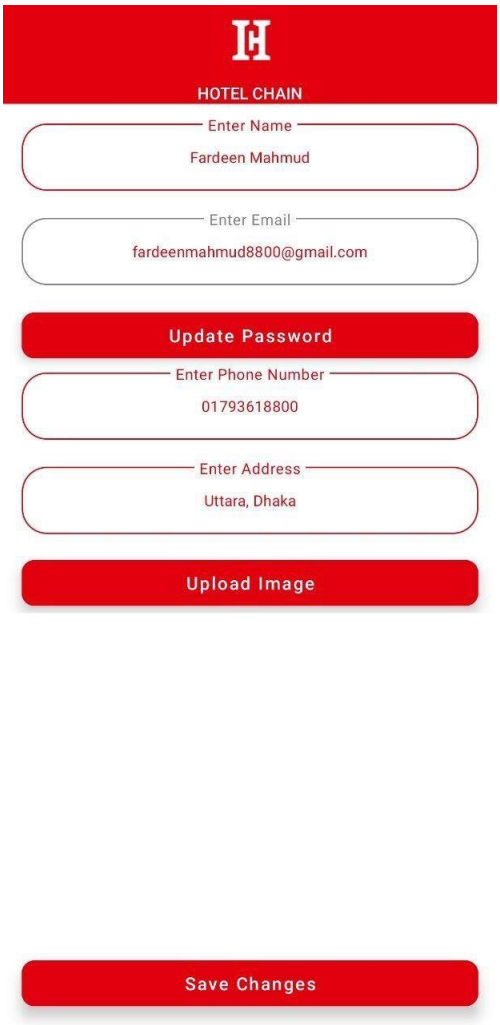


Fig 4.3: User profile page

4.1.4 Filter Option

The Fig: 4.4 describes Filter Option. This is the filter page, from where user can filter their travel location and budget to choose their suitable hotels.

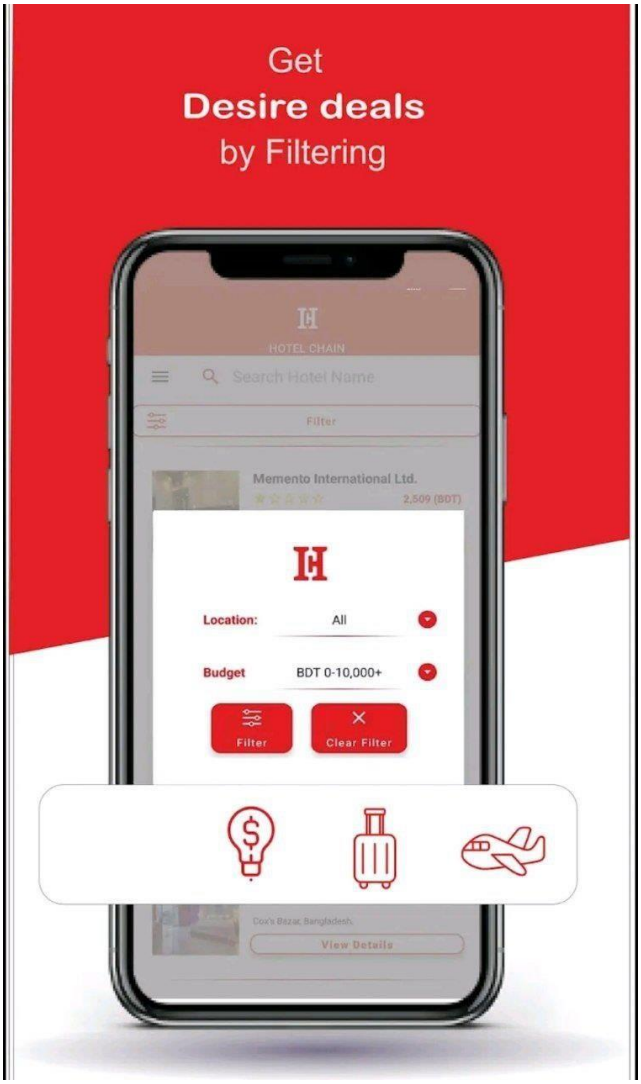


Fig 4.4: Filter Option.

4.1.5 Hotel Profiles

The Fig: 4.5 represents the Hotel Profiles. This are the hotel profiles that shows hotels: rating, price, quality, location also thumbnail picture for better understanding.

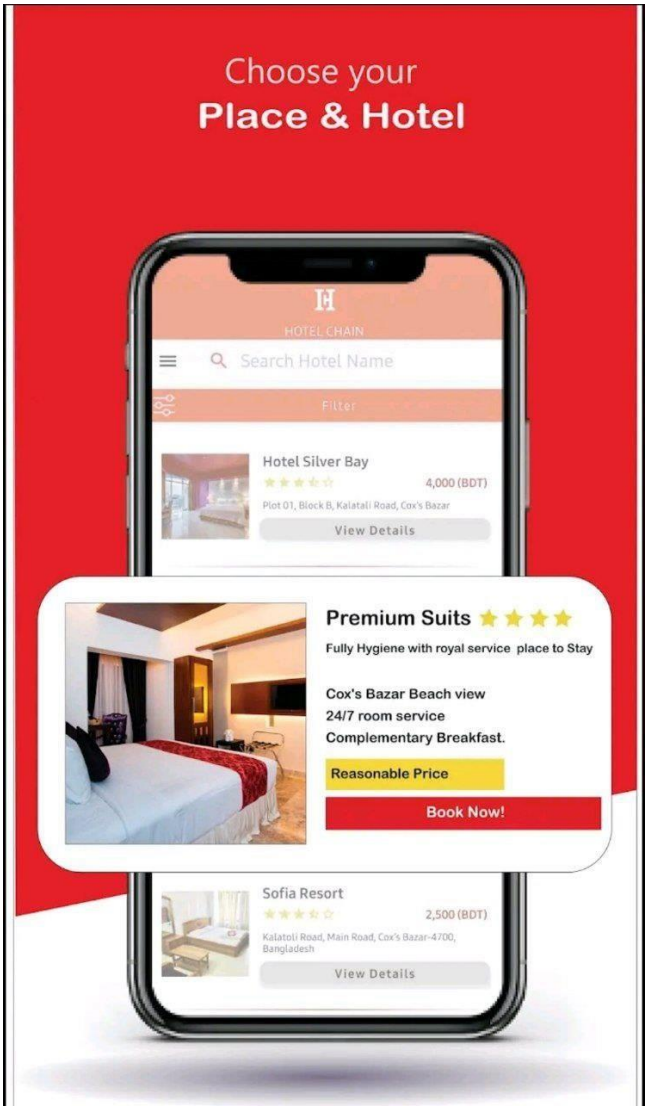


Fig 4.5: Hotel Profiles

4.1.6 See on Map & Get Directions

The Fig: 4.6 represents the See on Map & Get Directions options. This is of redirects the user to the direct location of the hotel. So that the user can find their hotel easily and virtually.

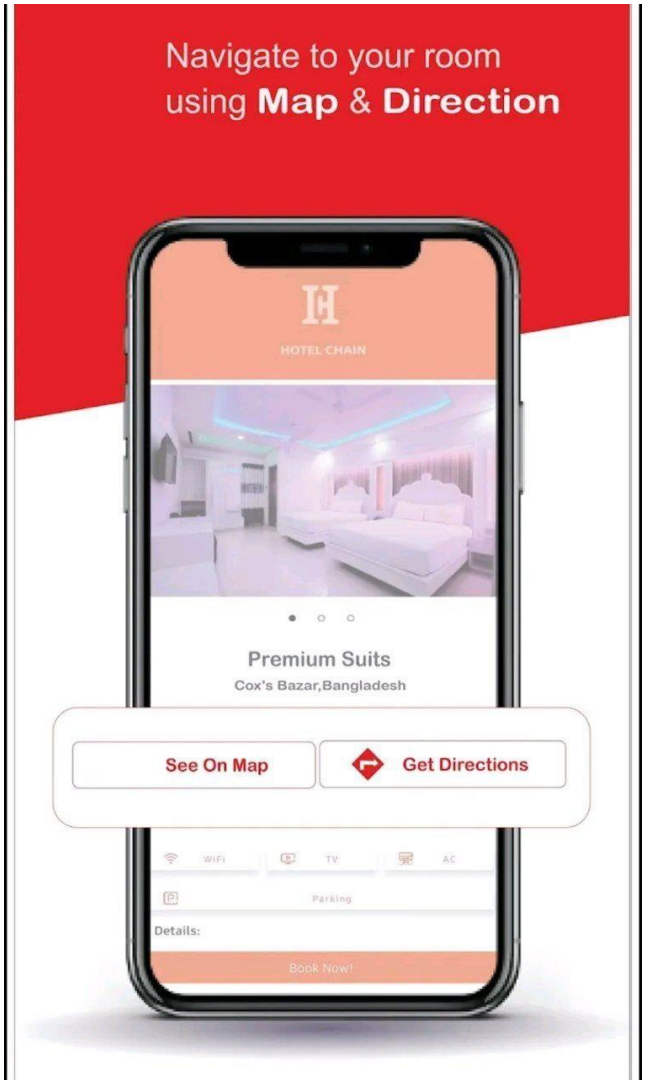


Fig 4.6: Hotel Profile

4.1.7 Add Room

The Fig: 4.7 represents the Add Room page. This page lets user to select their rooms, amount of guests. Also allows them to see the total price. They can add and remove rooms from here.

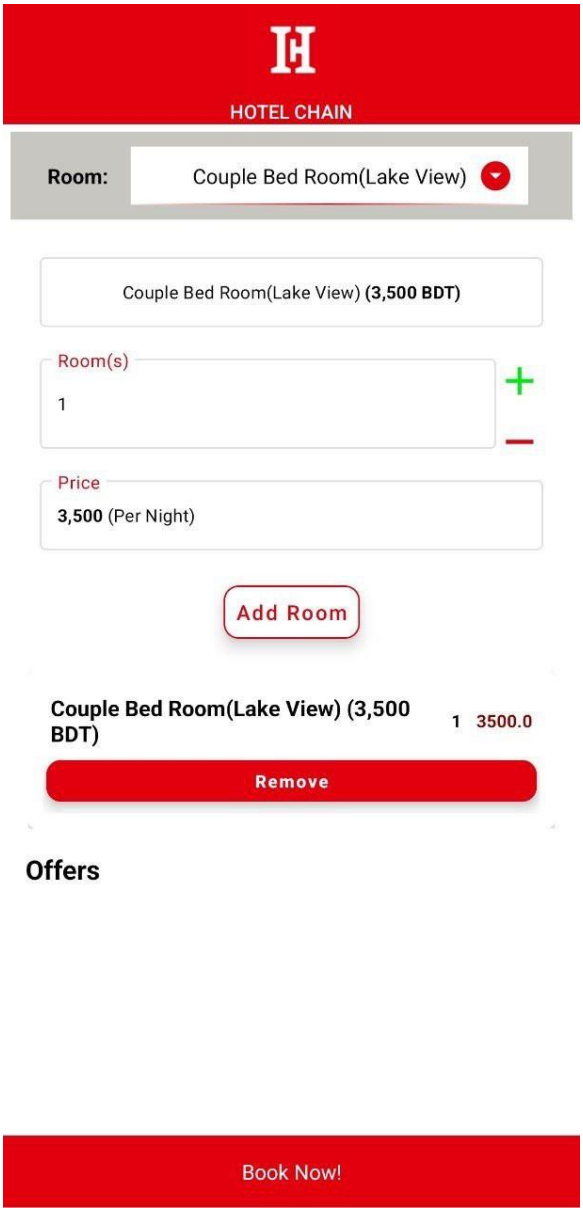


Fig 4.7: Add Room.

4.1.8 Calendar Page

The Fig: 4.8 represents the Calendar Page. From this page user selects their check in and check out dates.

Fig 4.8: Calendar.

4.1.9 Payment Invoice

The Fig: 4.9 represents the Payment Invoice page. This page shows the invoice or detailed pricing of a booking that user confirmed.

Fig 4.9: Payment Invoice.

4.1.10 Discounts

The Fig: 4.10 represents the Discount option. This option shows the offers or discounts that are available.

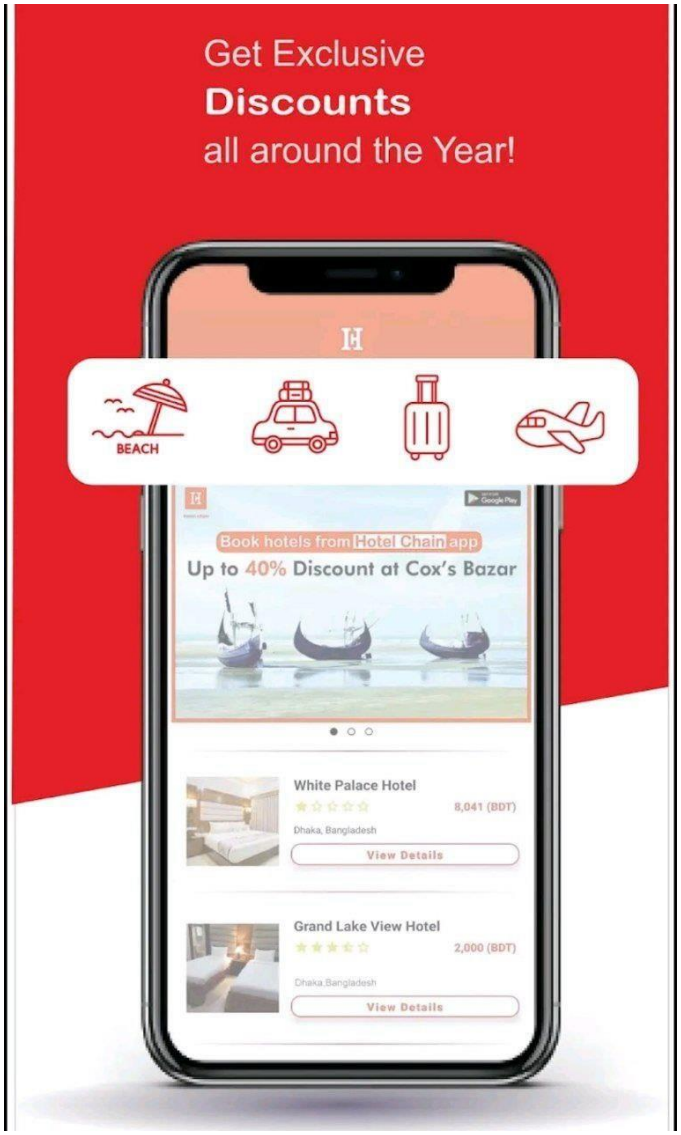


Fig 4.10: User order page

4.1.11 Helicopter Booking

The Fig: 4.11 represents the Helicopter Booking page. User will be able to book helicopter from this page. They will be able to book the helicopter for travel, function or even for ICU/CCU emergencies.

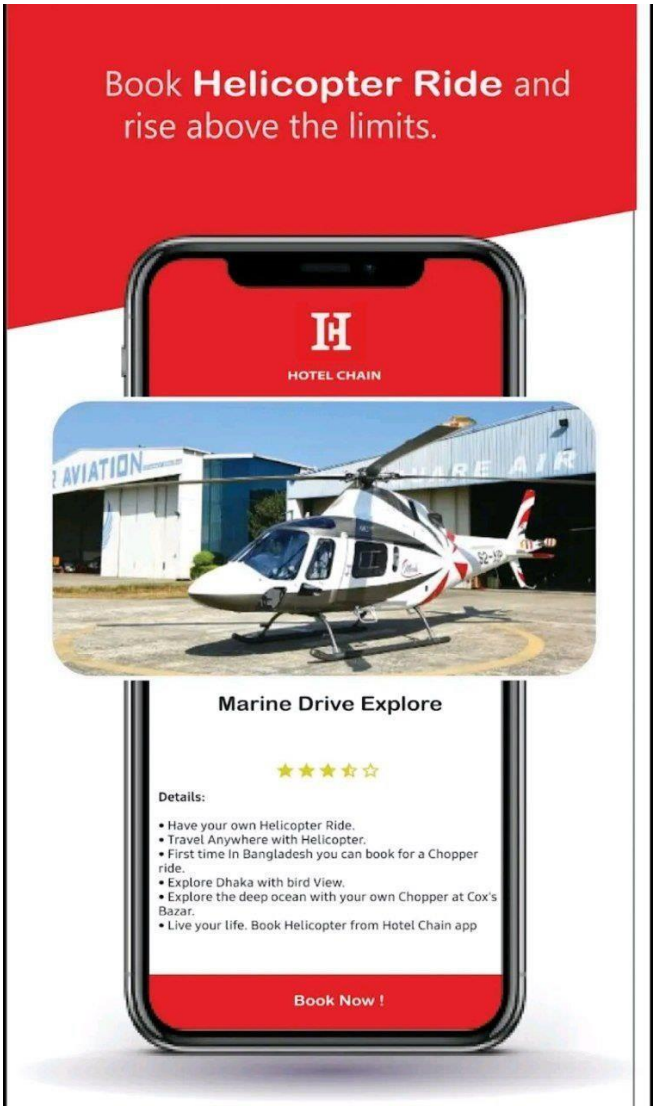


Fig 4.11: Helicopter Booking.

4.1.12 Menu-bar

The Fig: 4.12 represents the Menu-bar. This the main menu bar of the app that show the options:

1) Edit or verify profile.
2) Your Plans.
3) Your Payments.
4) Subscription.
5) Helicopter Rides.
6) Report & Suggestions.
7) Terms & Conditions.
8) Favorite Hotels.
9) Settings.
10) Contact Us.
11) Share App.
12) Sign Out

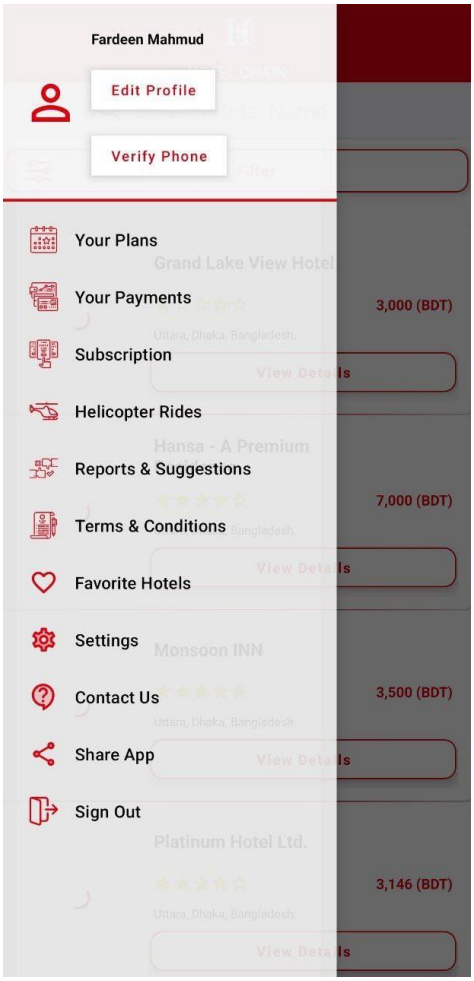


Fig 4.12: Dynamic chat

4.1.13 Admin Dashboard

The Fig: 4.13 represents the Admin Dashboard page. This is the main portal of the admin panel.

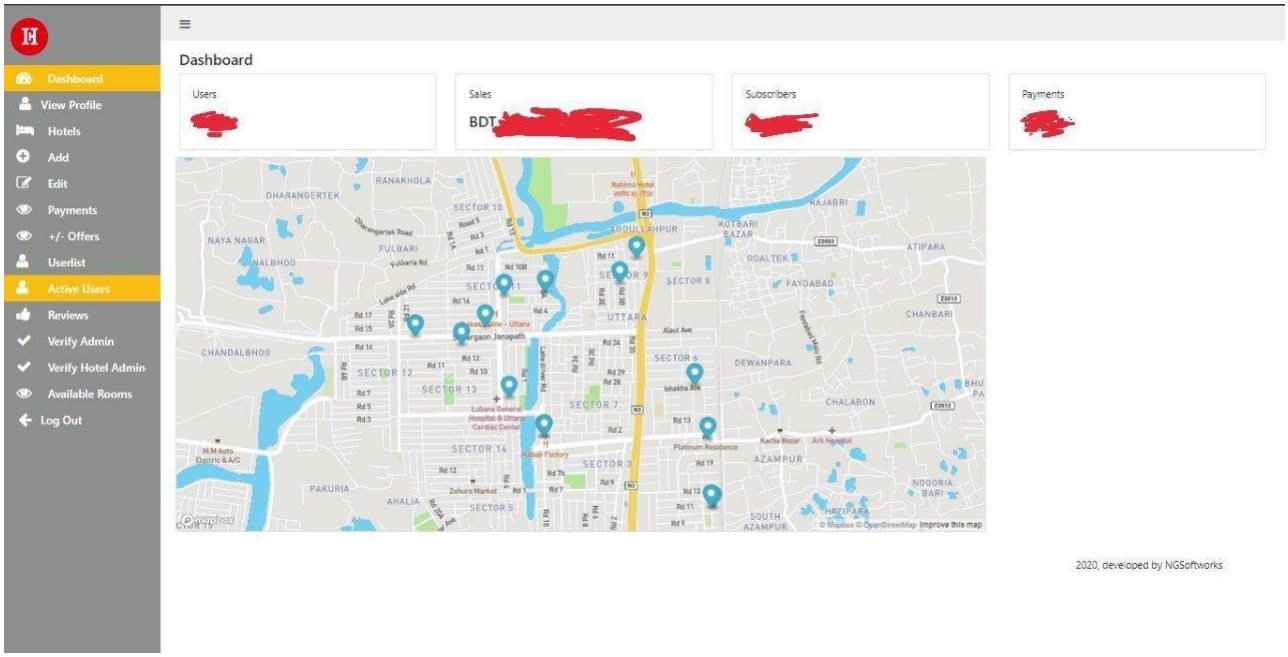
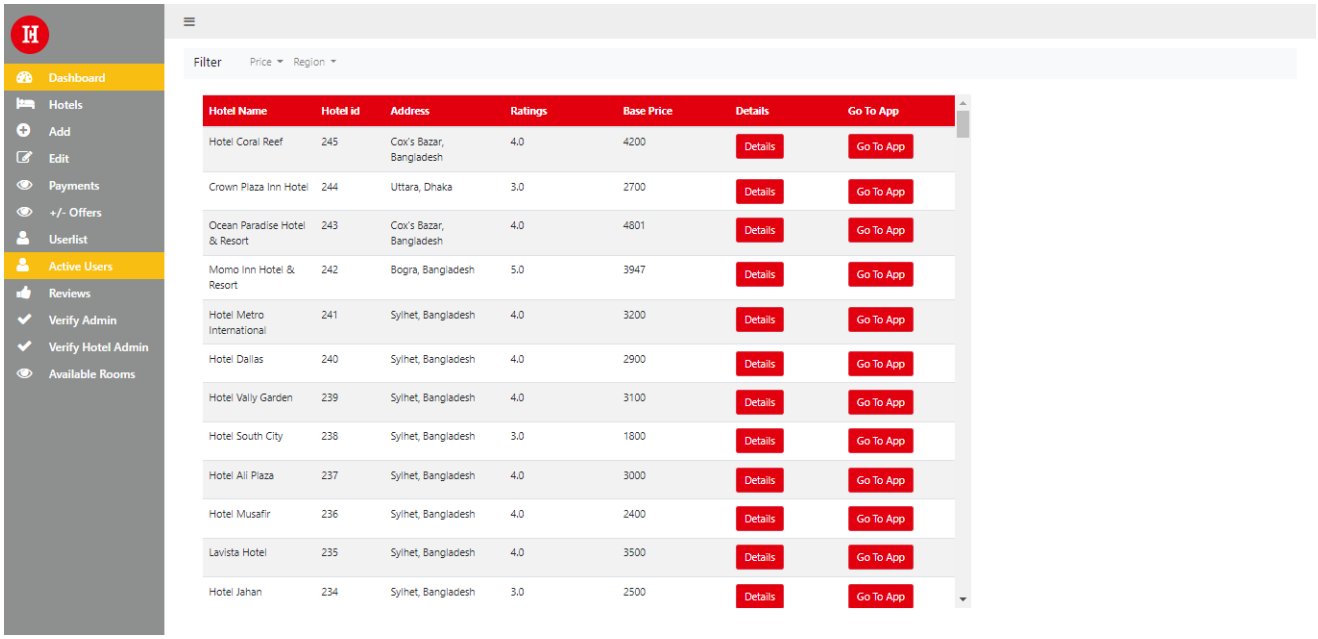


Fig 4.13: Admin Dashboard

4.1.14 Hotels Details

The Fig: 4.14 represents the Hotels Details page. This page shows all the hotels that are enlisted with Hotel Chain App and their details.



Hotel Name	Hotel id	Address	Ratings	Base Price	Details	Go To App
Hotel Coral Reef	245	Cox's Bazar, Bangladesh	4.0	4200	Details	Go To App
Crown Plaza Inn Hotel	244	Uttara, Dhaka	3.0	2700	Details	Go To App
Ocean Paradise Hotel & Resort	243	Cox's Bazar, Bangladesh	4.0	4801	Details	Go To App
Momo Inn Hotel & Resort	242	Bogra, Bangladesh	5.0	3947	Details	Go To App
Hotel Metro International	241	Sylhet, Bangladesh	4.0	3200	Details	Go To App
Hotel Dallas	240	Sylhet, Bangladesh	4.0	2900	Details	Go To App
Hotel Vally Garden	239	Sylhet, Bangladesh	4.0	3100	Details	Go To App
Hotel South City	238	Sylhet, Bangladesh	3.0	1800	Details	Go To App
Hotel Ali Plaza	237	Sylhet, Bangladesh	4.0	3000	Details	Go To App
Hotel Musafir	236	Sylhet, Bangladesh	4.0	2400	Details	Go To App
Lavista Hotel	235	Sylhet, Bangladesh	4.0	3500	Details	Go To App
Hotel Jahan	234	Sylhet, Bangladesh	3.0	2500	Details	Go To App

Fig 4.14: Hotel Details

4.1.15 Add Hotels

The Fig: 4.15 represents the Add Hotels page. From this page admins will be able to add & delete the hotels.

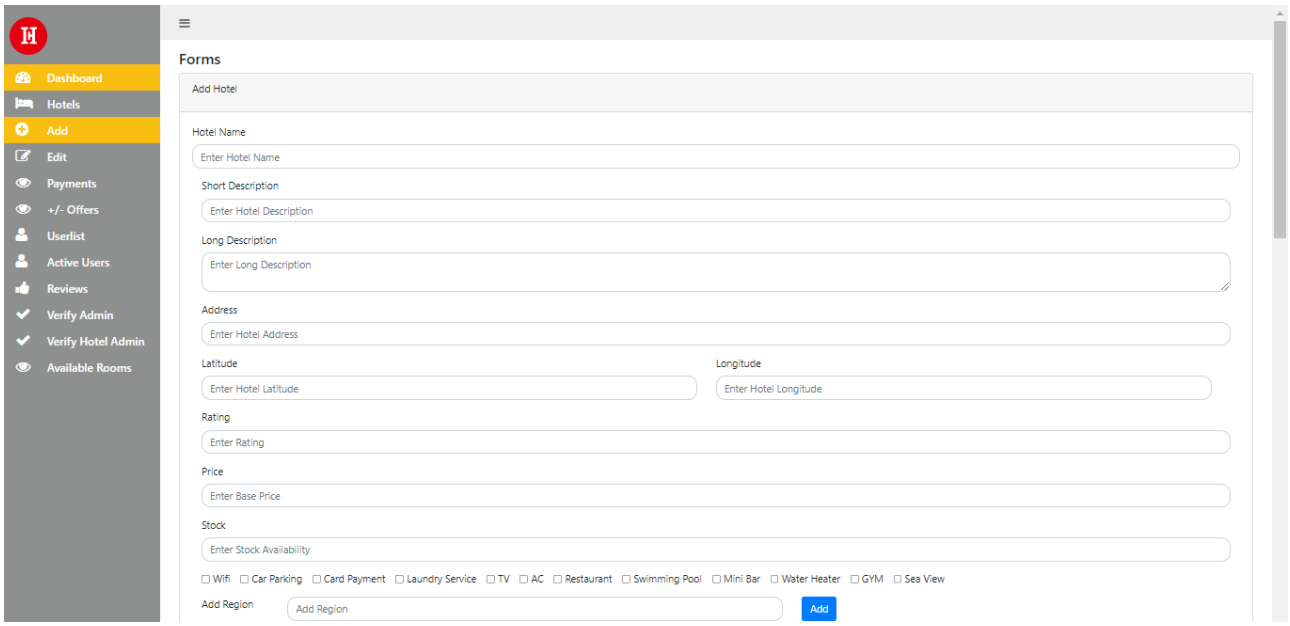


Fig 4.15: Add Hotels.

4.1.16 Edit Hotels

The Fig: 4.16 represents the Edit Hotels page. This page allows the admins to edit the hotel details at any time.

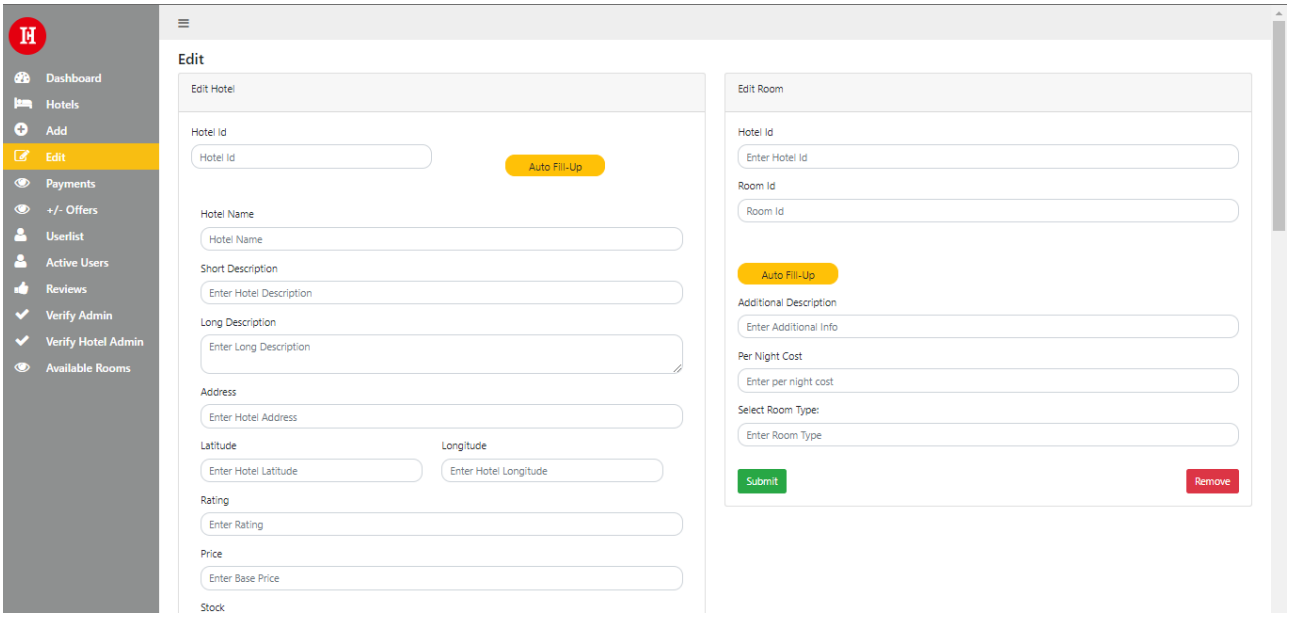


Fig 4.16: Edit Hotels.

4.1.17 Booking Confirmation

The Fig: 4.17 represents the Booking Confirmation page. This page allows the admins to confirm and cancel bookings. Admins can also see their customers booking details.

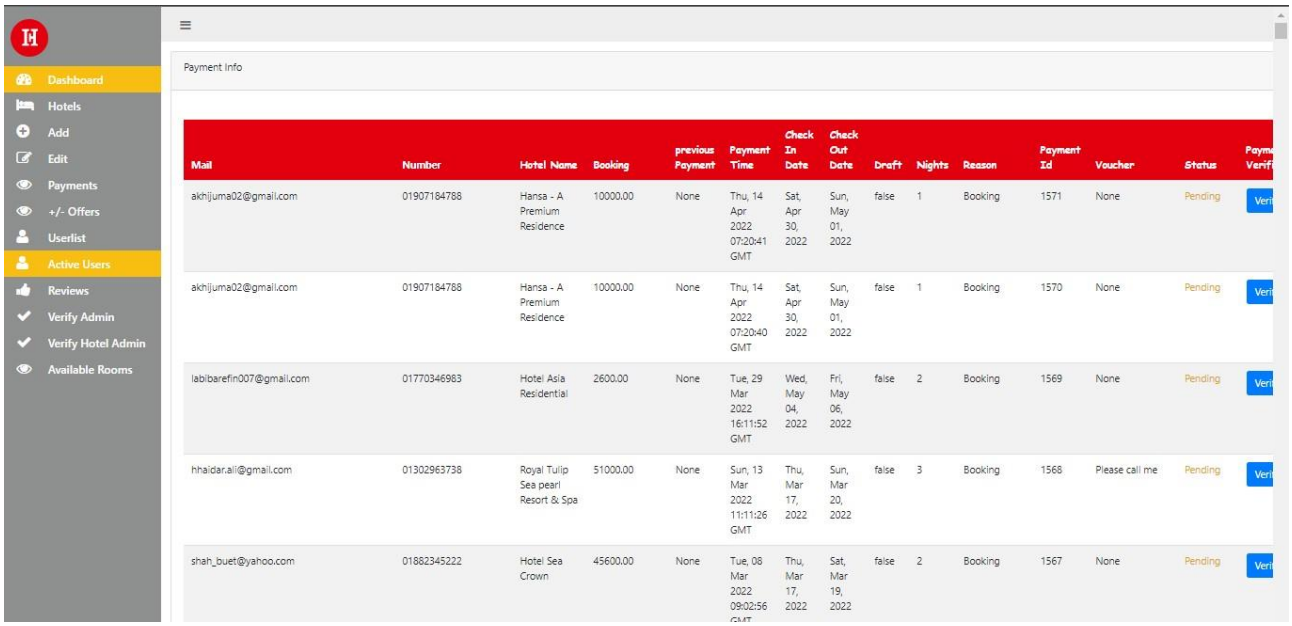


Fig 4.17: Booking Confirmation.

4.1.18 Adding Offers

The Fig: 4.18 represents the Adding Offers page. This page allows the admin to add newest offers.

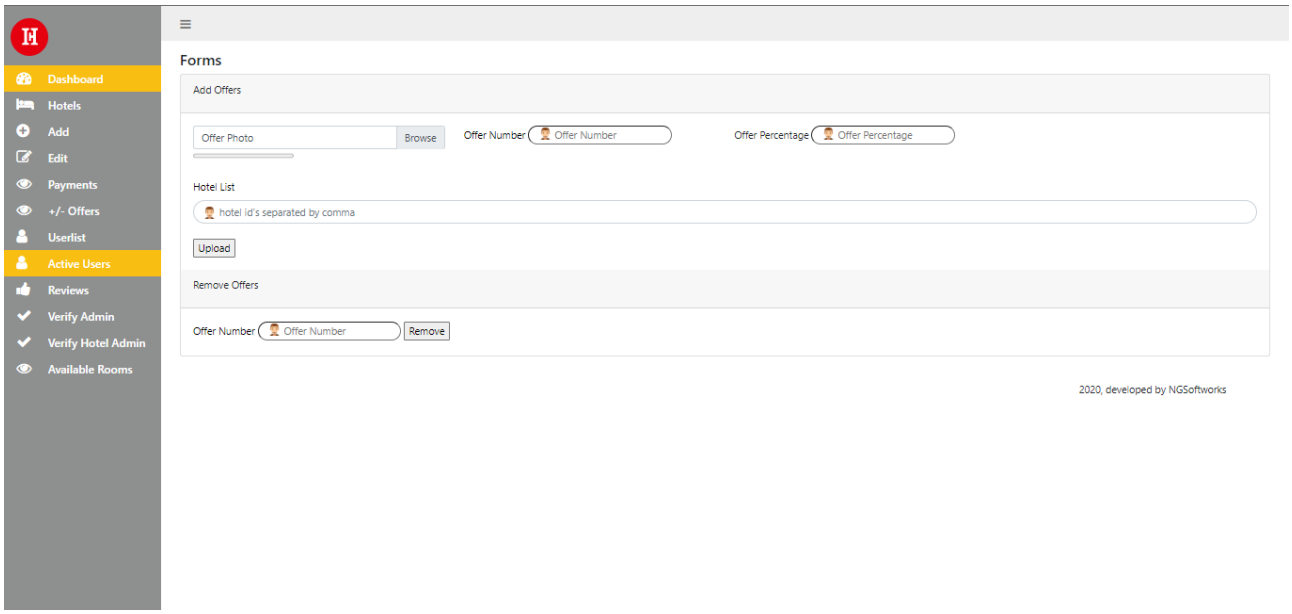


Fig 4.18: Adding Offers.

4.1.19 User-list

The Fig: 4.19 represents the User-list page. This page shows the user list vast of Hotel Chain App. User details and so on.

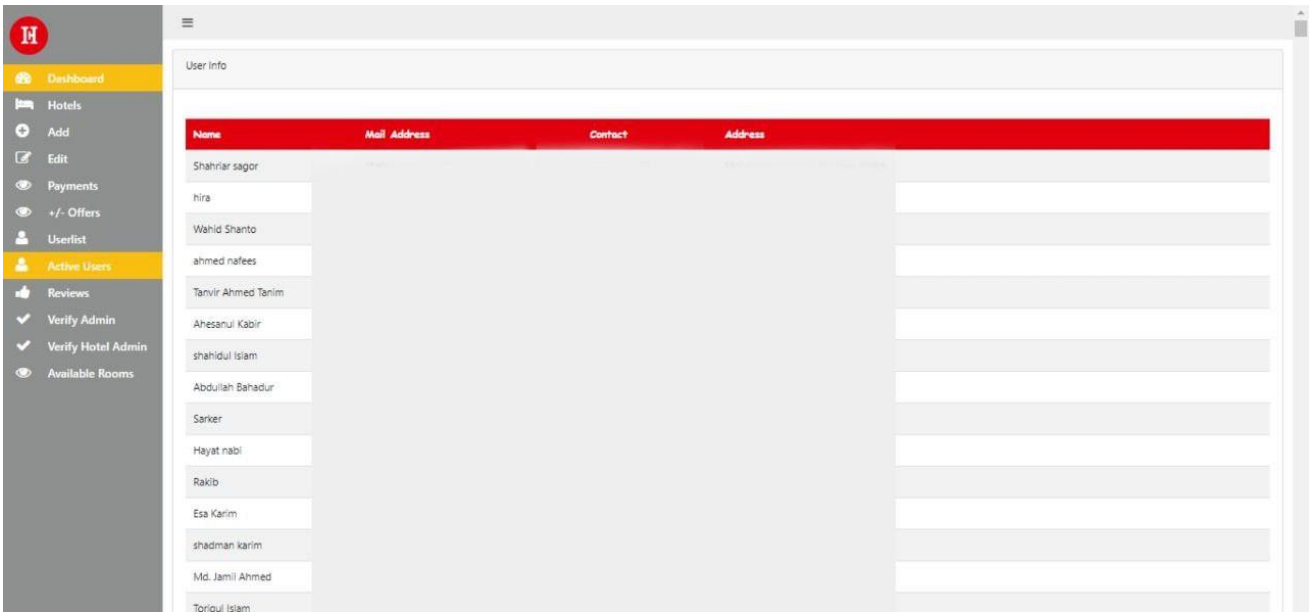


Fig 4.19: User-list.

4.1.20 Reviews

The Fig: 4.20 is Review page, that allows the admin to survey user reviews about the app and their stay.

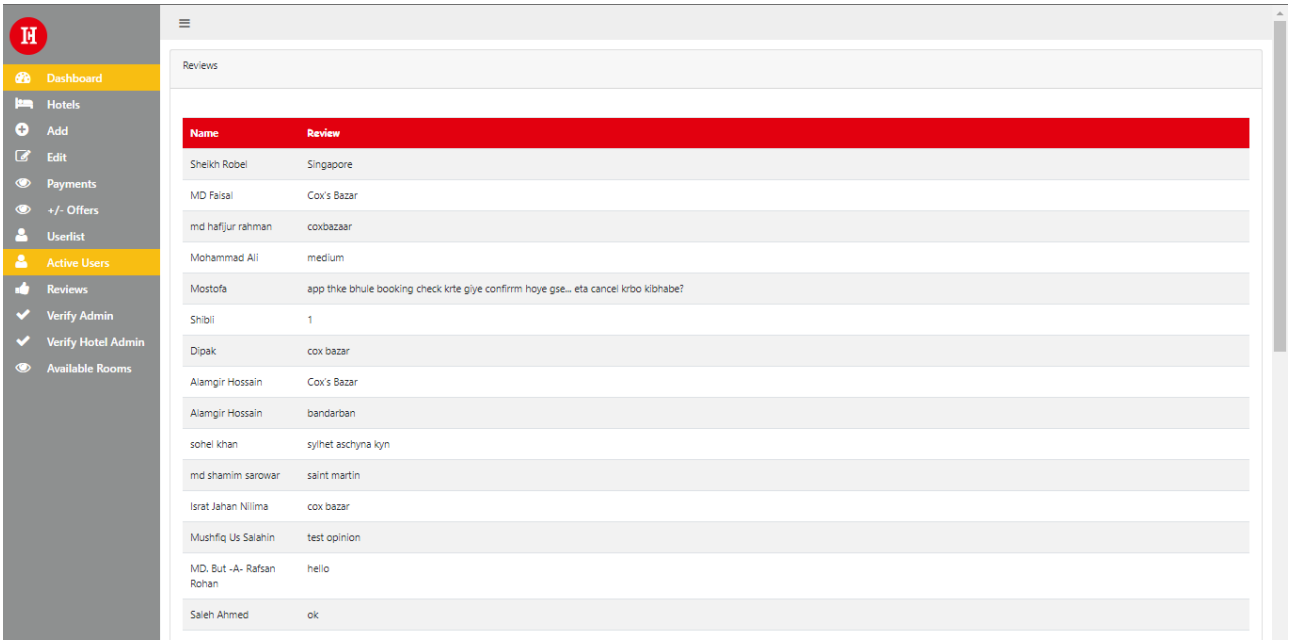


Fig 4.20: Reviews.

4.1.21 Available Rooms

The Fig: 4.21 represents the Available Rooms page. This page shows the room availability of the hotels.

The availability helps the user to know and book about the hotel from the app.

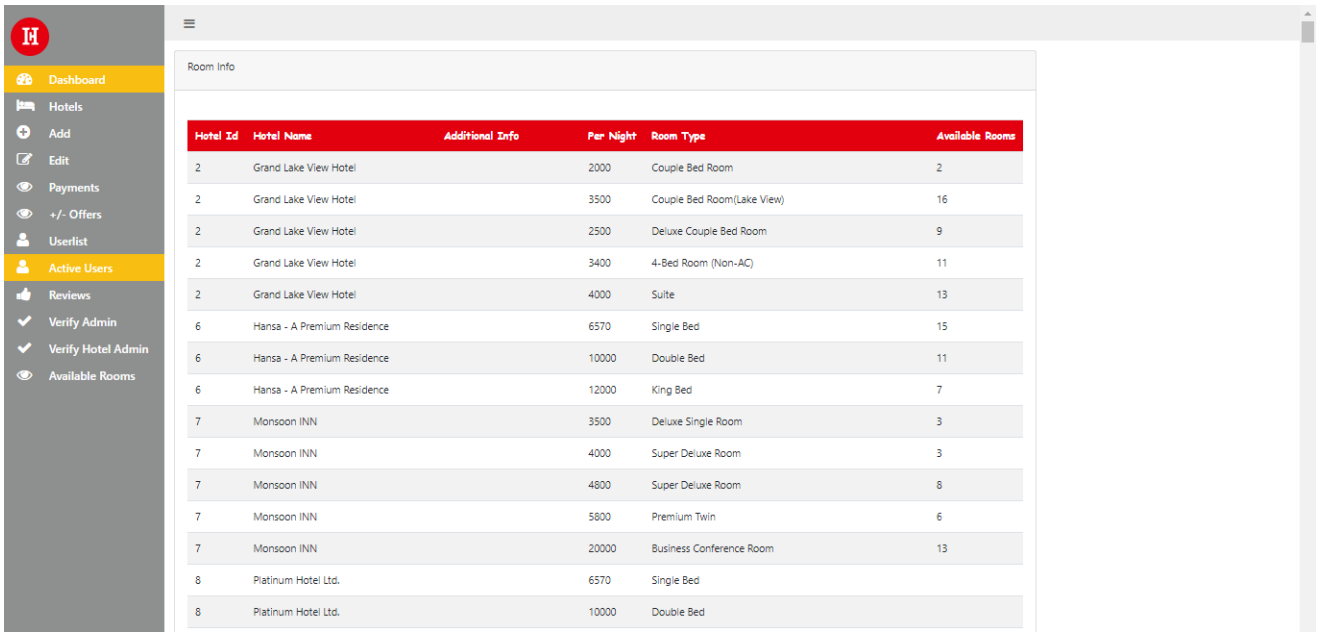
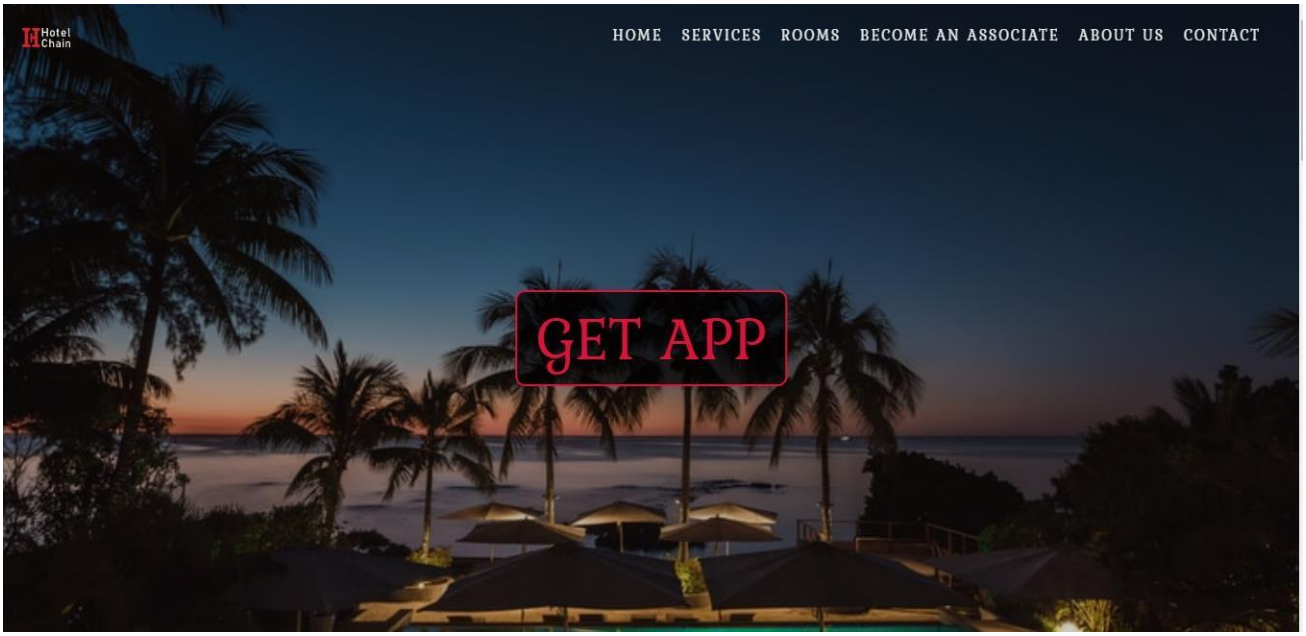
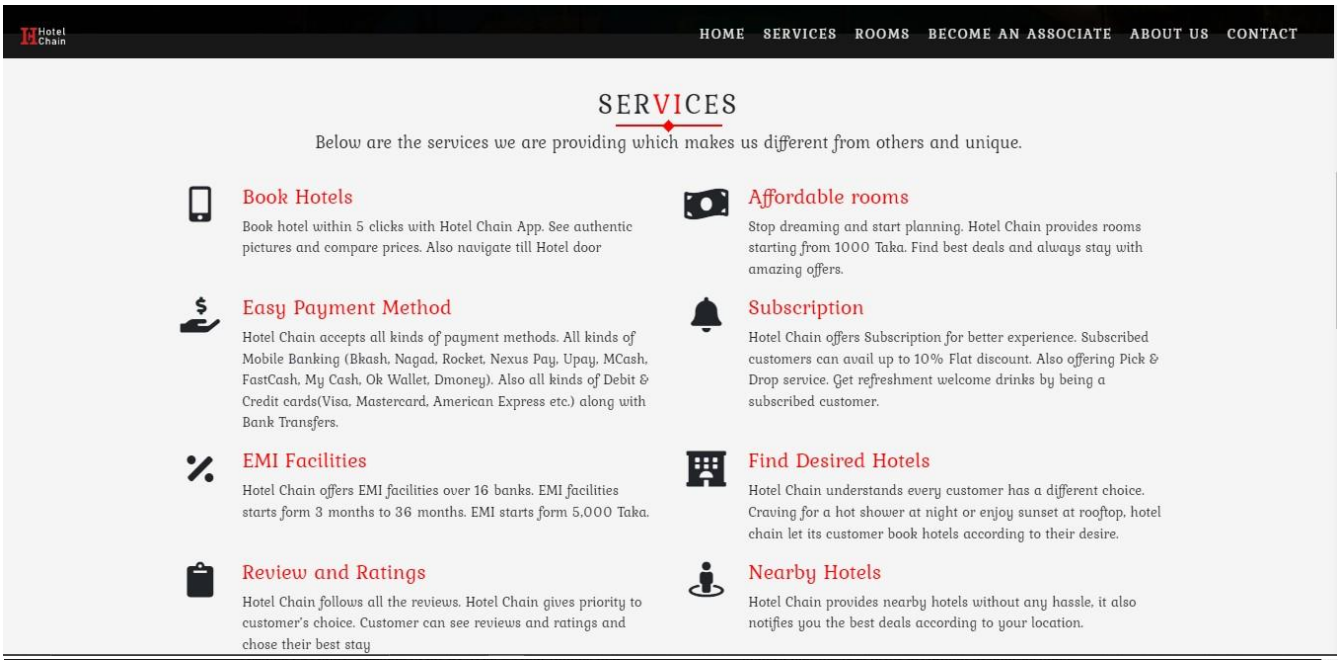


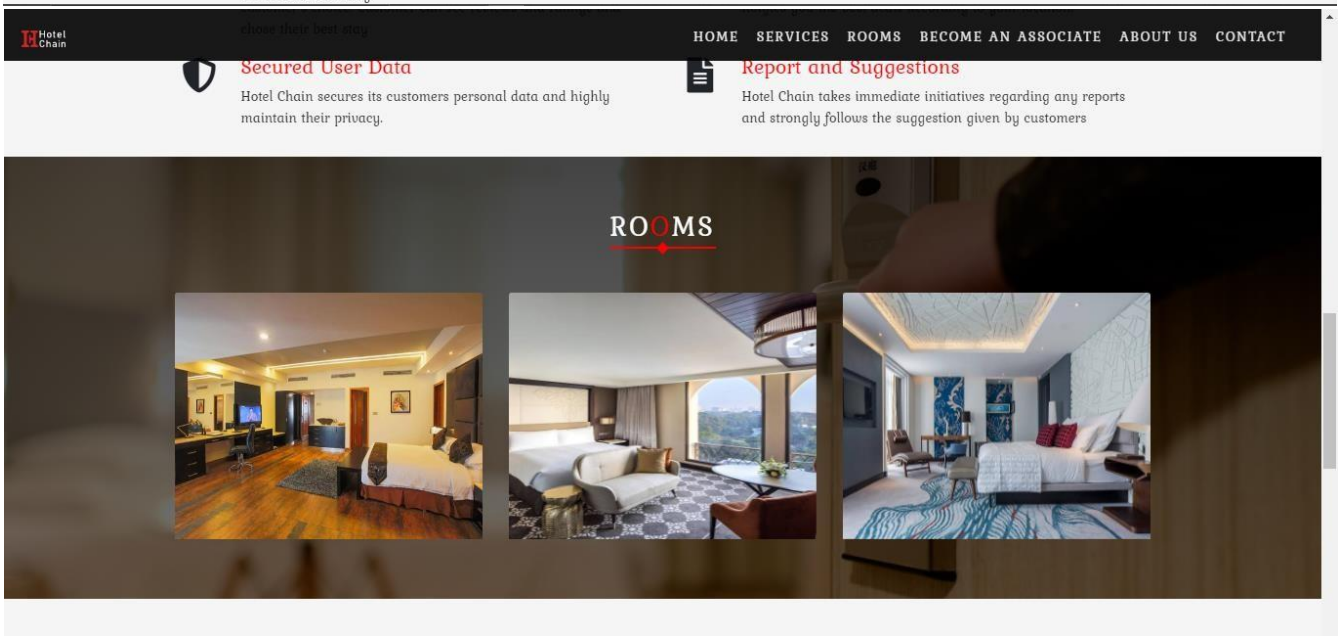
Fig 4.21: Available Rooms.

4.1.22 Website

The Fig: 4.22 represents the website of “Hotel Chain App” The website is for the customers and the clients to know about hotel chain app. It gives an overall description about hotel chain apps features, hotels, offers. The “Get App” redirects one to the play-store site of hotel chain app, from where they will be able to download the app.




Hotel Chain
HOME SERVICES ROOMS BECOME AN ASSOCIATE ABOUT US CONTACT
SERVICES
Below are the services we are providing which makes us different from others and unique.
Book Hotels
Book hotel within 5 clicks with Hotel Chain App. See authentic pictures and compare prices. Also navigate till Hotel door
Affordable rooms
Stop dreaming and start planning. Hotel Chain provides rooms starting from 1000 Taka. Find best deals and always stay with amazing offers.
Easy Payment Method
Hotel Chain accepts all kinds of payment methods. All kinds of Mobile Banking (Bkash, Nagad, Rocket, Nexus Pay, Upay, MCash, FastCash, My Cash, Ok Wallet, Dmoney). Also all kinds of Debit & Credit cards(Visa, Mastercard, American Express etc.) along with Bank Transfers.
Subscription
Hotel Chain offers Subscription for better experience. Subscribed customers can avail up to 10% Flat discount. Also offering Pick & Drop service. Get refreshment welcome drinks by being a subscribed customer.
EMI Facilities
Hotel Chain offers EMI facilities over 16 banks. EMI facilities starts form 3 months to 36 months. EMI starts form 5,000 Taka.
Find Desired Hotels
Hotel Chain understands every customer has a different choice. Craving for a hot shower at night or enjoy sunset at rooftop, hotel chain let its customer book hotels according to their desire.
Review and Ratings
Hotel Chain follows all the reviews. Hotel Chain gives priority to customer's choice. Customer can see reviews and ratings and chose their best stay
Nearby Hotels
Hotel Chain provides nearby hotels without any hassle, it also notifies you the best deals according to your location.


Hotel Chain
HOME SERVICES ROOMS BECOME AN ASSOCIATE ABOUT US CONTACT
Secured User Data
Hotel Chain secures its customers personal data and highly maintain their privacy.
Report and Suggestions
Hotel Chain takes immediate initiatives regarding any reports and strongly follows the suggestion given by customers
ROOMS

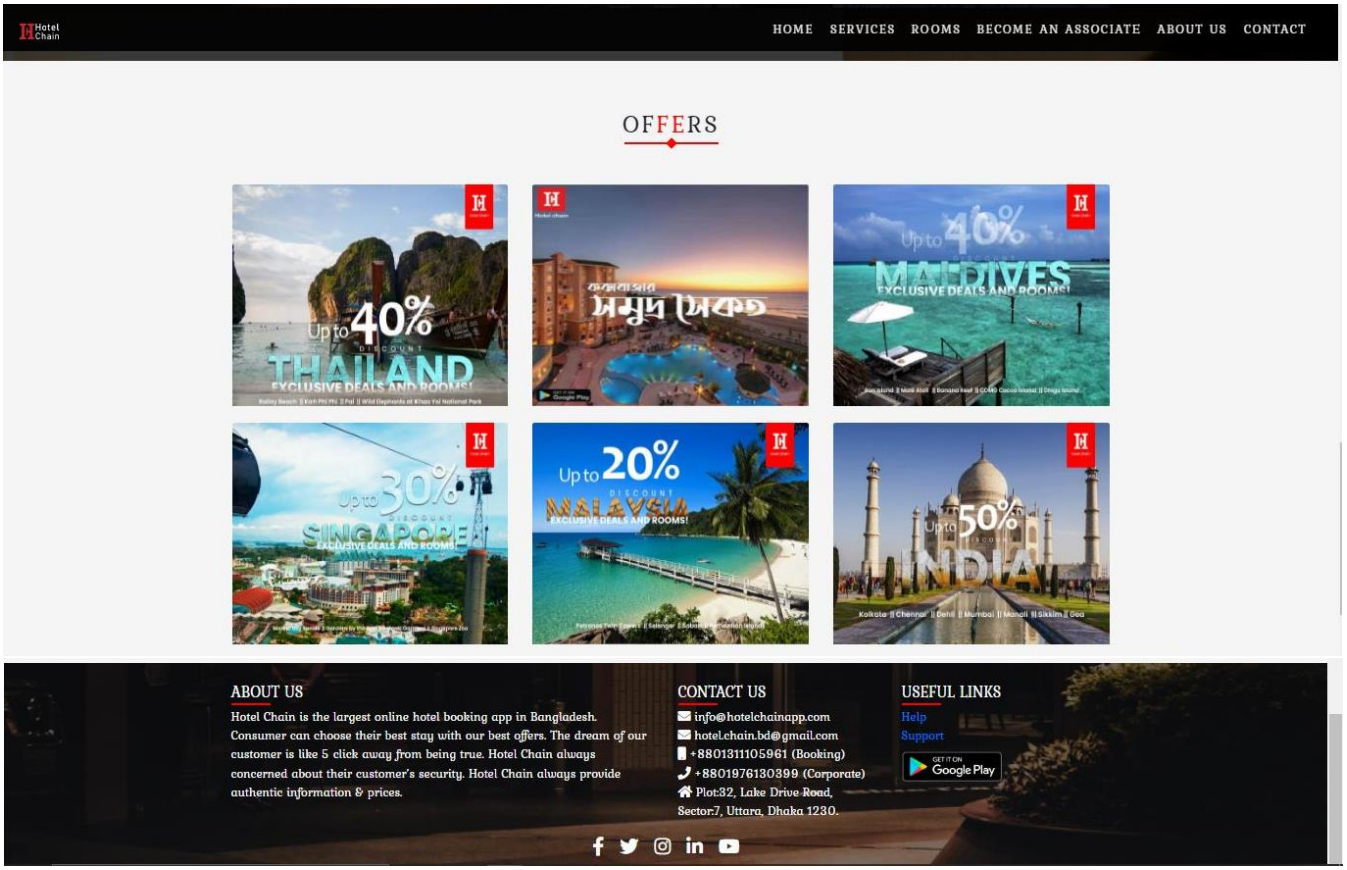


Fig 4.22: Website.

The website also has the contact information of Hotel Chain App. The offer option let's one to know about the recent offers of each location's hotels. This information gets updated constantly. The rooms option shows us the various types of rooms. Again, the services show the services that are provided by Hotel Chain App.

4.2 PHP

PHP is a scripting language used for web development. It was originally created by Danish-Canadian programmer named Rasmus Lerdorf in 1993 and released in 1995. This languages reference is now produced by The PHP Group.

4.3 Bootstrap

Bootstrap is a framework used for creating websites. It makes website making more easier and faster. It helps by providing the design templates for forms, buttons, tables, navigation, images and more in HTML and CSS.

4.4 Java-script

The short form of Java Script is JS, It's a programming language.JS is a popular programming language. As of 2022, 98% of websites on client sides use Java Script. Every major web browsers have Java Script engine that are dedicated for them.

4.5 Database

Firebase is a set of hosting services for any type of application (Android, iOS, Javascript, Node.js, Java, Unity, PHP, C++ ...). It's a real time communication server. It provides NoSQL, notification service and so on.

4.6 Java

Java is a high-level, class-based, object-oriented programming language with a low number of implementation dependencies. It is a general-purpose programming language designed to allow programmers to write once and run everywhere (WORA), which means that generated Java code may run on any platform that supports Java without the need for recompilation. Java programs are often compiled to bytecode that can run on any Java virtual machine (JVM), independent of computer architecture.

CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Database table for the different purpose

The Fig: 5.1 represents Database table. This is the database of the app. This data base has all the data stored in it. The room number, booking & every actions that are taken by the app and dashboard are stored here. The data's are complex as the actions are taken more often.

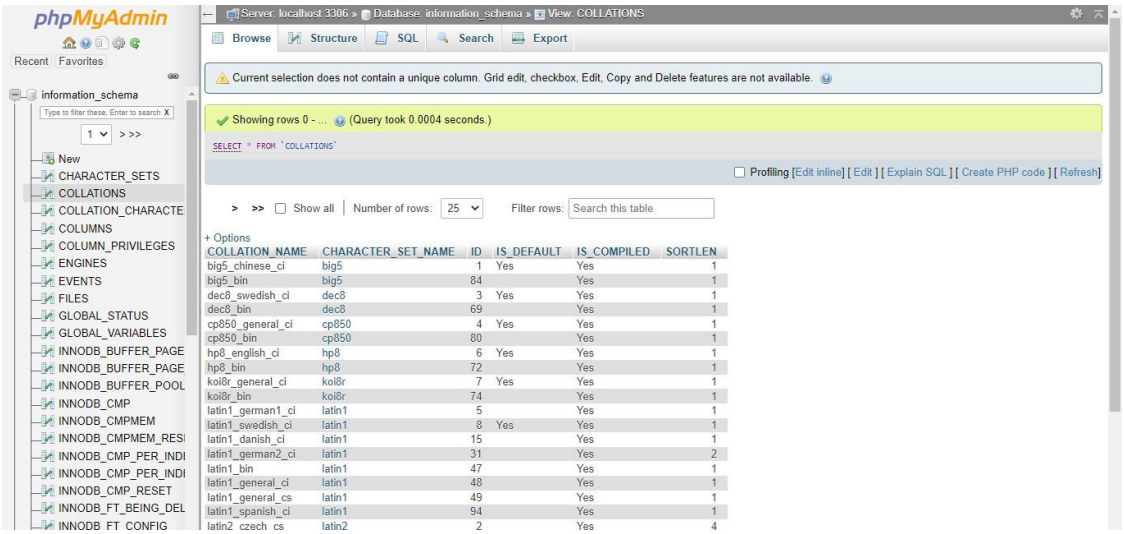


Fig 5.1: Database table

5.2 Test result of this project

These results are below:

- Easy to handle.
- Security level is fine.
- User friendly.
- Customer satisfaction are huge.

CHAPTER 6

CONCLUSION

6.1 Conclusion

Doing this project we faced multiple problems. Problems and mismatches were the biggest problems. As we were new developer the project was difficult for us. As the app is connected on multiple platform development. People can't completely book from the app. And the app is under constant development. But along with all the obstacle we finally, were able to complete the project using our experiences also taking help from google and the internet. The project will help many by solving their hotel booking problems. People won't have to be worried about their hotel booking and their safety. Tour will be easier and fun now with Hotel Chain App.

6.2 Scope for future work

The app is under constant development. The future work scopes for the app are:

- Move to web based apps: As the app is now only available on android. We will be able to make it available at every platform by making it web-based app.
- Making it internationally more available: The app is available on all over Bangladesh & and at some parts of India, Maldives, Singapore, Bali. It is our sore vision to make it available at all the countries.
- Add more options: The app has many options but even though the app feels limited. So, more options like bus, train, flight ticket or booking will be added on the app in future.
- Making the interface smoother: The app interface is on good but it needs to be better. So, we will work on the interface more and make it smoother along with more desirable or attractive.
- Adding more hotels and regions: More hotels and regions will be add on the app in future. As the user grows more regions will be available for them.
- More Secure: The app is secure but with the growing users the app will have more data. So, the app will have to be more secure. The data's and user privacy needs to be assured. For that more security will be added on the app.

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[2] Hospitality Technology Ltd. "Hotel Booking Software and Property Management Systems" [online] 2009-2010, [cit. 2016-02-05]. Available from Internet: http://www.hotec.co.uk/hotec/homepage.aspx.

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Websites:

[1] Learn about Booking.com: <<https://www.booking.com/content/about.html>>

[2] Website link of Hotel Chain App: << https://www.hotelchainapp.com>>

App:

[1] Hotel Chain App's Play-store Link:
<< https://play.google.com/store/apps/details?id=com.ngsoftworks.hotelchain&hl=en>>

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