

# **Horizon Travels and Tours**

# **Management System**

## **Project Report**

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## **DECLARATION**

"To the best of my knowledge and belief, this project does not contain any material that I or anyone else has previously published or written, apart from instances where appropriate citation is made within the text. I further attest that no material that I have previously submitted for a diploma in any institution has been included without acknowledgment. I also agree that my project report may be photocopied, loaned between libraries, and have its title and summary made available to outside organisations, should it be accepted."

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## **TABLE OF CONTENT**

<b>DECLARATION .....</b>	2
<b>ACKNOWLEDGEMENT.....</b>	3
<b>LIST OF TABLES .....</b>	6
<b>LIST OF FIGURES .....</b>	7
<b>CHAPTER-01 INTRODUCTION.....</b>	8
<b>1.1 Background.....</b>	9
<b>1.2 Problem Statement .....</b>	11
<b>1.3 Aim and Objective .....</b>	12
<b>1.4 Scope of Study .....</b>	14
<b>1.4.1 Introduction.....</b>	14
<b>1.4.2 Project Description .....</b>	14
<b>1.4.3 Stakeholders .....</b>	14
<b>1.4.4 System Capabilities.....</b>	14
<b>1.4.5 System Limitations .....</b>	15
<b>1.4.6 Expected System Behaviour.....</b>	15
<b>1.4.7 Conclusion.....</b>	15
<b>1.5 Methodology .....</b>	16
<b>1.5.1 Planning and Reservation System: .....</b>	16
<b>1.5.2 Tour Management and Operations:.....</b>	16
<b>1.5.3 Travel Experience Enhancement: .....</b>	16
<b>1.6 Gantt Chart .....</b>	18
<b>1.6.1 Project Schedule .....</b>	18
<b>1.6.2 Network Diagram .....</b>	18
<b>1.6.3 Grantt Chart.....</b>	19
<b>1.6.4 Critical Path .....</b>	19
<b>CHAPTER-02 ANALYSIS .....</b>	20
<b>2.1 Existing System.....</b>	20
<b>2.2 Major Activities and Functions.....</b>	21
<b>2.3 Drawback of the existing system .....</b>	25
<b>2.4 UML Diagrams.....</b>	26
<b>2.4.1 Use Case Diagram.....</b>	26
<b>2.4.2 Activity Diagram.....</b>	27
<b>2.4.3 Class Diagram .....</b>	28

<b>2.4.4 Sequence Diagram.....</b>	<b>29</b>
<b>2.4.5 ER Diagram .....</b>	<b>30</b>
<b>2.4.6 Flow Diagram.....</b>	<b>31</b>
<b>CHAPTER-03 DESIGN .....</b>	<b>51</b>
<b>    3.1 Proposed System .....</b>	<b>51</b>
<b>        3.1.1 System requirement .....</b>	<b>52</b>
<b>    3.2 Databases .....</b>	<b>53</b>
<b>    3.3 Interfaces.....</b>	<b>57</b>
<b>CHAPTER -04 CONCLUSION.....</b>	<b>81</b>

## **LIST OF TABLES**

Table 1: Project Schedule.....	18
Table 2: Full Database .....	53
Table 3: User Login Details Table .....	53
Table 4: Customer Details Table.....	54
Table 5: Package Details Table.....	54
Table 6: Hotel Details Table .....	55
Table 7: Bill Details Table .....	55
Table 8: Travelling Details Table.....	56
Table 9: Flight Details Table.....	56

## **LIST OF FIGURES**

Figure 1: Network Diagram .....	18
Figure 2: Gannt Chart .....	19
Figure 3: Use Case Diagram .....	26
Figure 4: Activity Diagram .....	27
Figure 5: Class Diagram.....	28
Figure 6: Sequence Diagram .....	29
Figure 7: ER Diagram .....	30
Figure 8: Login Flow Chart.....	31
Figure 9: View Dashboard Flow Chart .....	32
Figure 10: Add Customer Details Flow Chart.....	33
Figure 11: Update Customer Details Flow Chart.....	34
Figure 12: Delete Customer Details Flow Chart .....	35
Figure 13: Print Customer Details Flow Chart .....	36
Figure 14: Add Package details Flow Chart ( Add, Update, Delete) .....	37
Figure 15: Book Package Details Flow Chart .....	38
Figure 16: View Packages Details Flow Chart.....	39
Figure 17: Print Package Details Flow Chart.....	40
Figure 18: Add Hotel Details Flow Chart.....	41
Figure 19: Manage Hotel Details Flow Chart.....	42
Figure 20: Book Hotel Flow Chart.....	43
Figure 21: Payment Flow Chart .....	44
Figure 22: Print Bill Flow Chart.....	45
Figure 23: Add Travelling Details Flow Chart.....	46
Figure 24: Manage Travelling Details(Update, Delete) Flow Chart .....	47
Figure 25: View Travelling Details & Book a Flight Flow Chart.....	48
Figure 26: Print Travelling Details Flow Chart .....	49
Figure 27: Logout Flow Chart.....	50
Figure 28: OPean Application (Loading) Interface.....	57
Figure 29: Login Interface .....	58
Figure 30: Dashboard Interface.....	59
Figure 31: Add Customer Details Interface .....	60
Figure 32: Add Image for Customer Details Interface .....	61
Figure 33: Update Customer Details Interface .....	62
Figure 34: Delete Customer Details Interface .....	63
Figure 35: Print Customer Details Interface .....	64
Figure 36: Add Package details Interface.....	65
Figure 37: Update Package Details Interface .....	65
Figure 38: Delete Package Details InterFace .....	66
Figure 39: View Package Details Interface .....	66
Figure 40: Print Package Details Interface .....	67
Figure 41: Add Hotel Details Interface .....	67
Figure 42: Update Hotel Details Interface .....	68
Figure 43: Delete Hotel Details Interface.....	68
Figure 44: View Hotel Details Interface .....	69
Figure 45: Book Hotel Details Interface .....	70

Figure 46: Payment (Card Details) Interface .....	71
Figure 47: Bill Statement Interface .....	72
Figure 48: Add Print Details Interface .....	73
Figure 49: Print Bill Interface .....	74
Figure 50: Print Bill Interface (After Click print Button) .....	74
Figure 51: Add Travelling Details Interface .....	75
Figure 52: Update Travelling Details Interface .....	76
Figure 53: Update Travelling Details Interface .....	76
Figure 54: Book a Flight Interface.....	77
Figure 55: Add Details For Booking a Flight Interface.....	78
Figure 56: Booking a flight Successful Interface .....	79
Figure 57: Logout Interface .....	80

## **CHAPTER-01 INTRODUCTION**

A comprehensive software programme that helps users plan, organise, and maximise their trip experiences is called a travel and tours management system. Features including itinerary planning, booking management, tracking expenses, destination details, and travel alerts are usually included. These systems can be accessed via a mobile application, a website, or both. A few popular travel and tour management platforms are Airbnb, TripAdvisor, and Expedia.

## **1.1 Background**

The travel and tourism sector are expanding exponentially in today's fast-paced world. More individuals are travelling for business, pleasure, education, and other reasons because of globalisation. To meet the varied needs of both tourists and tour operators, this rise in travel necessitates the development of effective and dependable management systems.

Horizon Travels and Tours has created a state-of-the-art travel and tour management system in response to this increasing demand. Our platform streamlines the whole travel experience, from itinerary planning to booking, and from on-the-go help to post-trip feedback, by fusing cutting-edge technology with extensive functionality.

Administrators only have access to our system, which guarantees strong security and effective administration. The interface is easy to use for administrators to browse and makes travel planning simpler. They may easily handle all aspects of their booking, including travel, lodging, activities, and flights, from a single, central location. Administrators make customised recommendations based on user data analysis and sophisticated algorithms that are matched to the interests and preferences of individual travellers.

Our solution offers improved control and simpler processes, making it ideal for administrators. We save significant time and effort by combining travel plans into a single platform that is only used by administrators. This eliminates the need for in-depth investigation and multiple platforms booking. Our technology provides affordable solutions that let administrators make the most out of every journey and optimise their budgets. Administrators benefit from improved convenience and oversight when all travel information is available in one location, guaranteeing smooth operations. Furthermore, our technology ensures personalised experiences by attending to each traveller's specific needs and preferences. Administrators may rest easy knowing that help is always close by with dependable support and up-to-date information.

With an eye towards the future, Horizon Travels and Tours is committed to quality and innovation in the tourism sector. To give administrators, access to the best tools and

functions, we are dedicated to improving our travel and tour management system by implementing the newest innovations and market trends. Our objective is for a time when our platform becomes the industry standard for safe, effective, and adaptable travel management as the travel industry develops further. Horizon Travels and Tours is the go-to partner for administrators in a time when travel is not just a luxury but also a necessity. We are committed to advancing travel management via efficiency, creativity, and dependability.

## **1.2 Problem Statement**

The travel and tourism industry are rapidly evolving, with travellers seeking more personalized and seamless experiences. However, the current travel booking platforms often lack user-friendly interfaces, personalized recommendations, and real-time updates, leading to a disjointed and frustrating experience for customers. There is a growing need for a comprehensive solution that can address these pain points and enhance the overall travel and tour experience for travellers.

Our goal is to develop a cutting-edge travel booking platform that revolutionizes the way people plan and book their trips. This platform will leverage advanced technology to provide personalized recommendations based on user preferences, seamless booking experiences across multiple travel services, and real-time updates on travel itineraries and changes. By offering a one-stop solution for all travel needs, we aim to simplify the booking process and create a more enjoyable and stress-free experience for travellers.

Through in-depth research, user testing, and continuous feedback, we will ensure that our platform meets the evolving needs and expectations of modern travellers. By prioritizing user experience, convenience, and innovation, we are committed to setting a new standard in the travel and tourism industry and becoming the go-to platform for travellers worldwide.

### **1.3 Aim and Objective**

A travel and tour management system's purpose or mission can change based on the objectives of the company using it. Here are some shared goals and objectives, though:

- Efficiency: To increase overall efficiency, simplify the procedures for handling reservations, payments, and customer contacts related to bookings for travel and tours.
- Customer satisfaction can be increased by offering simple booking processes, tailored suggestions, prompt updates, and first-rate customer support all along the way.
- Cost reduction: Reducing operating expenses by optimising resources, which includes minimising manual labour, cutting errors, and making the most use of the resources that are already available.
- Increased Sales: Putting tactics into place to draw in new clients, offer extra services, and keep hold of current ones with loyalty plans or rewards.
- Market Expansion: Making use of the system to investigate new markets, connect with more people, and increase the geographic reach of the company.
- Data analysis and insights: By using the system's collected data to examine consumer preferences, industry trends, and company performance, data-driven decision-making for long-term planning and enhancements is made possible.
- Risk management: Including elements like emergency support, insurance, and backup plans to help manage hazards related to travel.
- Compliance: Making sure that industry rules and guidelines (such as those pertaining to safety, data privacy, and travel) are followed.
- Technology Adoption: To remain competitive in the travel and tourism sector, one must stay up to date with technological breakthroughs and implement creative solutions.
- Sustainability: Encouraging environmentally friendly travel options, cutting carbon emissions, and aiding local communities and conservation initiatives are some ways to promote sustainable tourism practices.

Together, these goals and objectives support the organization's vision and objectives while also advancing the overall performance and expansion of a travel and tour management system.

## **1.4 Scope of Study**

### **1.4.1 Introduction**

Provide an overview of the project, including its purpose, objectives, and significance. Explain why a travel and tour management system is essential for efficient operations.

### **1.4.2 Project Description**

Describe the travel and tour management system in detail. Highlight its main features, such as booking tours, managing reservations, handling payments, and providing customer support.

### **1.4.3 Stakeholders**

Identify the key stakeholders involved in the system:

- Customers: Those who book tours and use the system.
- Administrators: System managers responsible for maintaining data, managing bookings, and handling customer inquiries.
- Tour Operators: Entities offering tours and services through the system.

### **1.4.4 System Capabilities**

Outline what users (admin) with access to the system can do:

#### **Administrators,**

- Search and Browse Tours: Administrators can search for available tours based on criteria such as destination, date, and price.
- Customize customers details: Administrators can add, delete, update, and print customers details.
- Book Tours: Administrators can select and book tours online.
- View Booking History: Access their booking history and details.
- Manage Tours: Add, update, or remove tour packages.
- Handle Bookings: Confirm or cancel bookings made by customers.
- Manage Customer Data: Maintain customer profiles and booking records.
- Generate Reports: Extract data for analysis and decision-making.

- Only administrators can access this system.

#### **1.4.5 System Limitations**

Specify what users do not have access to:

- Financial Transactions: Customers cannot directly process payments through the system. They will be redirected to external payment gateways.
- Tour Guide Interaction: The system does not facilitate direct communication between customers and tour guides during tours.
- Access: customers can't access the system.

#### **1.4.6 Expected System Behaviour**

Define the system's expected behaviour:

- Reliability: The system should be available 24/7 and handle high traffic during peak booking seasons.
- Security: Protect customer data and prevent unauthorized access.
- User-Friendly Interface: Intuitive design for easy navigation.
- Efficient Booking Process: Streamlined tour booking and confirmation.

#### **1.4.7 Conclusion**

Summarize the scope of study, emphasizing the importance of the travel and tour management system and its impact on the industry.

## **1.5 Methodology**

Here's a methodology for a travel and tour management system with three subtopics.

### **1.5.1 Planning and Reservation System:**

- Requirement Analysis: Identify the needs of travellers, including their preferences, budget constraints, and desired destinations.
- Destination Research: Gather information about popular tourist destinations, including attractions, accommodations, and transportation options.
- Booking Integration: Integrate APIs or develop a system to facilitate bookings for flights, hotels, transportation, and activities.
- User Interface Design: Design an intuitive interface for users to search, compare, and book travel services seamlessly.
- Payment Gateway Integration: Implement secure payment gateways to enable users to make reservations and payments online.

### **1.5.2 Tour Management and Operations:**

- Itinerary Planning: Create customizable itineraries based on user preferences, including sightseeing, dining, and leisure activities.
- Resource Management: Manage resources such as tour guides, vehicles, and accommodations to ensure smooth operations.
- Real-time Updates: Provide real-time updates to travellers regarding itinerary changes, weather alerts, and local events.
- Customer Support: Offer 24/7 customer support to address inquiries, resolve issues, and help during travel.
- Feedback and Review System: Implement a feedback mechanism to gather traveller feedback and improve service quality.

### **1.5.3 Travel Experience Enhancement:**

- Personalization: Utilize data analytics to personalize travel recommendations and promotions based on user preferences and past behaviour.

- Mobile Application Development: Develop a mobile app to enhance the travel experience, including features such as offline maps, language translation, and trip journals.
- Social Integration: Enable social sharing features to allow travellers to share their experiences, photos, and recommendations with friends and family.
- Crisis Management: Establish protocols for handling emergencies, including medical assistance, natural disasters, and security threats.
- Sustainability Initiatives: Promote responsible travel practices and eco-friendly tourism options to minimize environmental impact.

This methodology provides a structured approach to developing a comprehensive travel and tour management system, covering various aspects from planning and reservation to tour management and enhancing the overall travel experience.

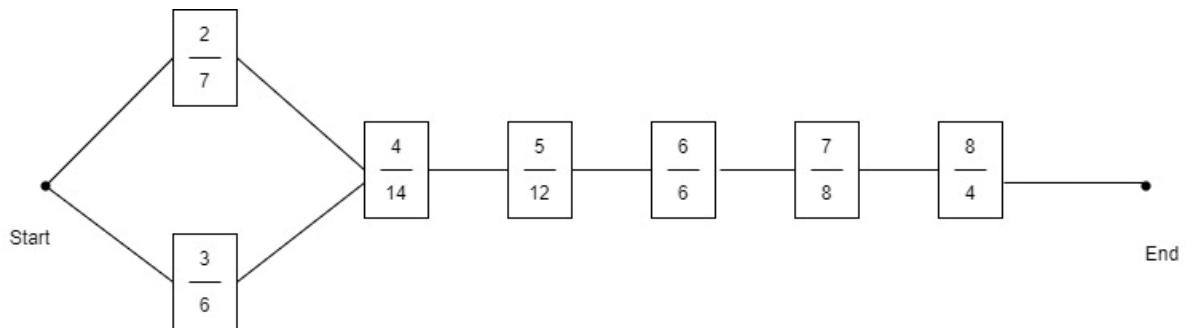
## **1.6 Gantt Chart**

### **1.6.1 Project Schedule**

<b>Id</b>	<b>Task</b>	<b>Predecessors</b>	<b>Expected Time (Days)</b>
1	Start	-	0 Days
2	Feasibility Study	1	7 Days
3	Creating Project Proposal	1	6 Days
4	Designing	2,3	14 Days
5	Development	4	12 Days
6	Implementation	5	6 Days
7	Testing	6	8 Days
8	Finalizing	7	4 Days
9	Finish	8	0 Days

*Table 1: Project Schedule*

### **1.6.2 Network Diagram**



*Figure 1: Network Diagram*

### 1.6.3 Grantt Chart

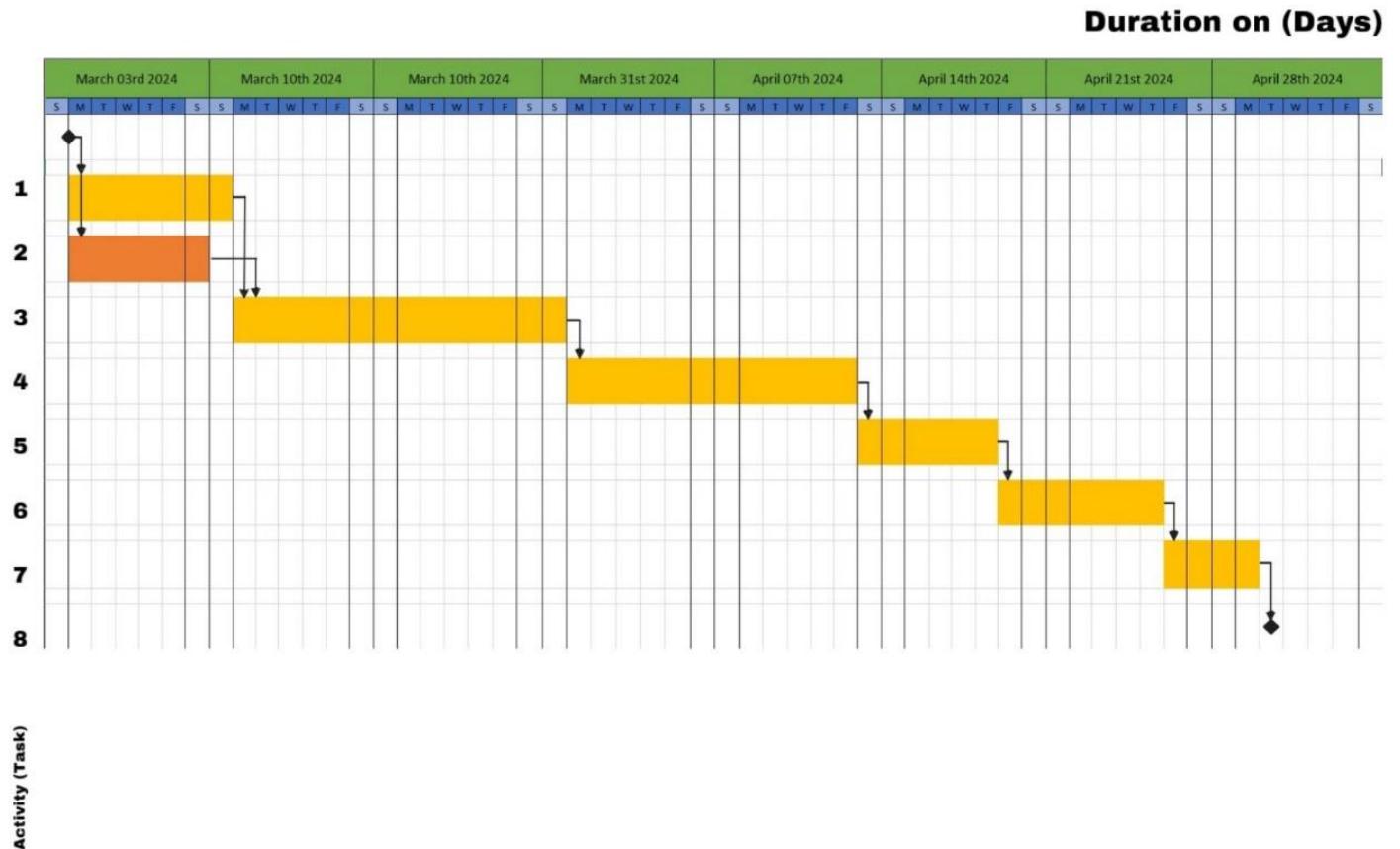


Figure 2: Gantt Chart

### 1.6.4 Critical Path

- Path 1 -> Start – 2 – 4 – 5 – 6 – 7 – 8 – End.
- Path 1 -> Start – 3 – 4 – 5 – 6 – 7 – 8 – End.

## **CHAPTER-02 ANALYSIS**

### **2.1 Existing System**

Based on the provided context, the system for Horizon Travels and Tours agency should have the following features:

- Customer Details Management: This should include adding, updating, deleting, and printing customer details.
- Packages Management: This should include adding, booking, viewing, and printing packages.
- Hotels Management: This should include adding, managing, viewing, and booking hotels.
- Payment Management: This should include printing bills.
- Travelling Details Management: This should include adding, managing, viewing, and printing travelling details.

The system should also have a dashboard for admin, news updates, and a search feature for selecting the country to travel to. The system appears to be a desktop application, given the commands for updating the time and date. Therefore, the system requirements should include:

- A desktop or laptop computer.
- A compatible operating system (e.g., Windows, MacOS, Linux).
- Enough memory and storage to run the application smoothly.
- A reliable internet connection for online features such as booking packages and hotels.
- A printer for printing bills, customer details, packages, and travelling details.

Additionally, the system should have a user-friendly interface, ensuring that the users can easily navigate and use the system.

## **2.2 Major Activities and Functions**

- Login – Only Administrators can access. They all have username & password, when open application enters USERNAME & PASSWORD and click below LOGIN Button.
  
- Customer Details: A major part of the management system, this is useful for management to keep and maintain their data base easily, this part consists of main four parts as "Add personal details ", "Update personal", "delete personal details", "print personal details".

  1. Add Personal Details: - In this, we can inspect all customer details in the data base which we saved in top of the wall. and corner of the right side in bottom we can see two buttons as red and green colour as "Add", "Clear".
  2. Update Personal Details: - In this sector we can see similarly as the above page as customer details in the top of the wall, and top of the right conner we can see search bar in this ability to search customer name and can get their own information by using this search bar .in the bottom of the wall can see two buttons as Update and clear. this application form we can use to update personal details.
  3. Delete Personal Details: - In this part also can see customer details as commonly, the right corner of the top in the wall facilitate to search and get the customer details. The bottom of the wall having the two buttons as DELETE and CLEAR the Delete button ability to delete customer details.
  4. Print Personal Details: - In this part also can see details of the customer details, the top of right corner having the selection bar as SELECT COUNTRY this facilitate to select the county ang get the customers which came from relevant country. And bottom of the left corner having the buttons as ALL, MALE, FEMALE. when select the ALL can get all the customer in data base and select the MALE or FEMALE separately can get the details of male and female. And this having another button as PRINT this having ability to print the customer details.

- Package Details: - This is also major part of the tourism management system. it provides package availability of company.it consist of 4 parts as add packages, book package, view package & print package.
1. Add package Details: - In this part is belong to the package details the top of the wall it consists of the package details which belong to the data base the right corner of the wall having search bar this able to search the package and hotel details.
  2. Update Package Details: - In this sector we can see similarly as the above page as package details in the top of the wall, and top of the right conner we can see search bar in this ability to search package name and can get their own information by using this search bar .in the bottom of the wall can see two buttons as Update and clear. this application form we can use to update package details.
  3. Delete Package Details: - In this part also can see package details as commonly, the right corner of the top in the wall facilitate to search and get the customer details. The bottom of the wall having the two buttons as DELETE and CLEAR the Delete button ability to delete package details.
  4. View Package Details: - This able to view package details, this also display hotel details and right corner of the wall having search bar it facilitates to search and get ability to package details.
  5. Print Package Details: -In this able to print package details, this also display package details and right corner of the wall having search bar it facilitates to search and get ability to package details in the middle of the bottom having a button as PRINT it able to print details of packages.
- 
- Hotels Details: - This is also major part of the tourism management system. it provides hotels availability of company.it consist of 6 parts as add hotel details, manage hotels details (update, delete), book hotel details, view hotel details, Payment details & print bill details.
1. Add Hotel Details: - In this part is belong to the hotel details the top of the wall it consists of the hotel details which belong to the data base the right corner of the wall having search bar this able to search the hotel details.

2. Manage Hotel Details: - this support to manage hotel details regularly, this also display package details and right corner of the wall having search bar it facilitates to search and get ability to package details to bottom having application form to input details to add their data base and middle of bottom having 3 buttons as UPDATE, DELETE, CLEAR. update button able to update the entered details to the form and delete button able to delete the details and clear button is provided to clear the above form.
  3. View Hotel Details: - This able to view hotel details, this also display package details and right corner of the wall having search bar it facilitates to search and get ability to package details.
  4. Book Hotel Details: - This able to Book hotels. You can select or search hotel using hotel name or Id, then click BOOK button to book a hotel.
  5. Payment:- In this able to receive package details this also display hotel details and right corner of the wall having search bar it facilitate to search and get ability to hotel details left corner of the bottom having space to type ID and right corner of the bottom having choosing buttons to needed of print bill as YES / NO and follow of that having the buttons as PRINT it able to print bill.
  6. Print Bill: - In this able to receive package details this also display package details and right corner of the wall having search bar it facilitate to search and get ability to package details le left corner of the bottom having space to type ID and right corner of the bottom having choosing buttons to needed of payment as YES / NO and follow of that having the buttons as PAY it able to make payment.
- Travelling Details: - This is also major part of the tourism management system. it provides travelling details about flights availability of company.it consist of 4 parts as add travelling details, manage travelling details (update, delete), view travelling details, Payment details & print travelling details.
1. Add Travelling Details: - Top of the wall we can see travellers' details. (Traveller id, customer id, hotel id, package id, flight id, visa number. Top of the right corner we can see search bar.it gives us the ability to search & find relevant information. Bottum of the wall we can see three buttons as ADD, CLEAR. ADD button ability to add

information, CLEAR button ability to delete travelling details, middle of the bottom we can see fill in some details as customer id, hotel id, package id, flight id, visa number.

2. Manage Traveling Details :- Top of the wall we can see travellers' details.(traveller id, customer id, hotel id, package id, flight id, visa number) Top of the right corner we can see search bar.it gives us the ability to search & find relevant information .Bottum of the wall we can see three buttons as UPDATE,DELETE & CLEAR, Click the UPDATE button we can update traveling details , DELETE button ability to delete traveling details & CLEAR button can clear the details , middle of the bottom we can see fill in some details as customer id, hotel id, package id, flight id, visa number.
  3. View Traveling Details: - Top of the wall we can see travellers' detail. (traveller id, customer id, hotel id, package id, flight id, visa number) Top of the right corner we can see search bar.it gives us the ability to search & find relevant information. As well as you can book a flight.
  4. Print traveling information: - Top of the wall we can see travellers' detail. (traveller id, customer id, hotel id, package id, flight id, visa number) Top of the right corner we can see search bar.it gives us the ability to search & find relevant information & this having another button as PRINT this button ability to print the traveling information.
- 
- Logout: - If You want Logout, you can click LOGOUT button in Navigation.

### **2.3 Drawback of the existing system**

1. Dependency on External Payment Gateways: The system redirects customers to external payment gateways for financial transactions. This could lead to potential security risks and dependency on third-party services.
2. Data Management Challenges: Administrators are responsible for maintaining customer profiles and booking records. This could be a challenging task considering the volume of data and the need for its accuracy and timeliness.
3. System Availability and Traffic Management: Ensuring 24/7 availability of the system and handling high traffic during peak booking seasons could pose technical challenges.
4. Security Concerns: Protecting customer data and preventing unauthorized access is a significant challenge, especially with the increasing number of cyber threats.
5. User Interface Design: Creating an intuitive and user-friendly interface that caters to a diverse range of customers can be a complex task.
6. Efficient Booking Process: Streamlining the tour booking and confirmation process to ensure it is quick and efficient can be challenging, especially when dealing with many tour options and customer requests.

These challenges, if not addressed properly, could impact the overall efficiency and user experience of the Travel & Tour Management System. It's important to consider these factors during the development phase to ensure the successful implementation of the system.

## 2.4 UML Diagrams

### 2.4.1 Use Case Diagram

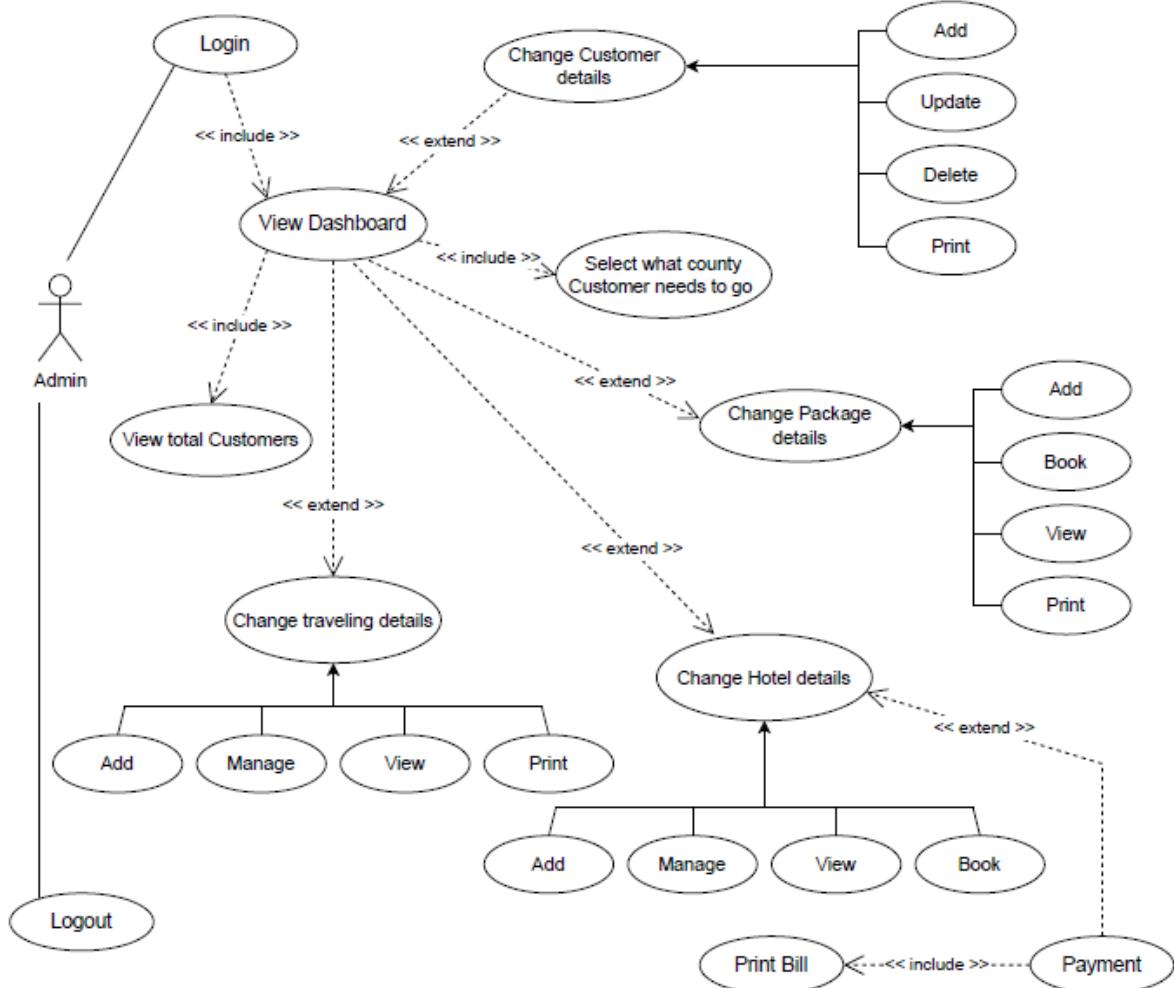


Figure 3: Use Case Diagram

## 2.4.2 Activity Diagram

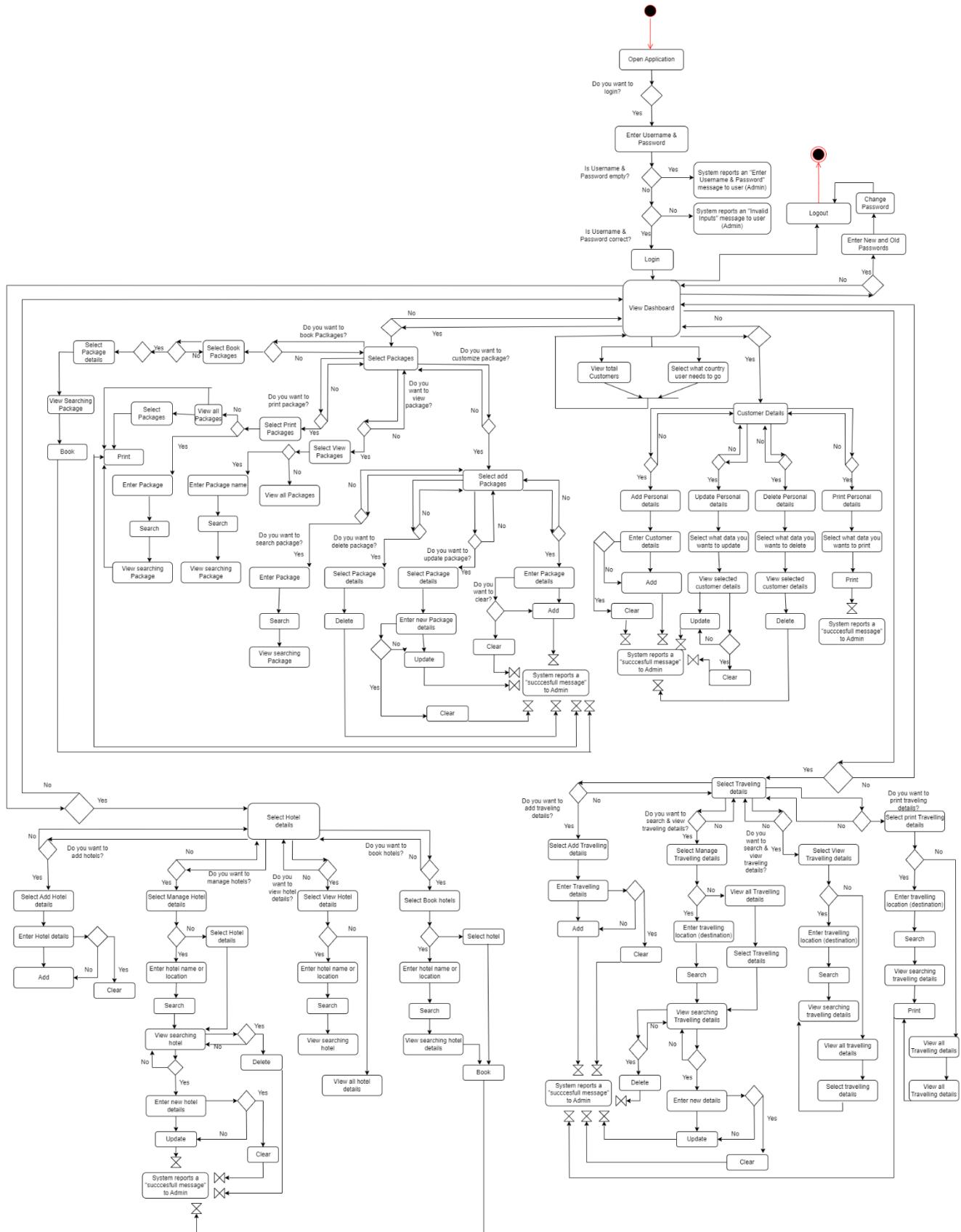


Figure 4: Activity Diagram

## 2.4.3 Class Diagram

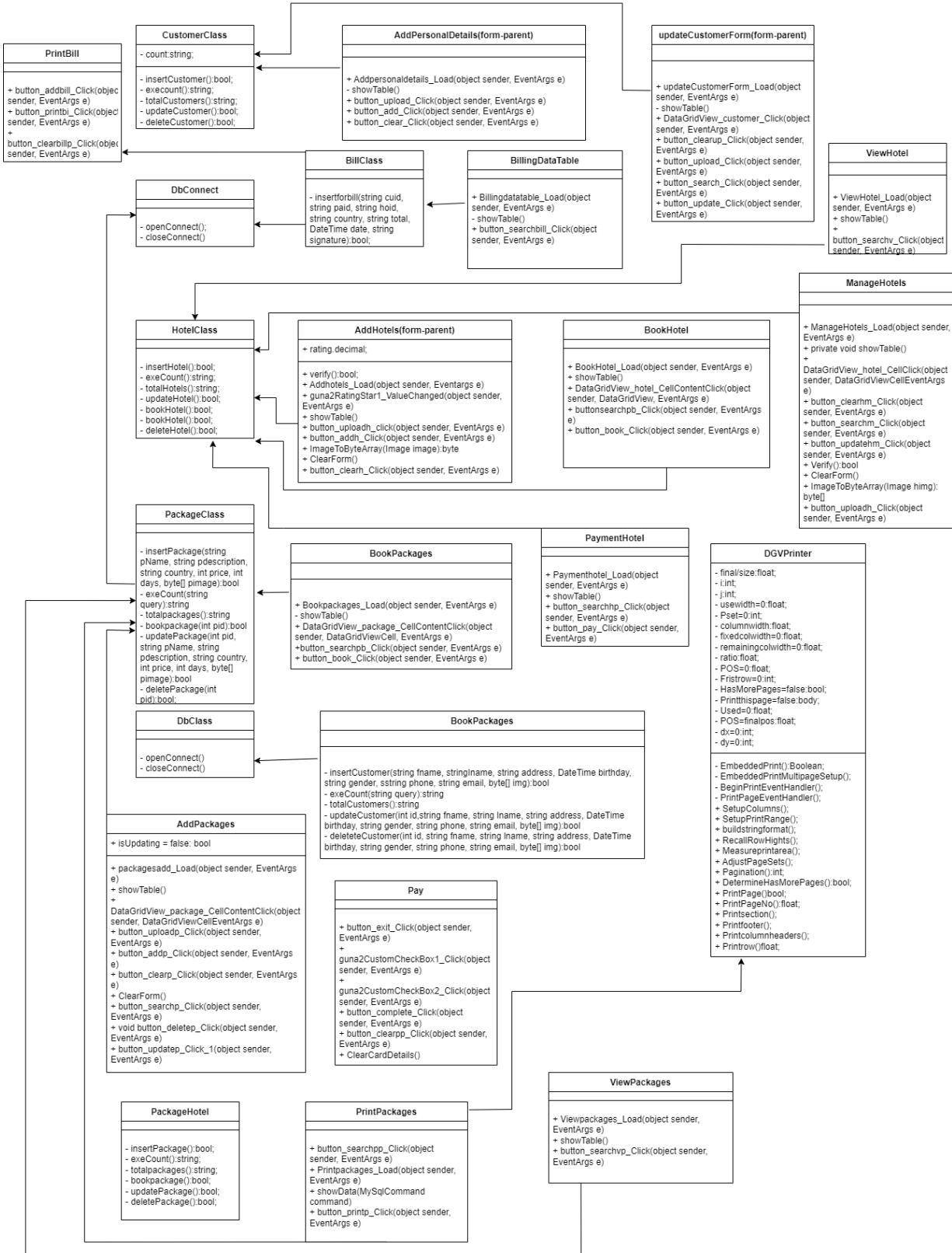


Figure 5: Class Diagram

## 2.4.4 Sequence Diagram

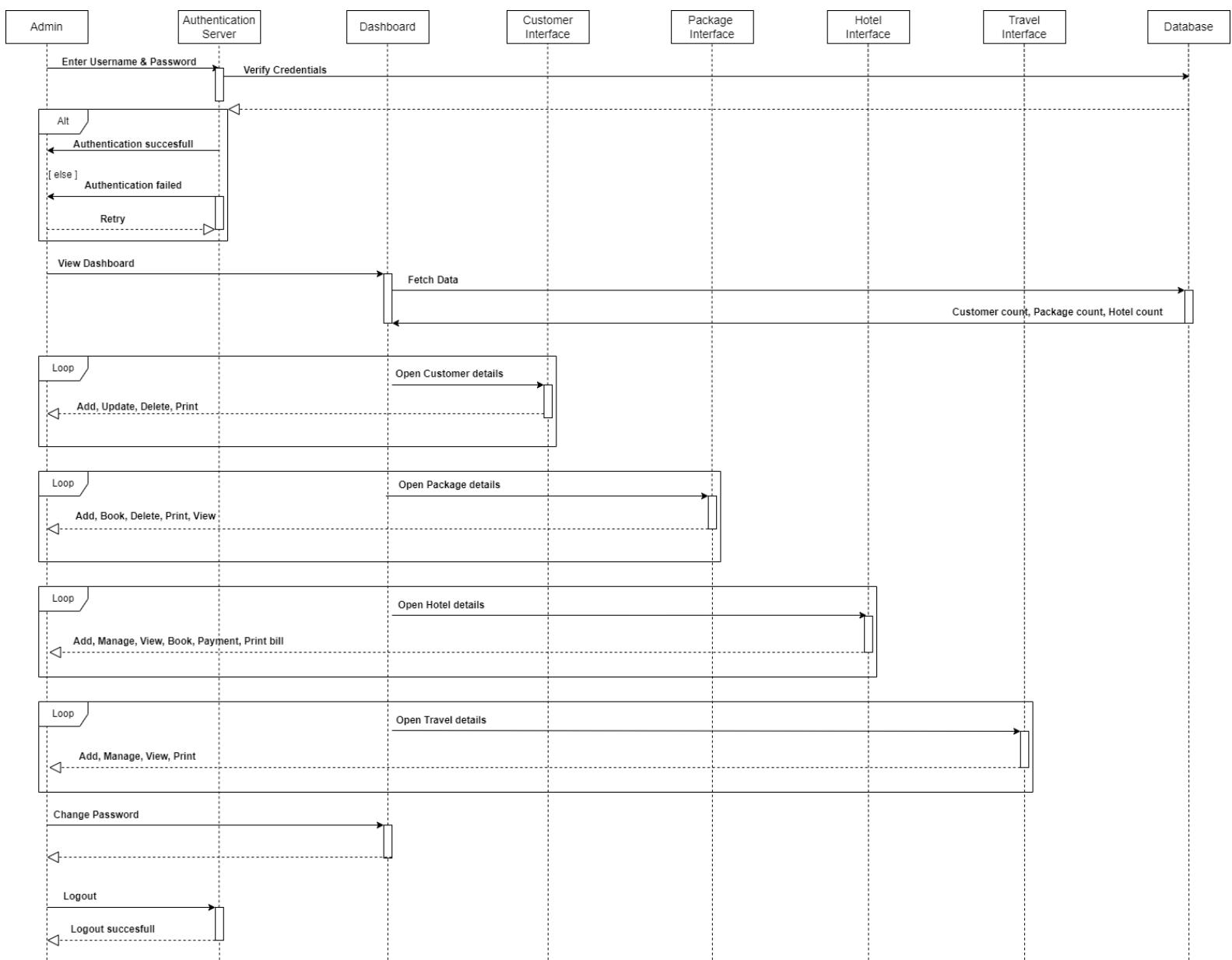


Figure 6: Sequence Diagram

#### 2.4.5 ER Diagram

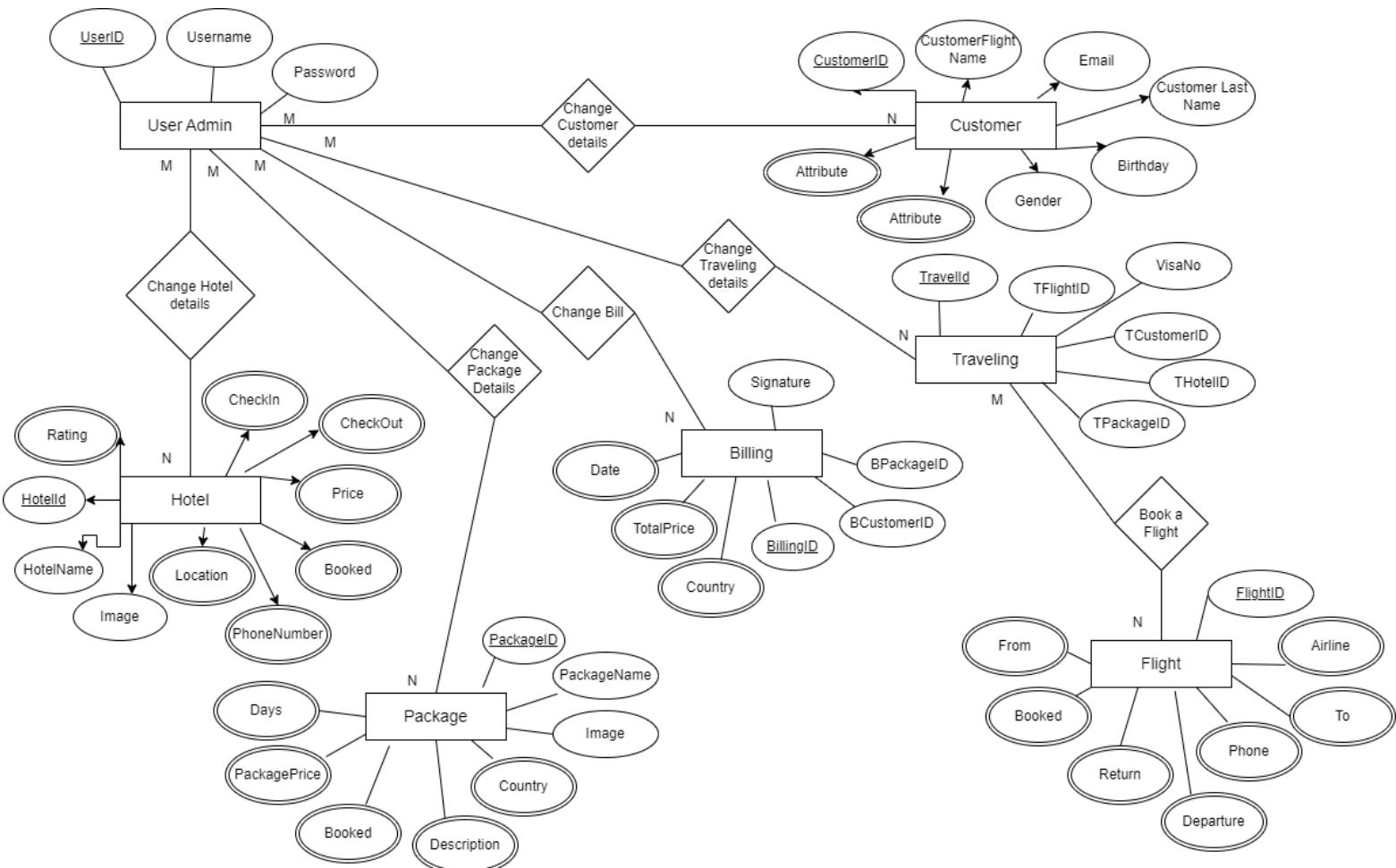


Figure 7: ER Diagram

#### 2.4.6 Flow Diagram

- Login,

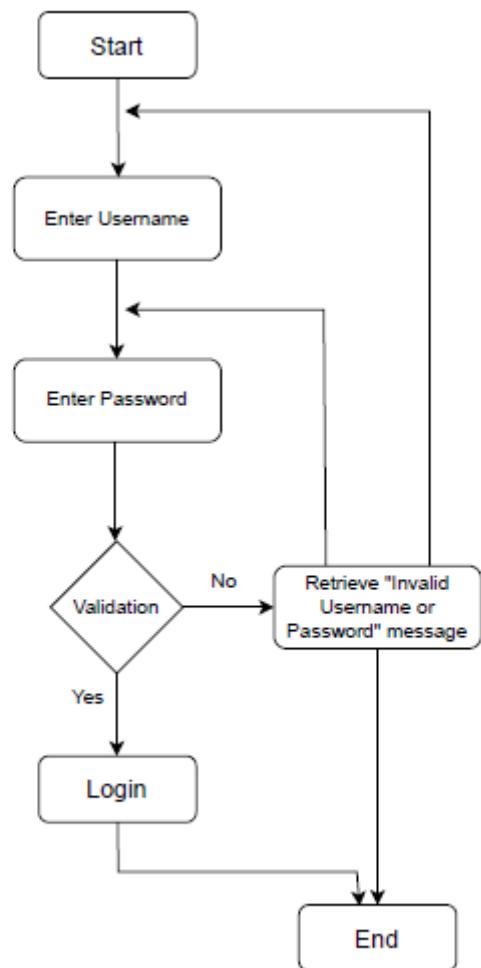


Figure 8: Login Flow Chart

- **View Dashboard,**

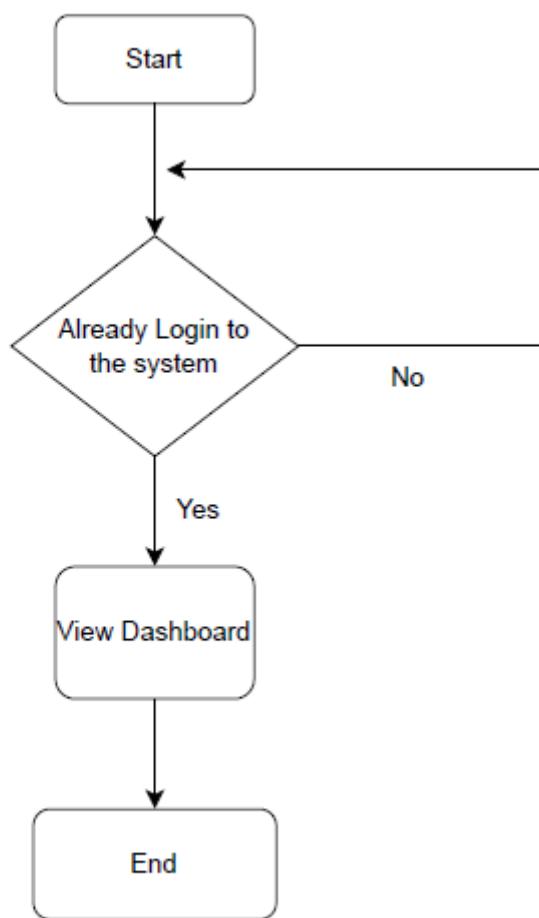


Figure 9: View Dashboard Flow Chart

- Add Customer Details,

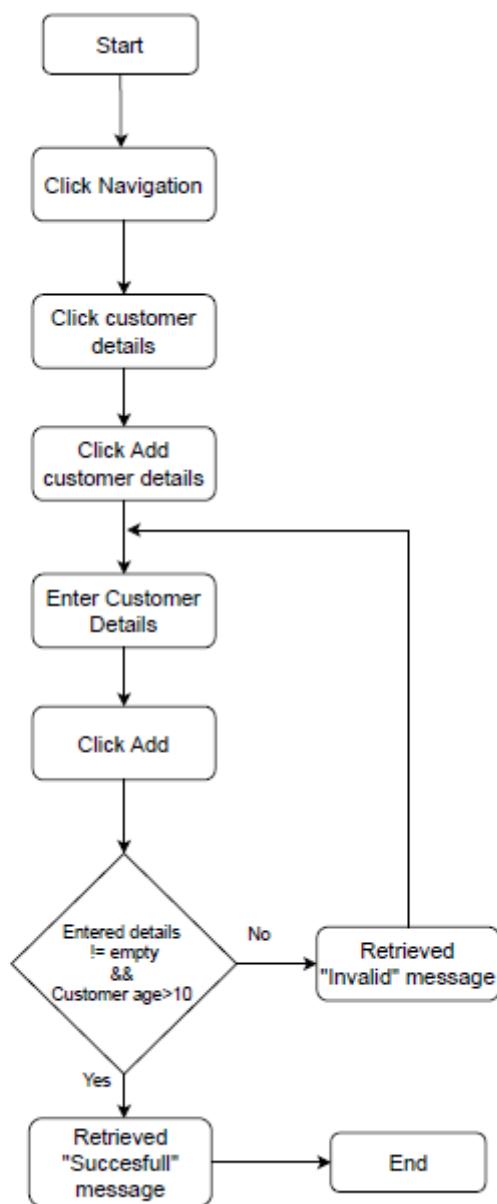


Figure 10: Add Customer Details Flow Chart

- **Update Customer Details,**

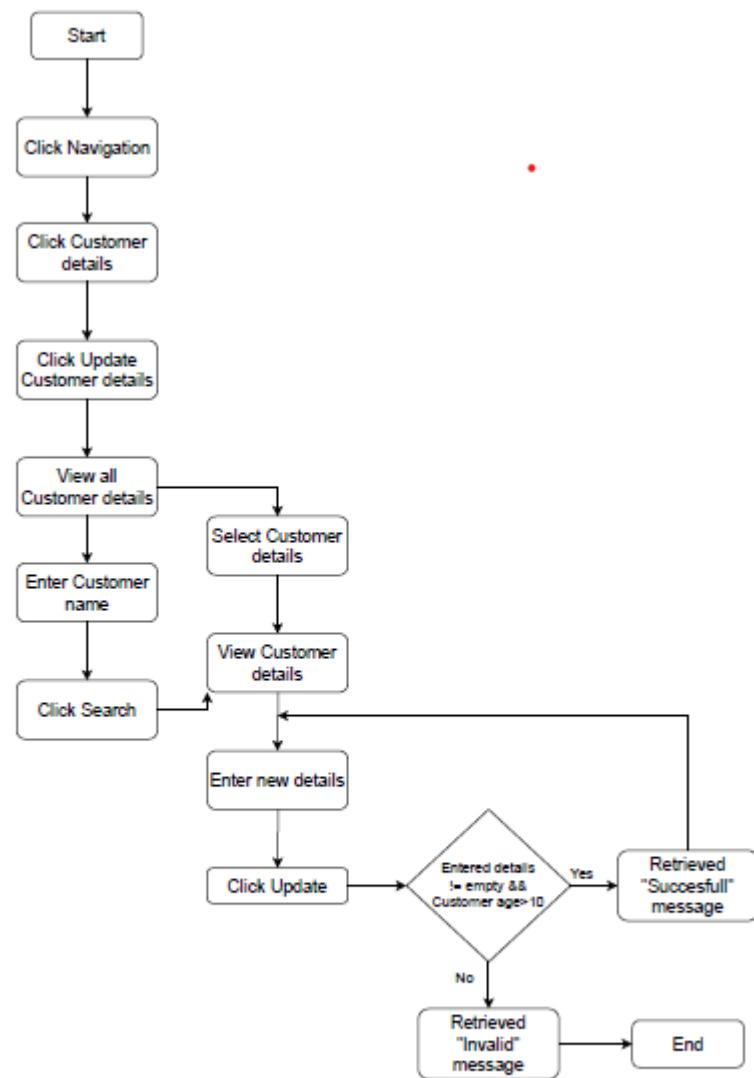


Figure 11: Update Customer Details Flow Chart

- **Delete Customer Details,**

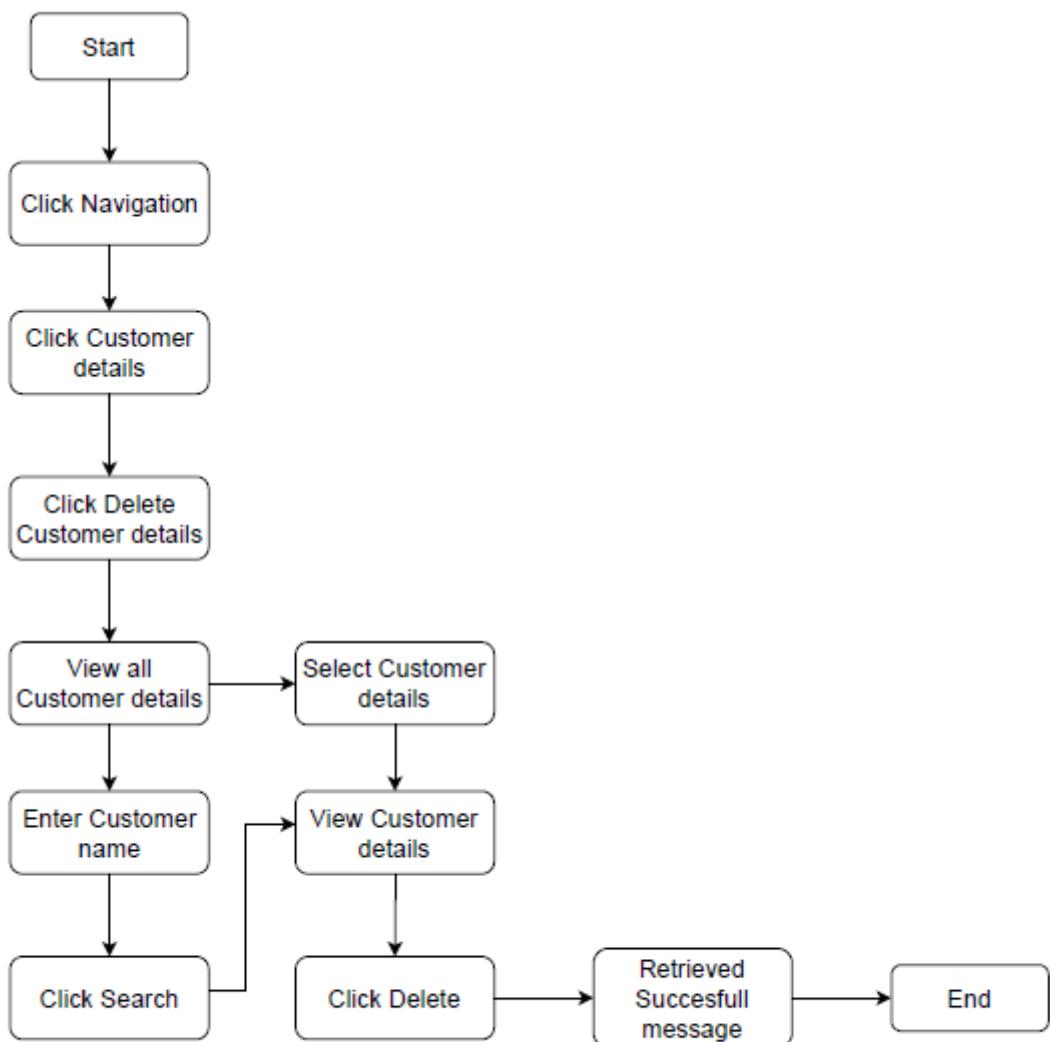


Figure 12: Delete Customer Details Flow Chart

- Print Customer Details,

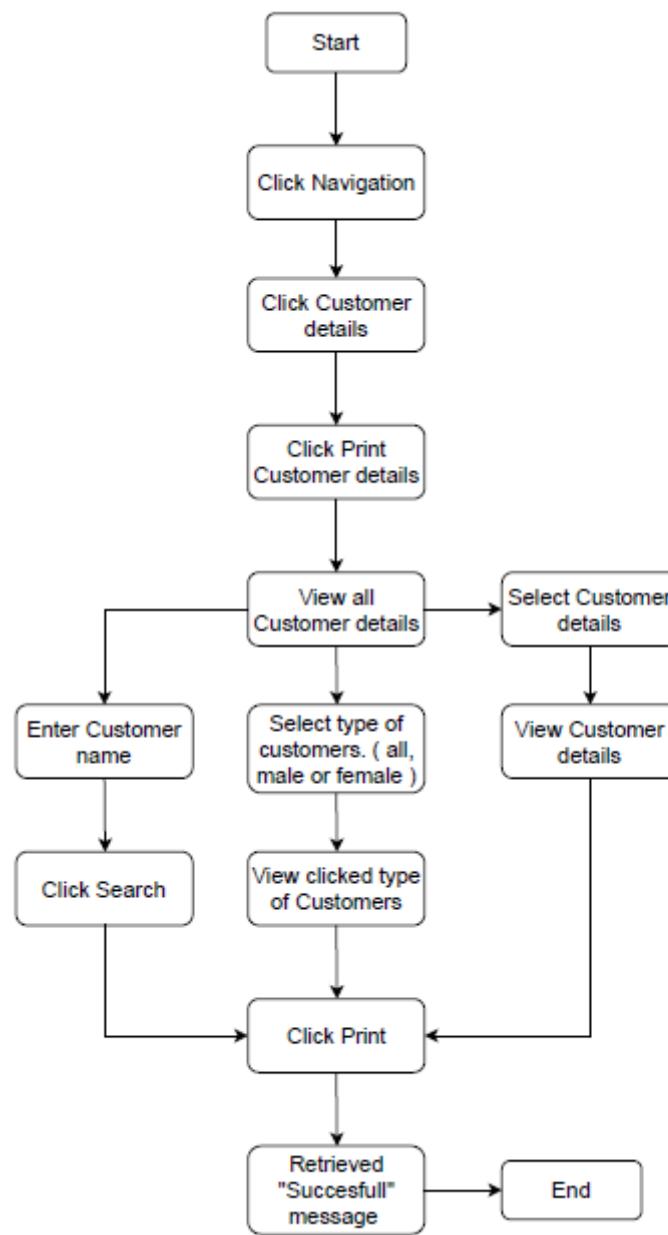


Figure 13: Print Customer Details Flow Chart

- Add Packages Details (Add/Delete/Update),

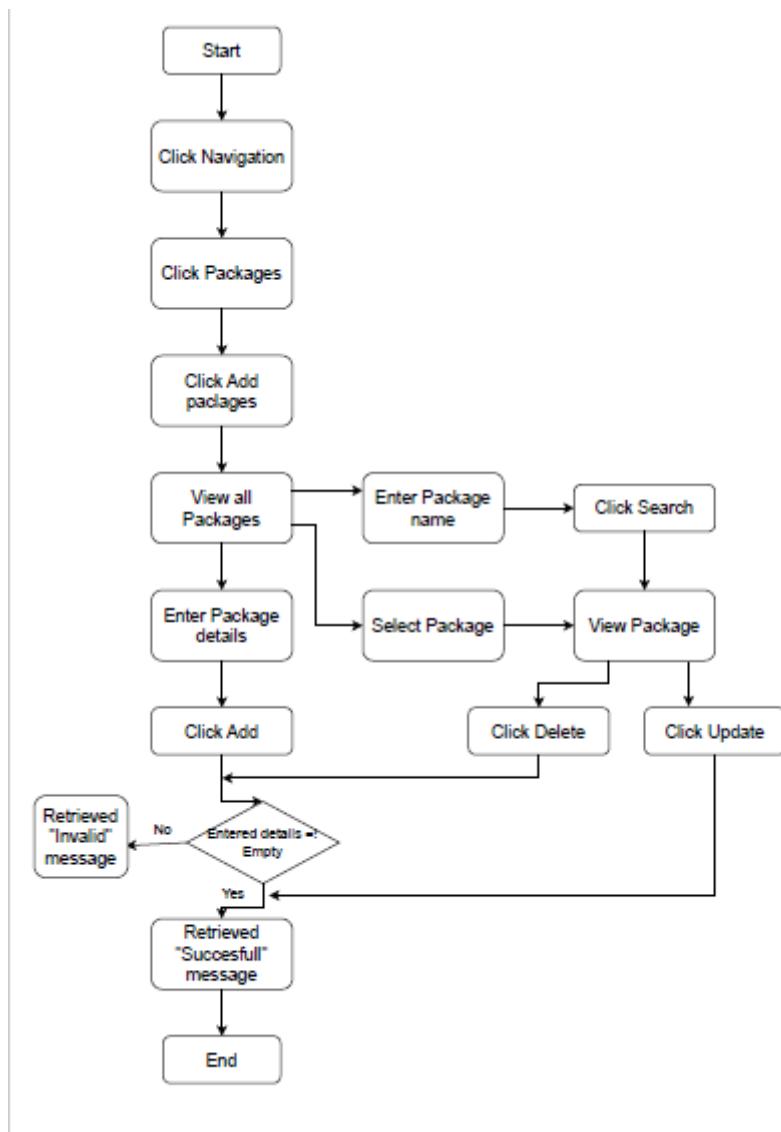


Figure 14: Add Package details Flow Chart ( Add, Update, Delete)

- Book Packages Details,

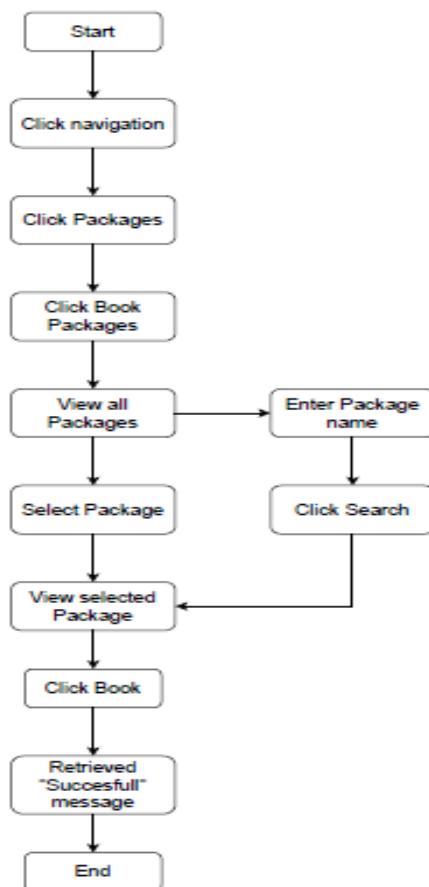


Figure 15: Book Package Details Flow Chart

- **View Package Details,**

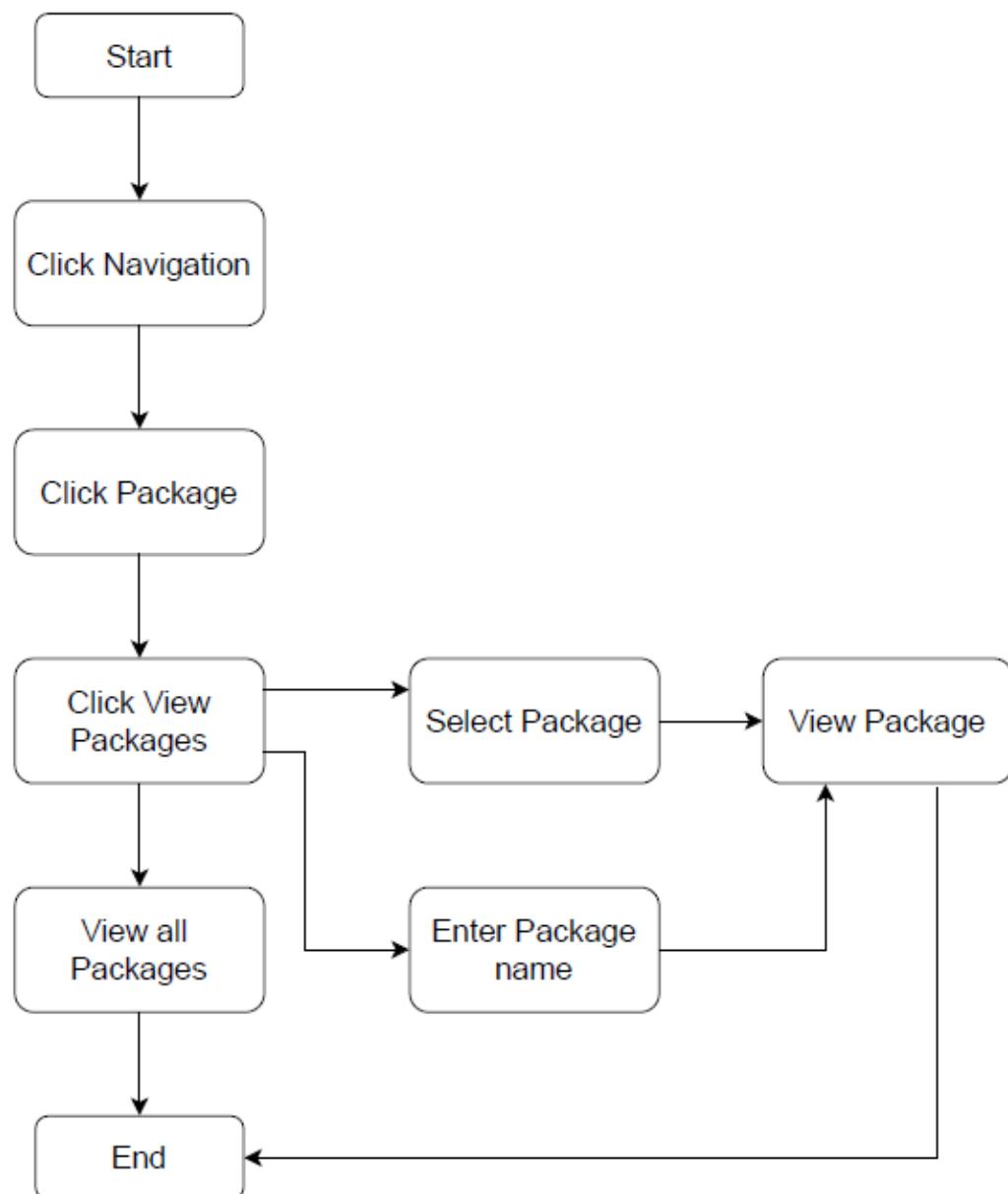
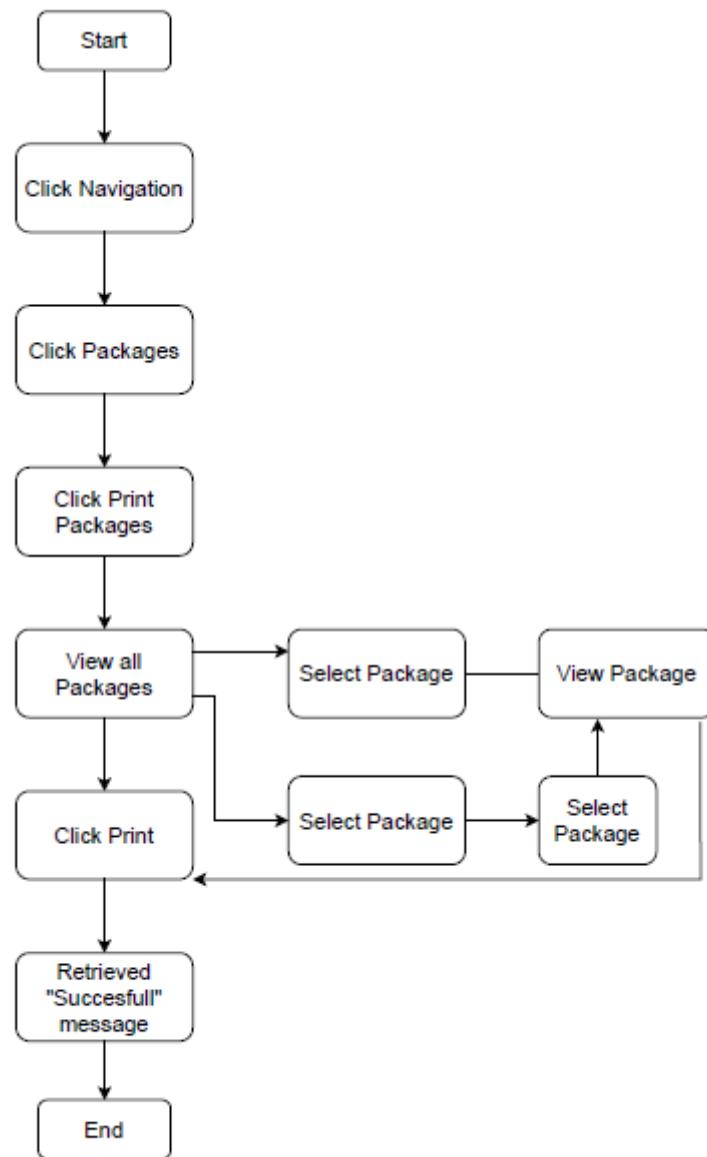


Figure 16: View Packages Details Flow Chart

- Print Package Details,



*Figure 17: Print Package Details Flow Chart*

- **Add Hotels Details,**

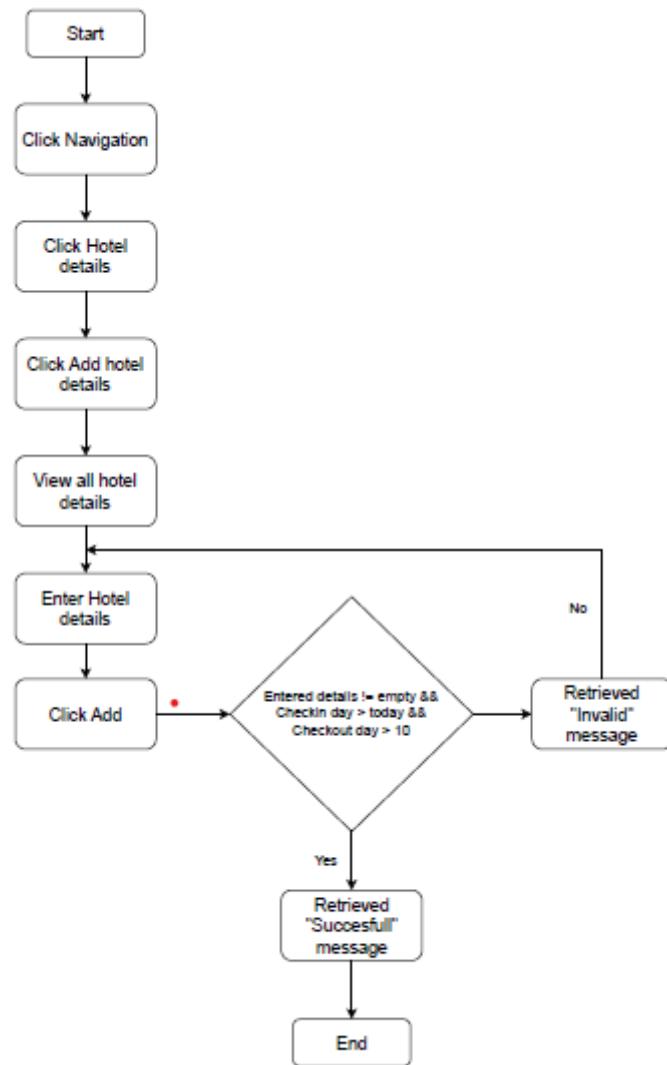


Figure 18: Add Hotel Details Flow Chart

- Manage Hotel Details (Update/Delete),

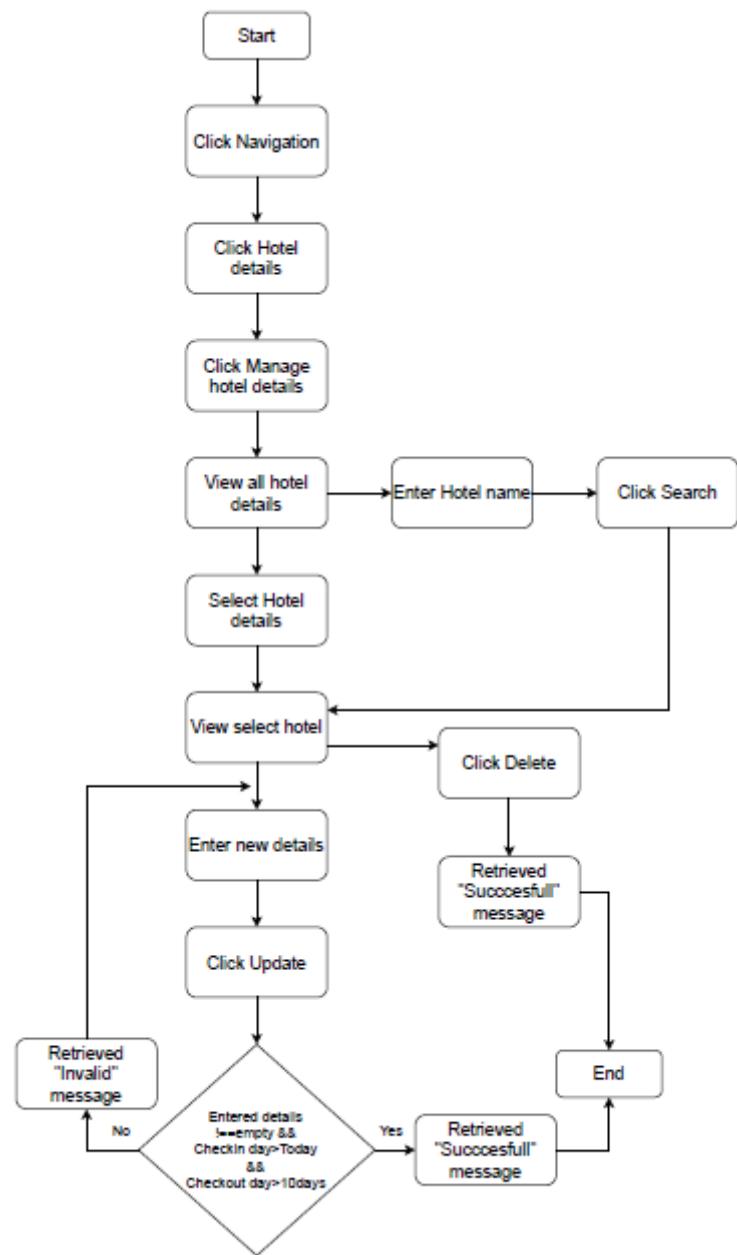


Figure 19: Manage Hotel Details Flow Chart

- **Book Hotels,**

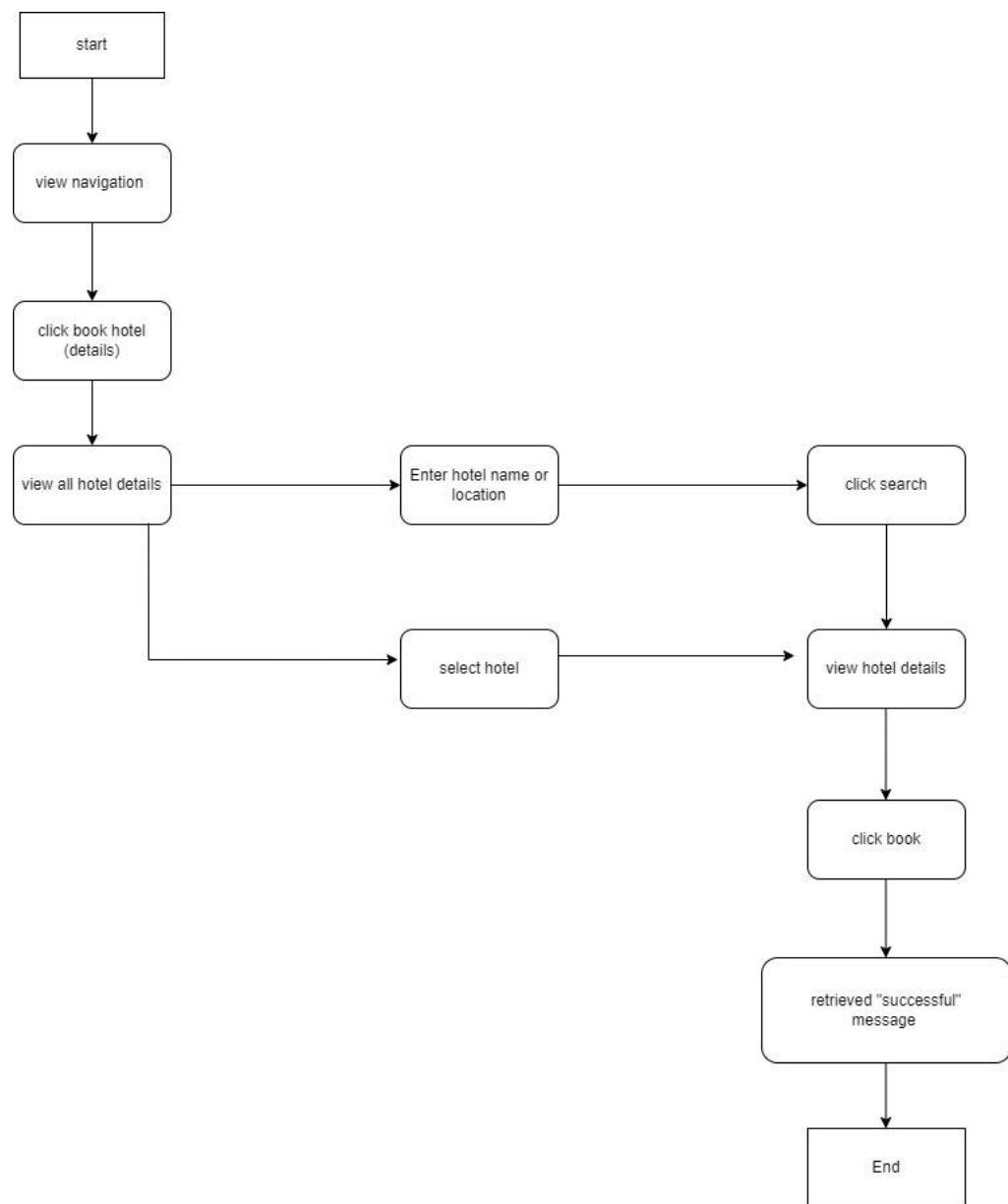


Figure 20: Book Hotel Flow Chart

- **Payment,**

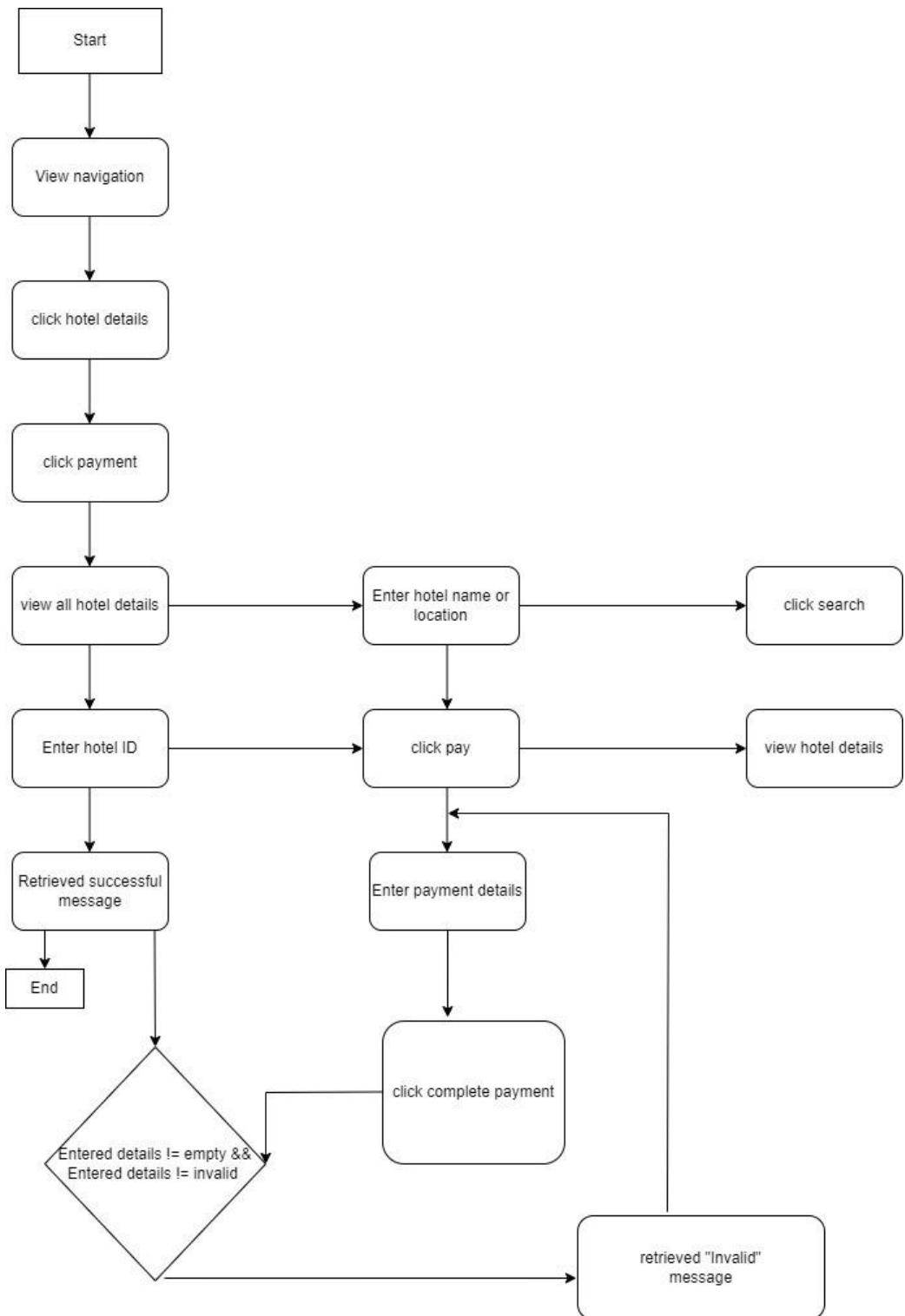


Figure 21: Payment Flow Chart

- Print Bill,

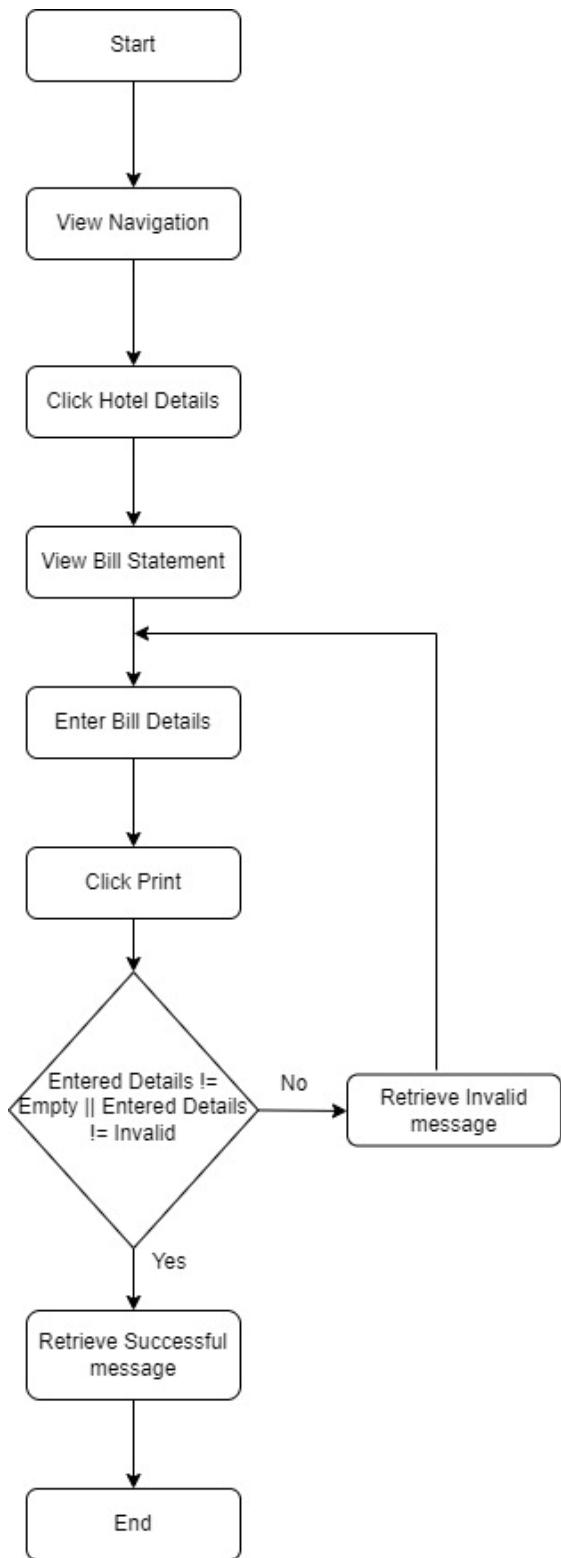


Figure 22: Print Bill Flow Chart

- Add Travelling Details,

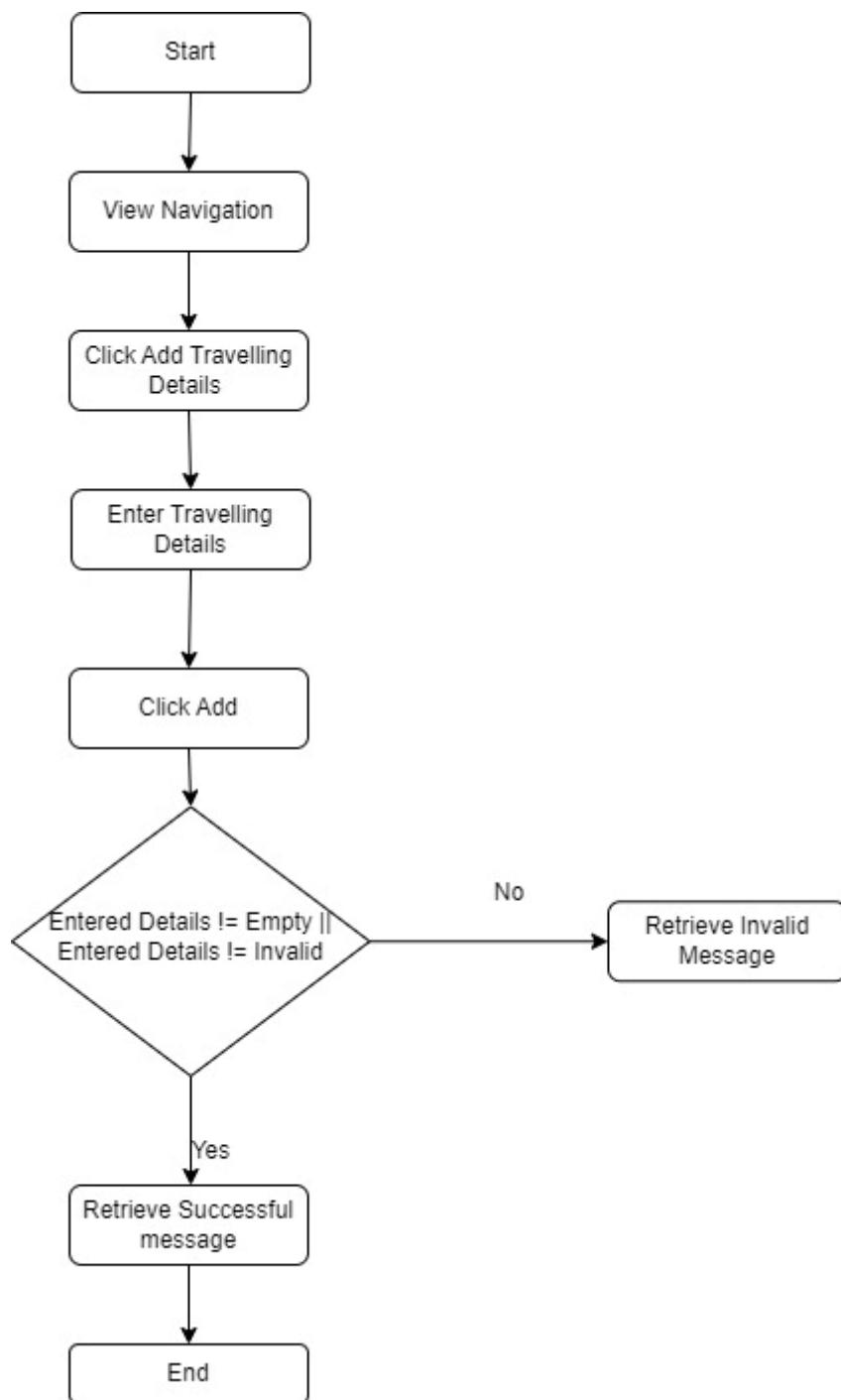


Figure 23: Add Travelling Details Flow Chart

- Manage Travelling Details (Update, Delete),

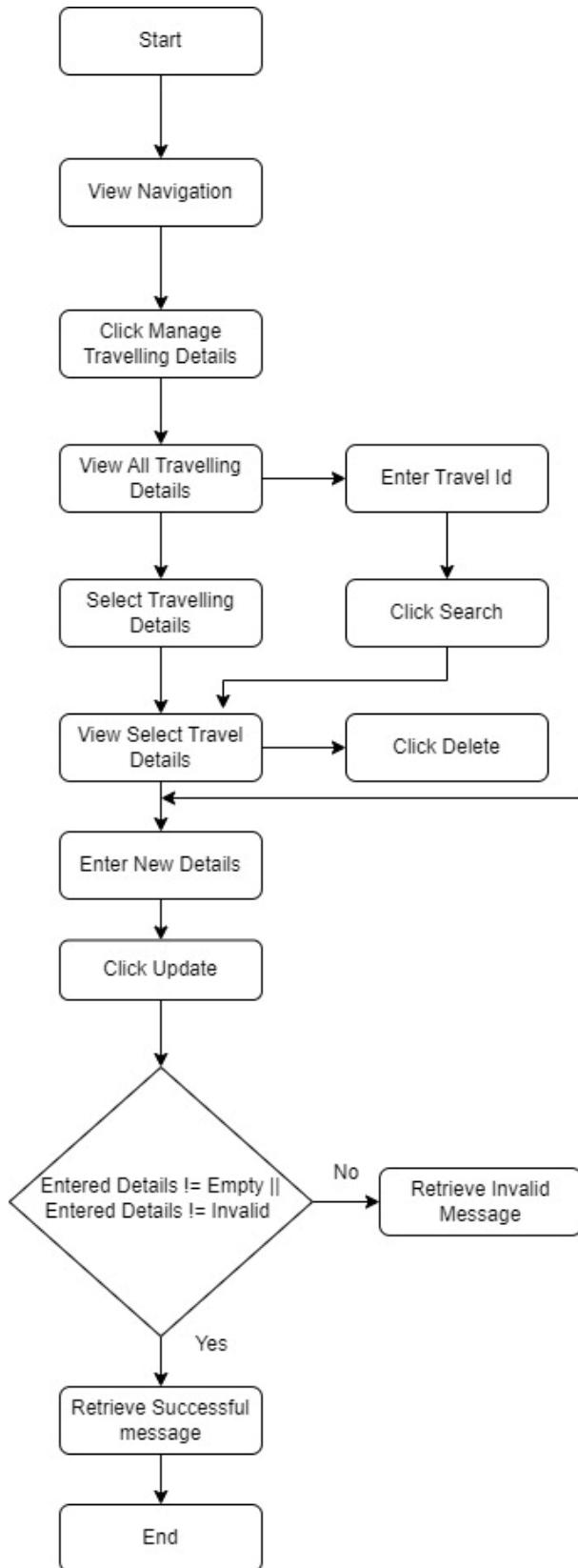
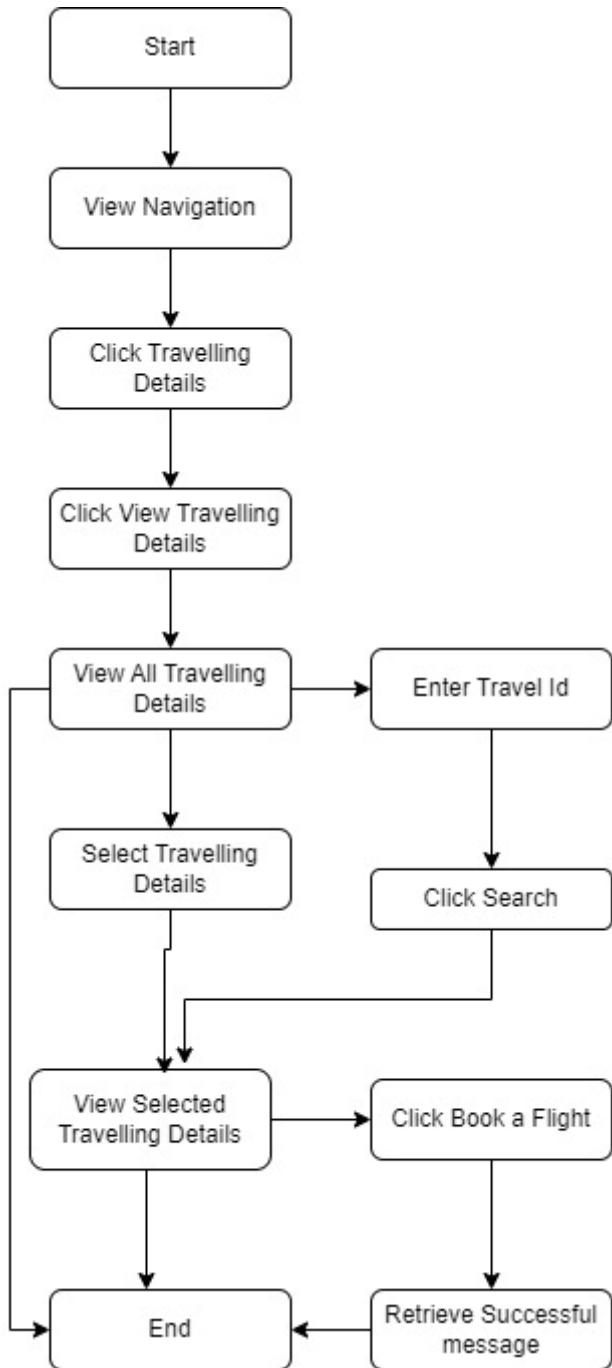


Figure 24: Manage Travelling Details(Update, Delete) Flow Chart

- **View Travelling Details,**



*Figure 25: View Travelling Details & Book a Flight Flow Chart*

- Print Travelling Details,

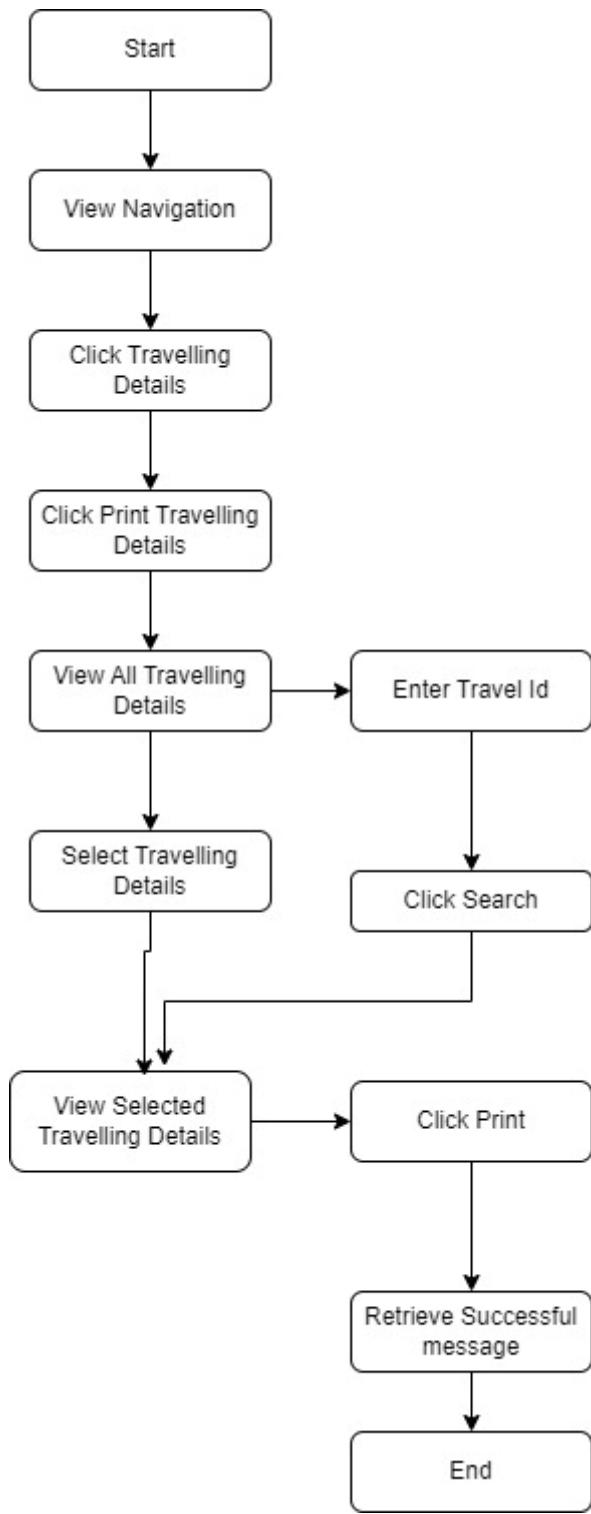
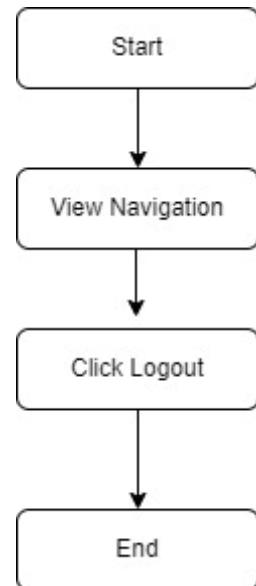


Figure 26: Print Travelling Details Flow Chart

- **Logout,**



*Figure 27: Logout Flow Chart*

## **CHAPTER-03 DESIGN**

### **3.1 Proposed System**

here are some potential solutions to the identified problems:

1. Dependency on External Payment Gateways: Implement a secure, in-house payment processing system. This could reduce dependency on third-party services and potentially enhance security.
2. Data Management Challenges: Utilize advanced data management tools and techniques. Implementing machine learning algorithms for data cleaning and processing could improve the accuracy and timeliness of data.
3. System Availability and Traffic Management: Use cloud-based solutions to ensure 24/7 system availability. Load balancing techniques could be used to manage high traffic during peak booking seasons.
4. Security Concerns: Implement robust cybersecurity measures such as encryption, two-factor authentication, and regular security audits to protect customer data and prevent unauthorized access.
5. User Interface Design: Conduct user experience (UX) research to understand customer needs and preferences. This could guide the design of an intuitive and user-friendly interface.
6. Efficient Booking Process: Implement an efficient booking algorithm that can handle multiple tour options and customer requests. Also, providing clear and concise booking instructions could enhance the booking experience for customers.

These solutions, if implemented effectively, could address the identified challenges, and enhance the overall efficiency and user experience of the Travel & Tour Management System. It's important to continuously monitor and update the system based on user feedback and technological advancements.

### **3.1.1 System requirement**

Based on the provided context, the system for Horizon Travels and Tours agency should have the following features:

- Customer Details Management: This should include adding, updating, deleting, and printing customer details.
- Packages Management: This should include adding, booking, viewing, and printing packages.
- Hotels Management: This should include adding, managing, viewing, and booking hotels.
- Payment Management: This should include printing bills.
- Travelling Details Management: This should include adding, managing, viewing, and printing travelling details.

The system should also have a dashboard for admin, news updates, and a search feature for selecting the country to travel to. The system appears to be a desktop application, given the commands for updating the time and date. Therefore, the system requirements should include:

- A desktop or laptop computer.
- A compatible operating system (e.g., Windows, MacOS, Linux).
- Enough memory and storage to run the application smoothly.
- A reliable internet connection for online features such as booking packages and hotels.
- A printer for printing bills, customer details, packages, and travelling details.

Additionally, the system should have a user-friendly interface, ensuring that the users can easily navigate and use the system.

### 3.2 Databases

- Full Database,

Table	Action	Rows	Type	Collation	Size	Overhead
customer		5	InnoDB	utf8mb4_general_ci	352.0 KiB	-
flight		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
forbill		3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
hotel		1	InnoDB	utf8mb4_general_ci	144.0 KiB	-
package		2	InnoDB	utf8mb4_general_ci	1.1 MiB	-
travel		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
user		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
7 tables	Sum	14	InnoDB	utf8mb4_general_ci	1.6 MiB	0 B

Table 2: Full Database

We used XAMPP sever with phpMyAdmin to create this "customerdb" database. And we created 7 Tables to develop our database.

- User Login Details,

SELECT \* FROM `user`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

UserId	UserName	Password
1	horizon	horizon

Edit Copy Delete       Check all With selected: Edit Copy Delete Export

Table 3: User Login Details Table

UserId - primary key / datatype = int / char - 5

Username - datatype = varchar / char - 30

Password - varchar / char – 30

- Customer Details,

CustomerId	CustomerFirstName	CustomerLastName	Address	Birthday	Gender	Phone	Email	Photo
4	Amanda	Wijesinghe	71/1,Neelamahara,Buthpitiya	2001-11-02	Female	0753664396	mandawijesinghe2001@gmail.com	[BLOB - 82.5 KiB]
6	Dulaj	Dulsith	Maharagama	2003-04-28	Male	0722026105	ddhewage@gmail.com	[BLOB - 58.8 KiB]
7	Dinoth	Kavinda	Galle	2003-08-15	Male	0767295079	dinothKavinda@gmail.com	[BLOB - 65.1 KiB]
8	Akash	Mihisara	Homagama	2003-09-27	Male	947777567243	akashmihisara@gmail.com	[BLOB - 14.5 KiB]
19	Sithara	Jayawardene	Wijerama	1975-06-17	Male	0722716057	sitharadinoth@gmail.com	[BLOB - 45.7 KiB]

Table 4: Customer Details Table

CustomerId - primary key / int / char - 5

CustomerFirstName - varchar / char - 30

CustomerLastName - varchar / char - 30

Address - varchar / char - 100

Birthday - date

Gender - Radio box (male or female)

Phone - varchar / char - 30

Email - varchar / char - 30

Photo - data type = blob

- Package Details,

PackageId	PackageName	Description	Country	Package_Price	Days	Image	Booked
2	Travel with Nepa	Comfortable accommodation & accommodations during ...	Nepal	389900	6	[BLOB - 70.5 KiB]	1
7	Renaissance Honolulu Hote	STAY 4-NIGHTS OR MORE, SAVE UP TO 25% OFF!	Malaysia	80000	4	[BLOB - 903.2 KiB]	1

Table 5: Package Details Table

PackageID - primary key / int / char - 5

PackageName - varchar / char - 30

Description - varchar / char - 100

Country - varchar / char - 30

Package-Price - varchar / char - 30

Days - int

image - blob

Booked – int

- Hotel Details,

HotelId	HotelName	Location	PhoneNumber	Price	CheckIn	CheckOut	Rating	Image	Booked
1	The Chow Kit	Kuala Lumpur	78000	78000	2024-04-28	2024-04-29	5	[BLOB - 42.4 KiB]	1

Table 6: Hotel Details Table

HotelId - primary key / int / char - 5

Location - varchar / char - 30

PhoneNumber - varchar / char - 30

Price - varchar / char - 10

Checkin - date

Checkout - date

Rating - data type = decimal

Image - blob

Booked – int

- Bill Details,

Billing_ID	BCustomer_ID	BPackage_ID	BHotel_ID	Country	Total_Price	Date	Signature
5	1	1	1	f	22	2024-05-03	d
6	1	2	3	fff	257	2024-05-03	dddfd
8	7	2	1	Nepal	170000	2024-05-25	dulaj

Table 7: Bill Details Table

Billing\_Id - primary key / int / char - 5

BCustomer\_Id - varchar / char - 30

BPackage\_Id - varchar / char - 30

BHotel\_Id - varchar / char - 30

Country - varchar / char - 30

Total\_Price - varchar / char - 30

Date - date

Signature - varchar / char – 30

- Travelling Details,

TravelID	TCustomer_Id	THotel_Id	TPackage_Id	TFlight_Id	Visa_Number
1	1	1	1	1	333

Table 8: Travelling Details Table

TravelID - primary key / int / char - 5

TCustomer\_Id - int / char - 5

THotelid - int / char - 5

TPackage\_Id - int / char - 5

TFlight\_Id - int / char - 5

Visa\_Number - int / char – 30

- Flight Details,

FlightID	Triptype	From	To	AirLine	Phone	Departure	Return	Booked
14	RoundTrip	ss	ss	s	ss	2024-05-03	2024-05-03	0

Table 9: Flight Details Table

FlightID - primary key / int / char - 5

TripType - varchar / char - 30

From - varchar / char - 30

To - varchar / char - 30

Airline - varchar / char - 30

Phone - varchar / char - 12

Departure - varchar / char - 30

Return - varchar / char - 30

Booked - int

### 3.3 Interfaces

#### 1. Open Application (Loading),

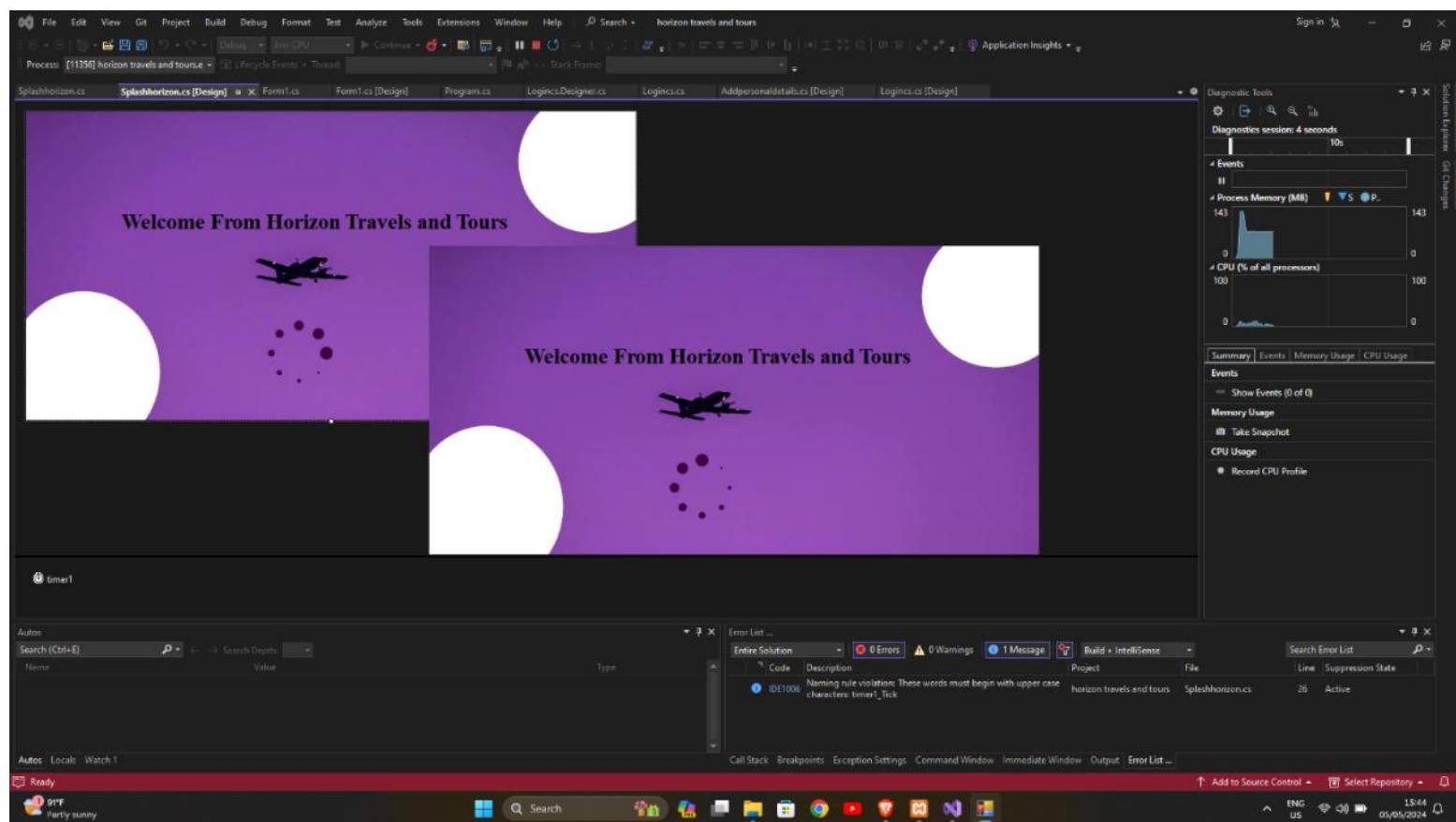


Figure 28: OPean Application (Loading) Interface

- The project name is “Horizon Travels and Tours Management System”. The project is currently in loading mode. This is the first view of our system.

## 2. Login,

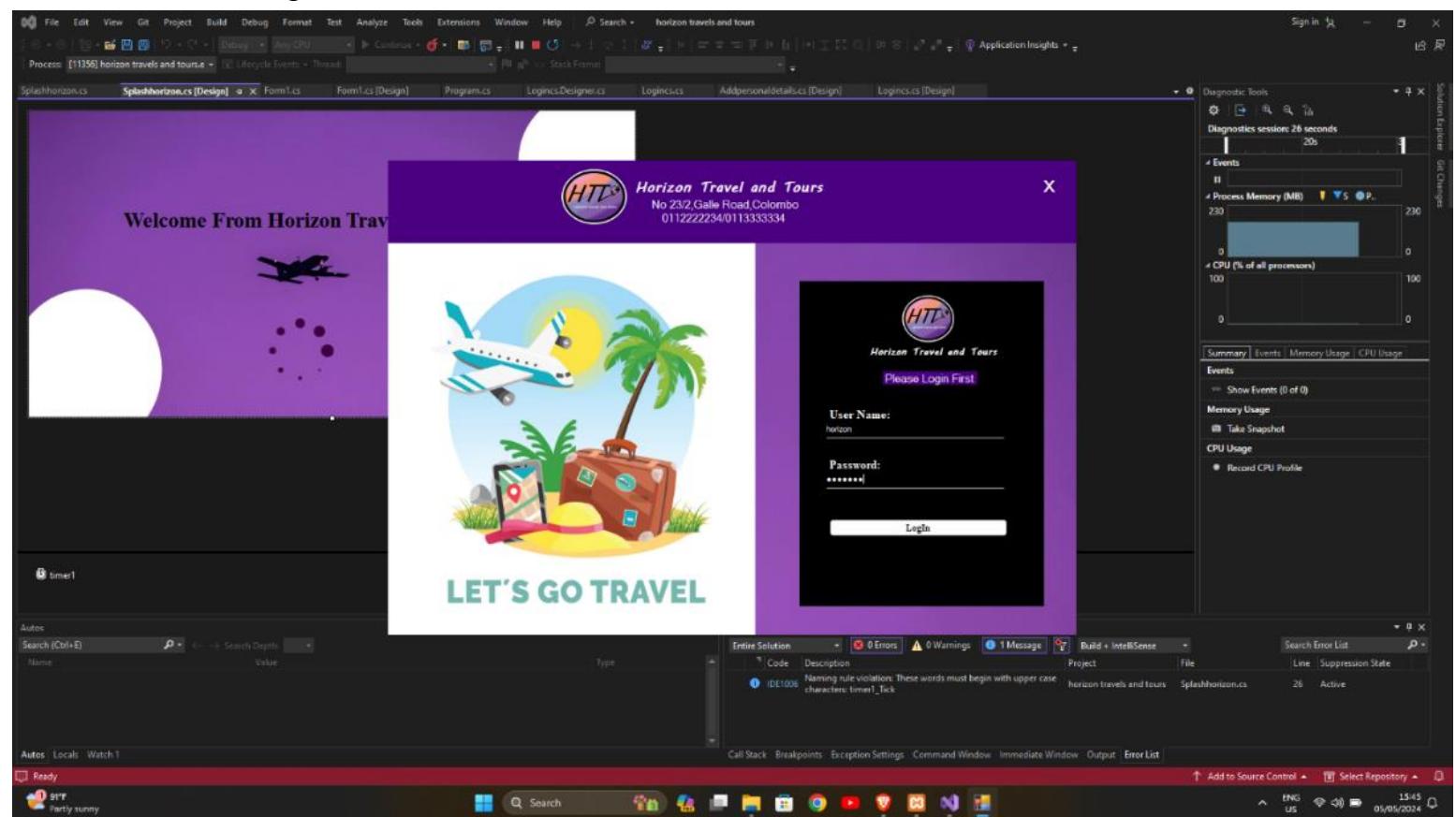


Figure 29: Login Interface

- The screen includes a login form below. The form includes two fields for the user (Admin) to input their Username and password. The word “Press Login First” is displayed above the form, indicating that the user needs to log in to access the system.

### 3. Dashboard,

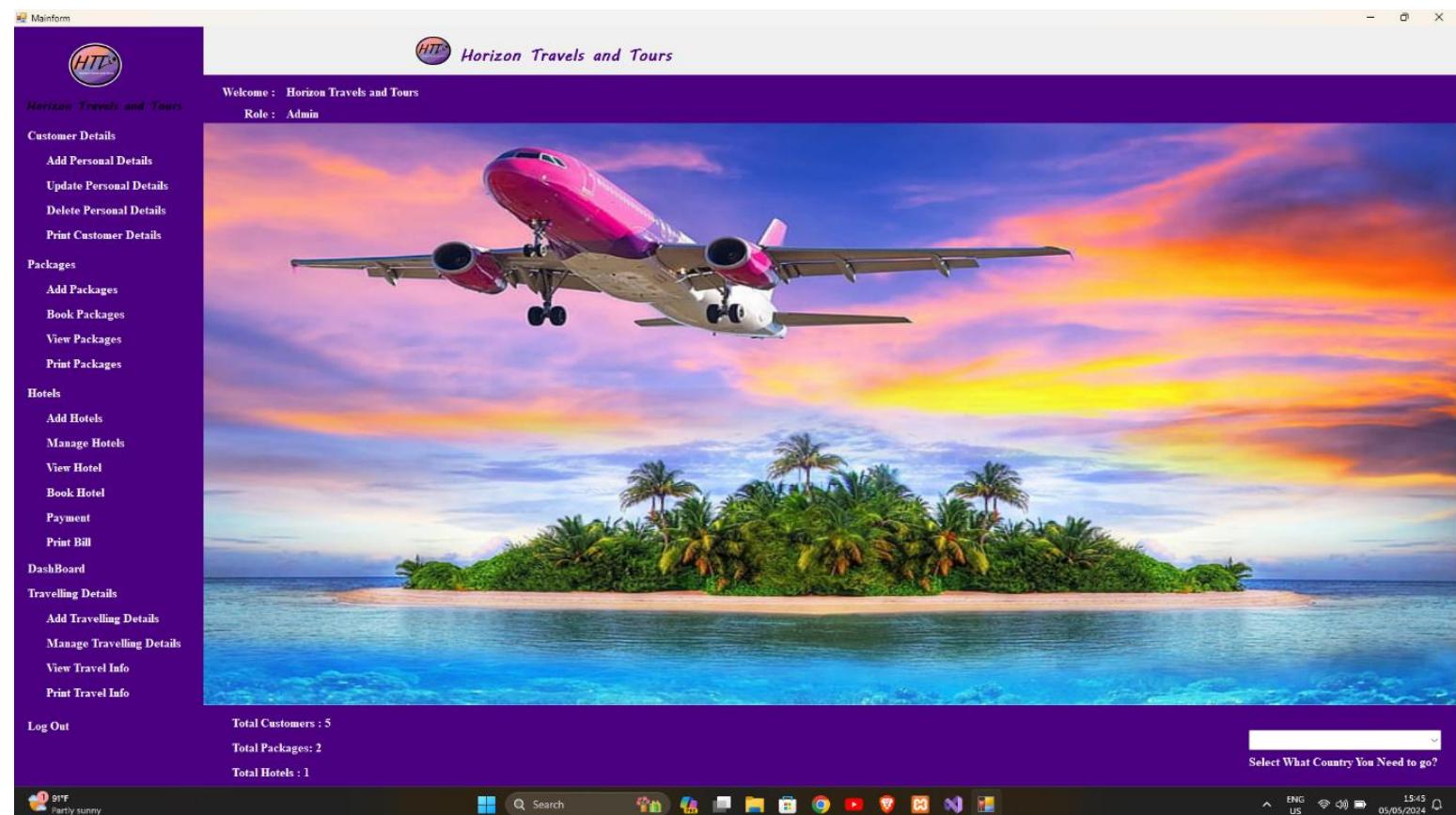


Figure 30: Dashboard Interface

- The context appears to describe the user interface of a system, specifically a travel agency management system called Horizon Travels and Tours. The system has various modules, including Customer Details, Packages, Hotels, Payment, and Travelling Details.
- The system should allow the user to add, update, delete, and print customer details, add, and manage packages, add and manage hotels, book packages and hotels, print bills, and manage traveling details.

#### 4. Customer Details,

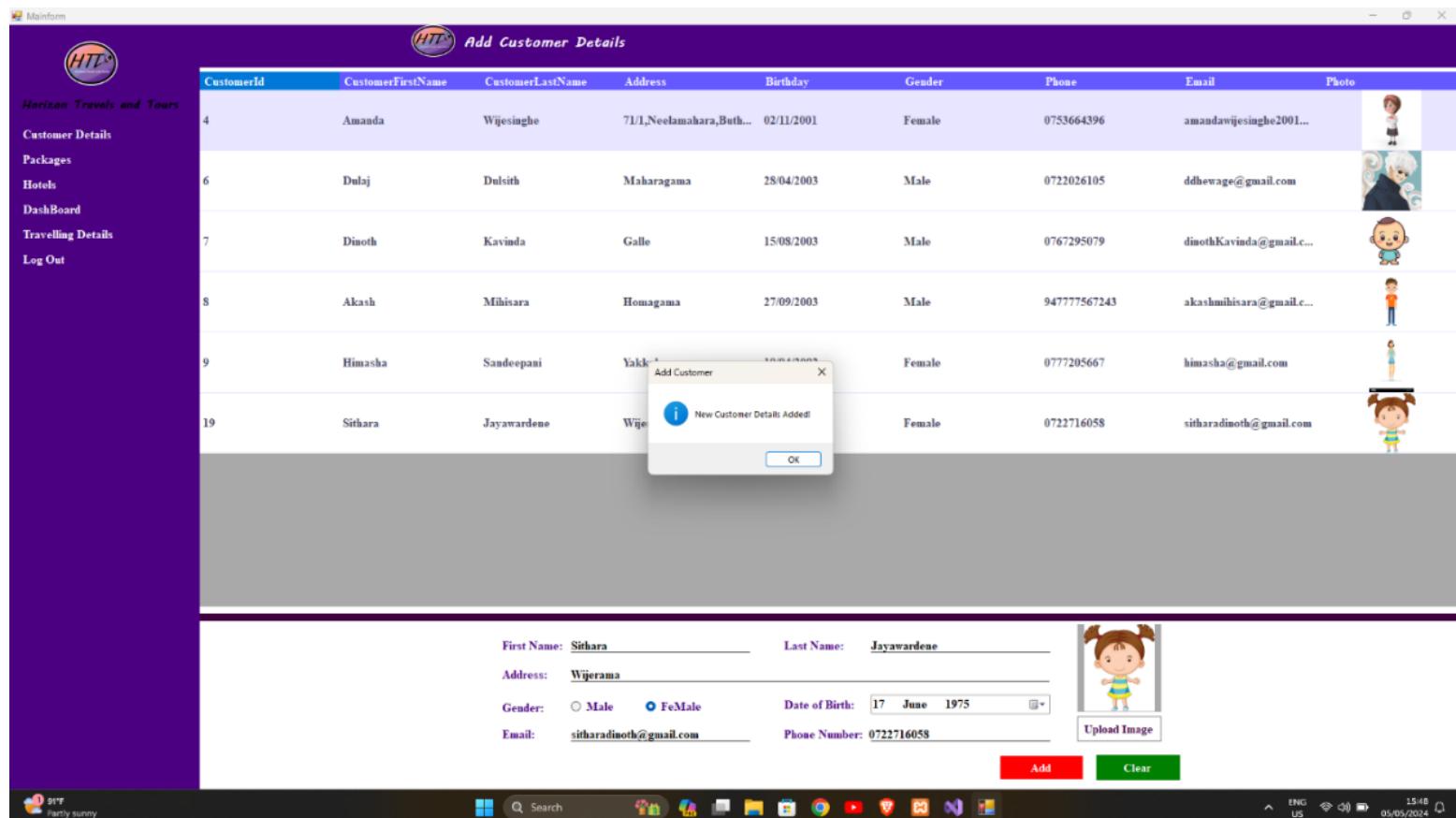


Figure 31: Add Customer Details Interface

- The interface includes various fields for customer details, such as first name, last name, address, birthday, gender, phone, and email.
- From the visible fields, we can see that a new customer, Sithara Jayawardene, has been added. Her first name, last name, address (Wijerama), gender (Female), date of birth (17th June 1975), email ([sitharadinoth@gmail.com](mailto:sitharadinoth@gmail.com)) and phone numbers (0722716058) are all filled in. After entering Customer Details and clicking Add button for add new customer details, the user can see Successful message for “new customer details added”.

i. Add Image for customer Details,

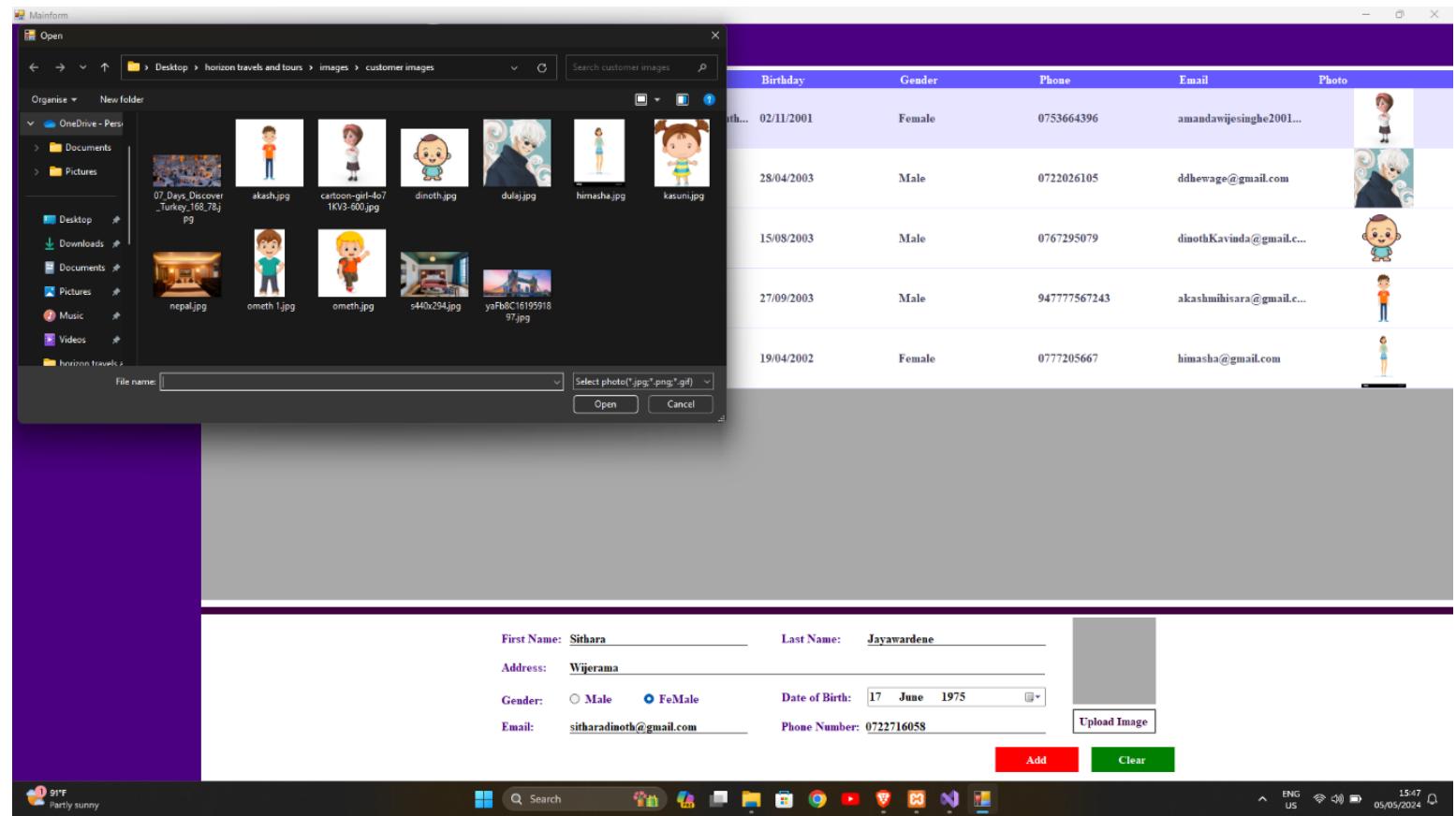


Figure 32: Add Image for Customer Details Interface

b) Update Customer Details,

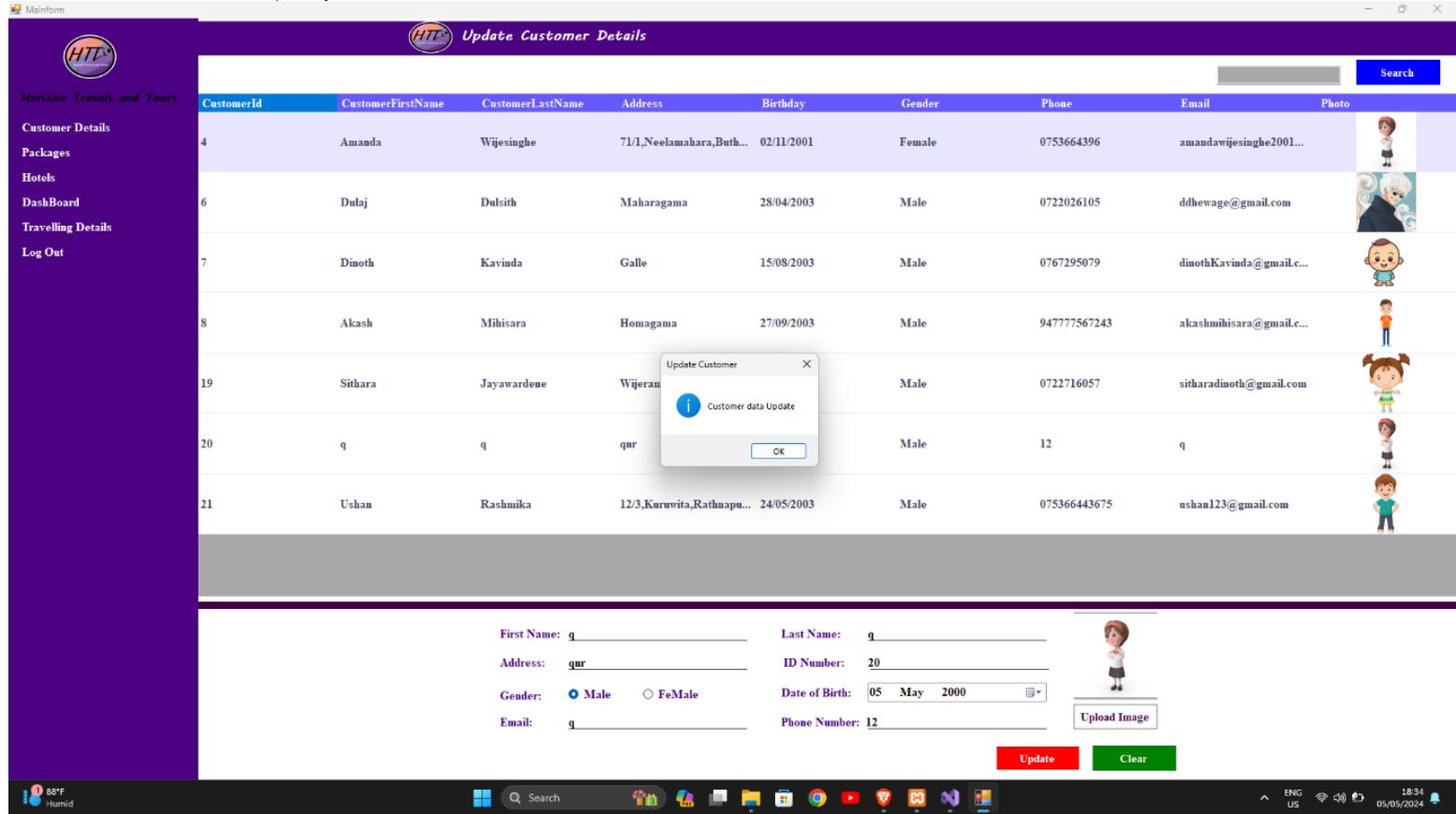


Figure 33: Update Customer Details Interface

- After entering Customer Details and clicking Update button for update customer details, the user can see Successful message for “new customer data update”.

c) Delete Customer Details,

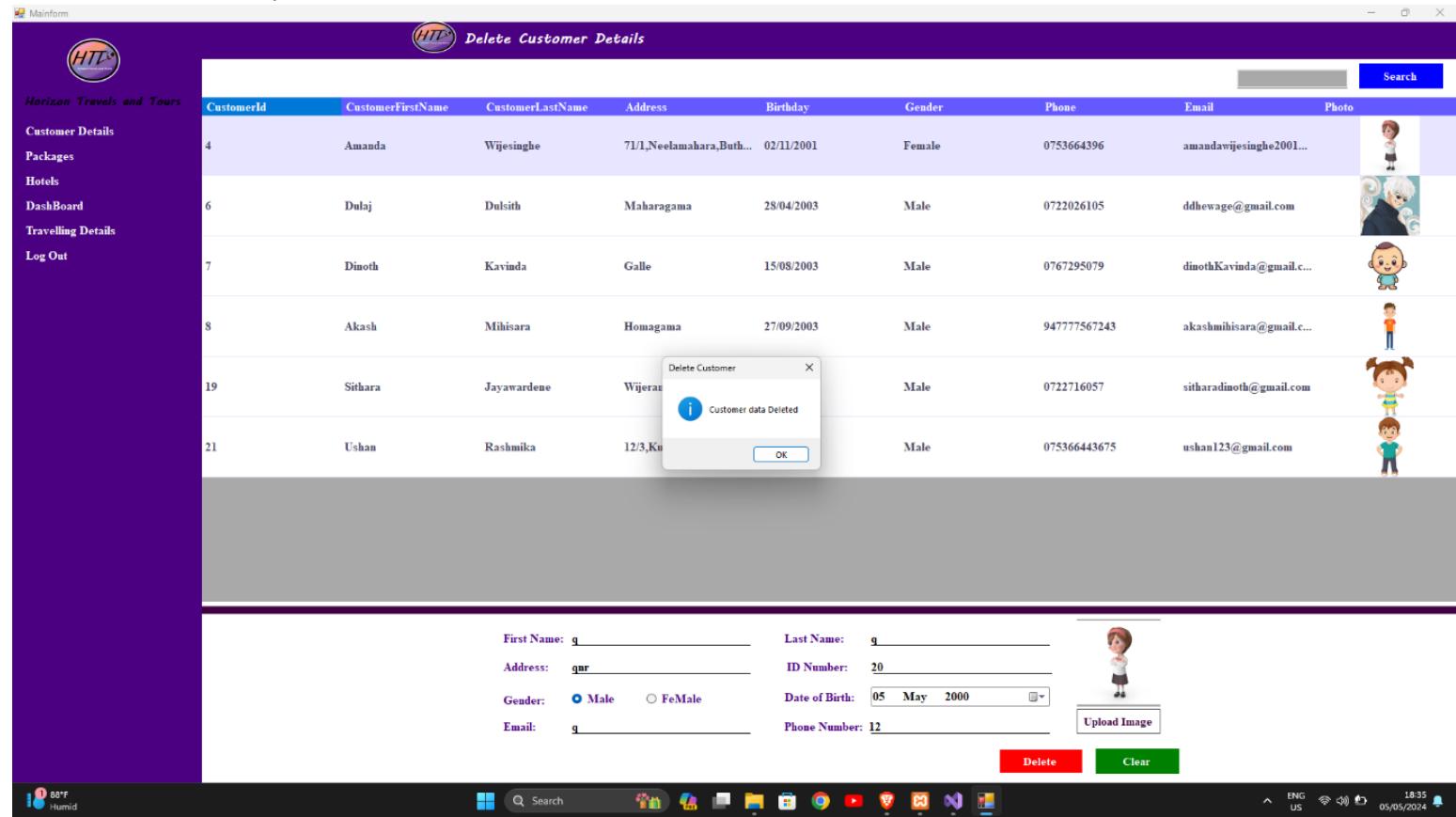


Figure 34: Delete Customer Details Interface

- If a customer detail doesn't need any more management can delete the details and after that the message box shows "Customer details deleted".
- After entering Customer Details and clicking Delete button for delete customer details, the user can see Successful message for "new customer data deleted".

d) Print Customer Details,

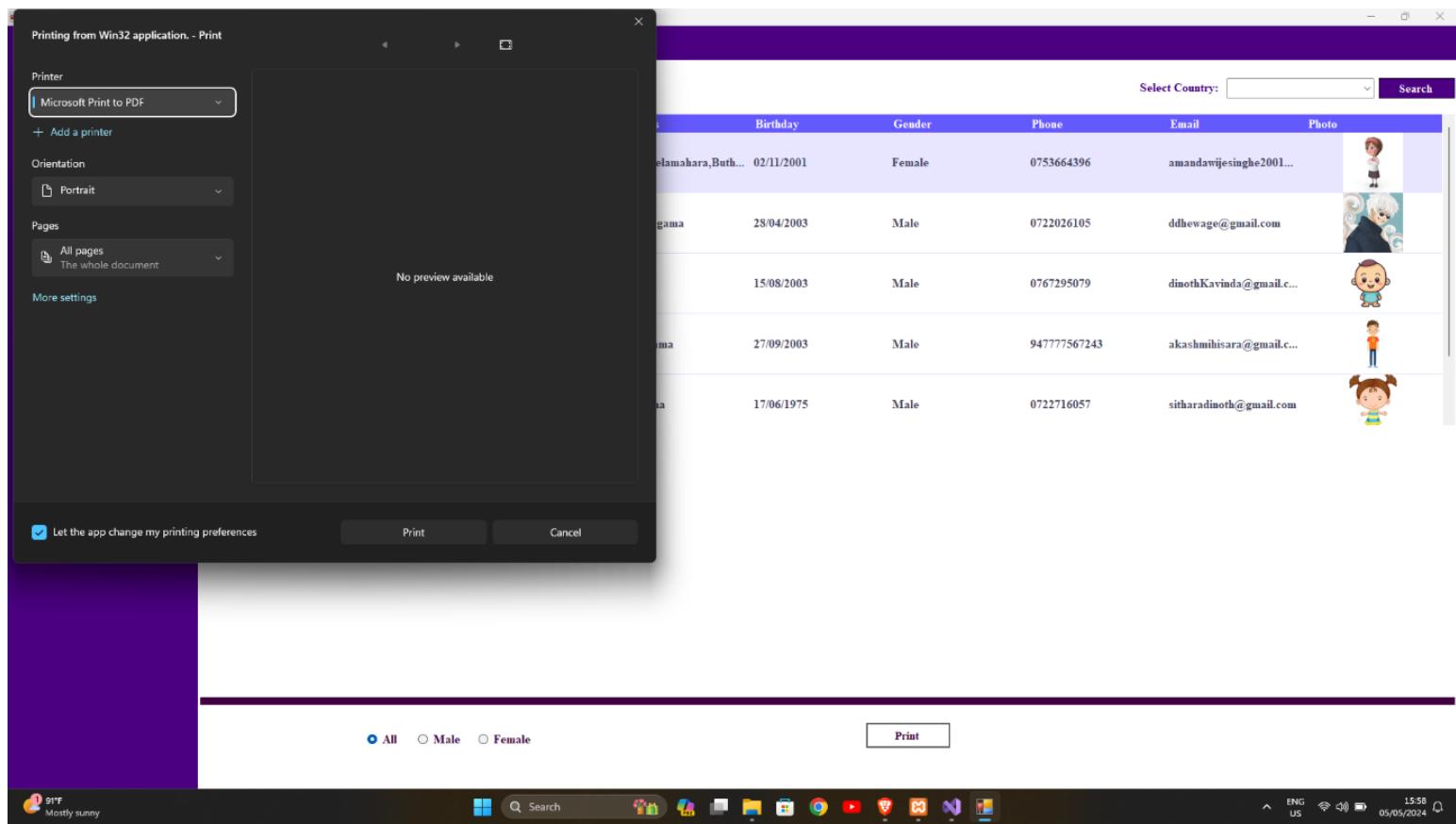


Figure 35: Print Customer Details Interface

- In System Analysis and Design, this dialog box is an example of a user interface element that allows the user to interact with the system. The print dialog box contains several components.

## 5. Package Details,

### a) Add package details,

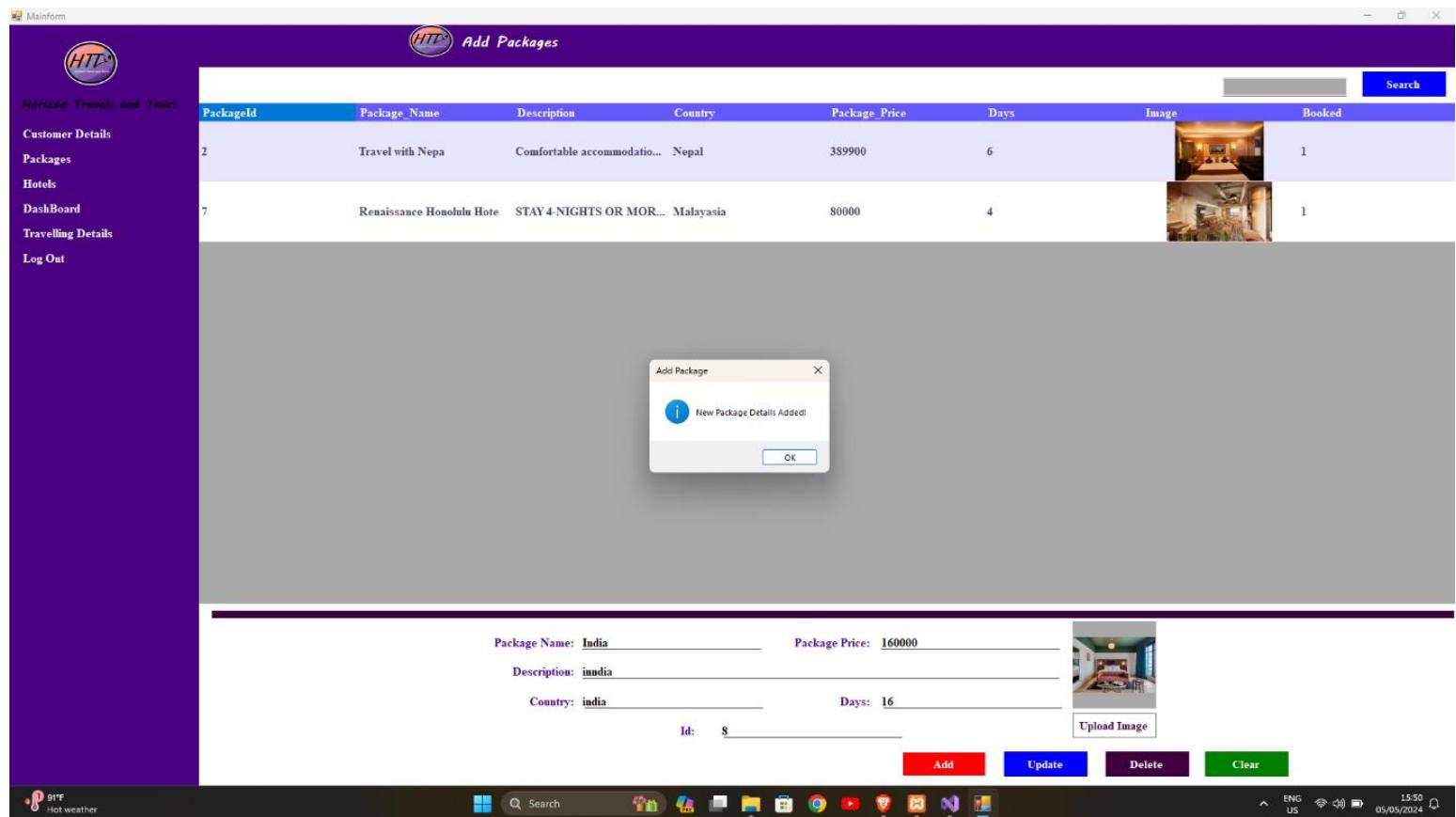


Figure 36: Add Package details Interface

### b) Update Package Details,

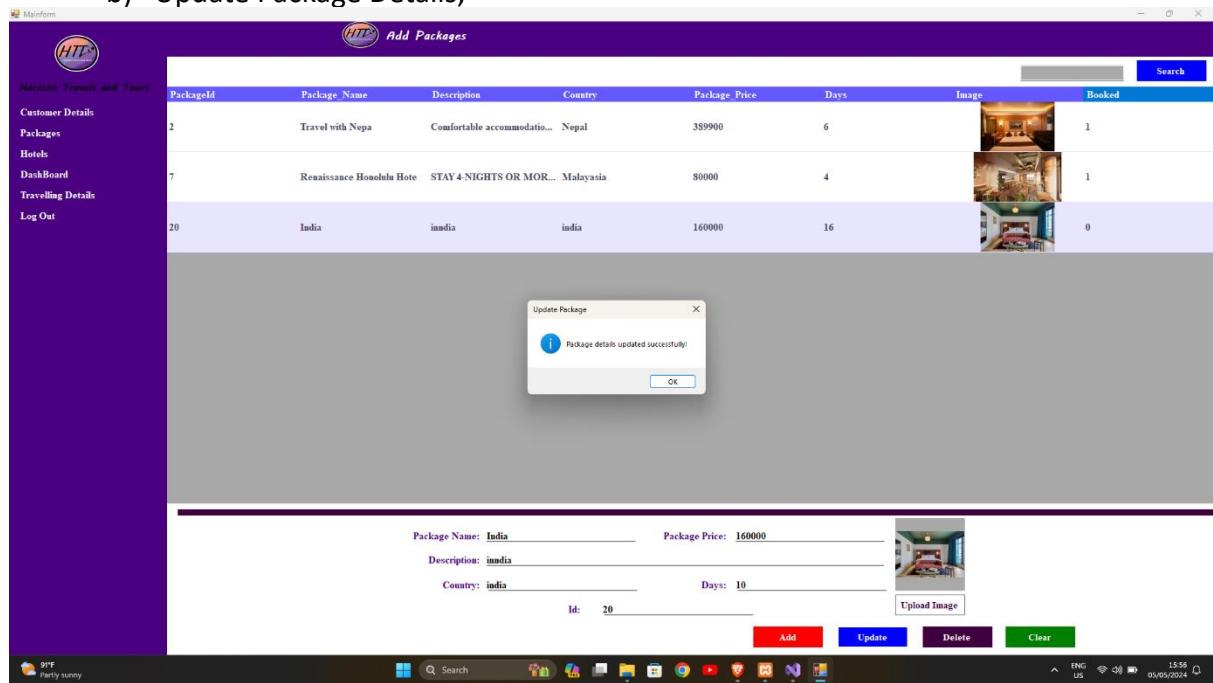


Figure 37: Update Package Details Interface

c) Delete Package Details,

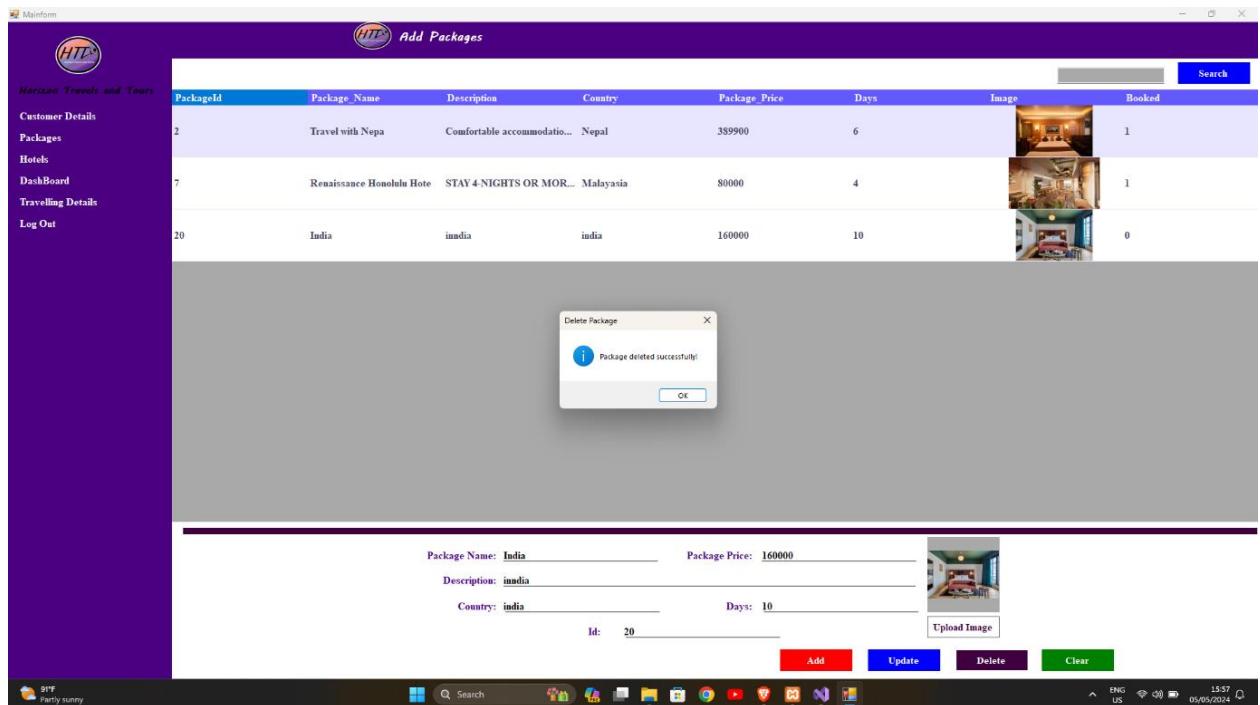


Figure 38: Delete Package Details InterFace

- These three actions in one interface and 3 buttons but when clicking a button each button gives different successful massage about their activity.

d) View Package Details,

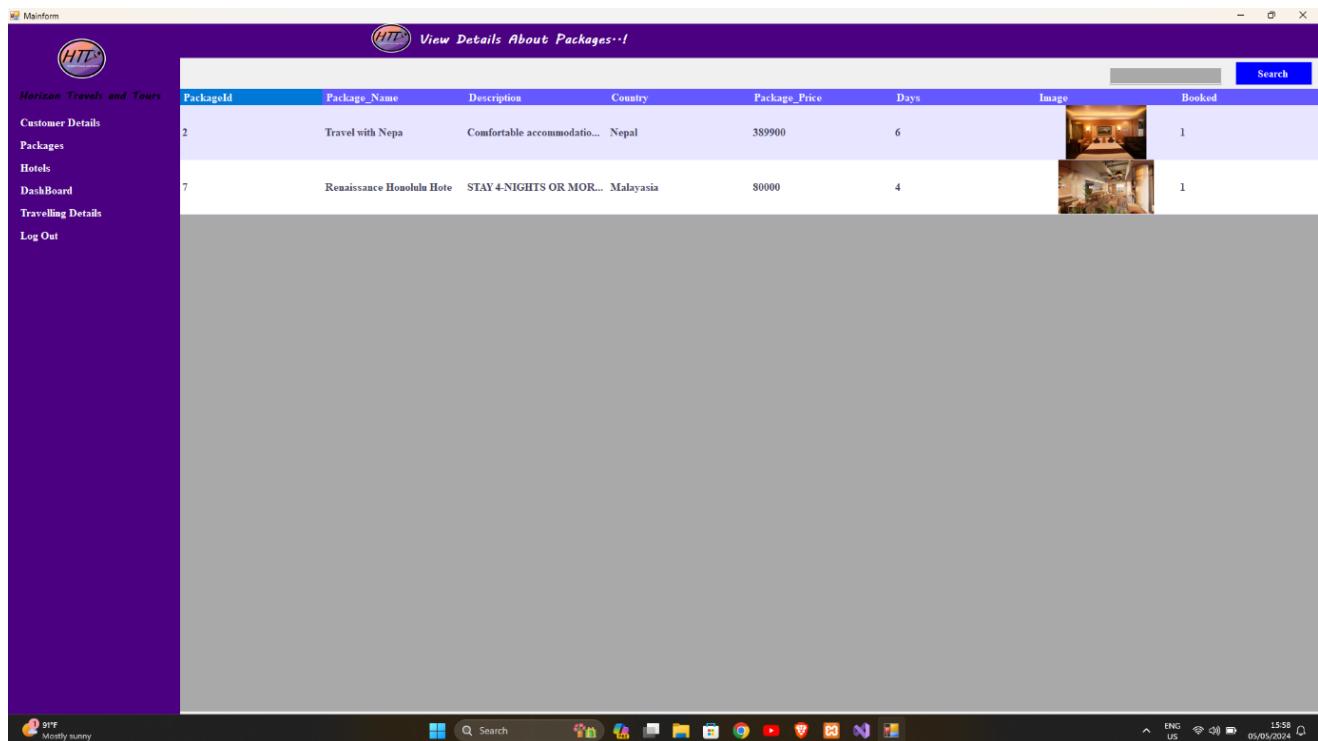


Figure 39: View Package Details Interface

e) Print Package Details,

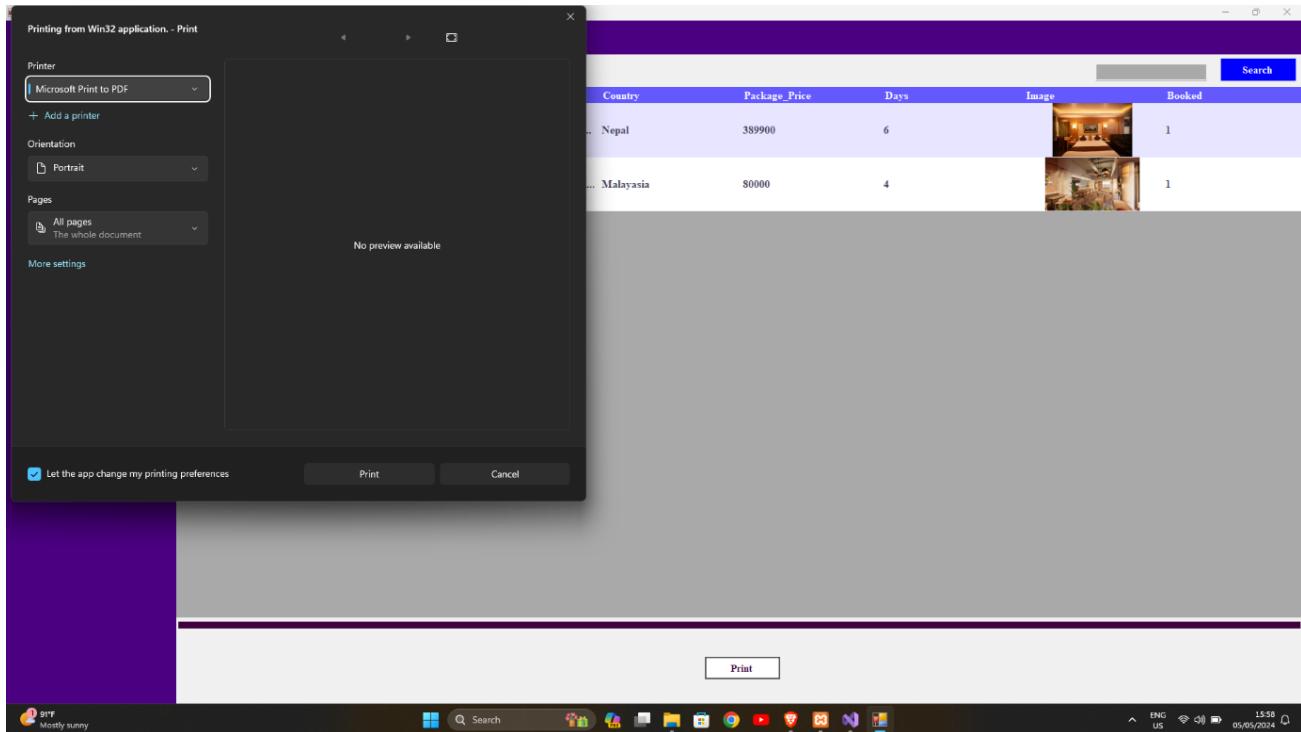


Figure 40: Print Package Details Interface

6. Hotel Details,

a) Add Hotel Details,

HotelId	HotelName	Location	Price	CheckIn	CheckOut	Rating	Image	Booked	
1	The Chow Kit	Kuala Lumpur	78000	78000	28/04/2024	29/04/2024	5		1

Figure 41: Add Hotel Details Interface

- A form to add hotel details, including fields for hotel name, location, phone number, price, check-in and check-out dates, and rating.

b) Manage Hotel Details,

i. Update Hotel Details,

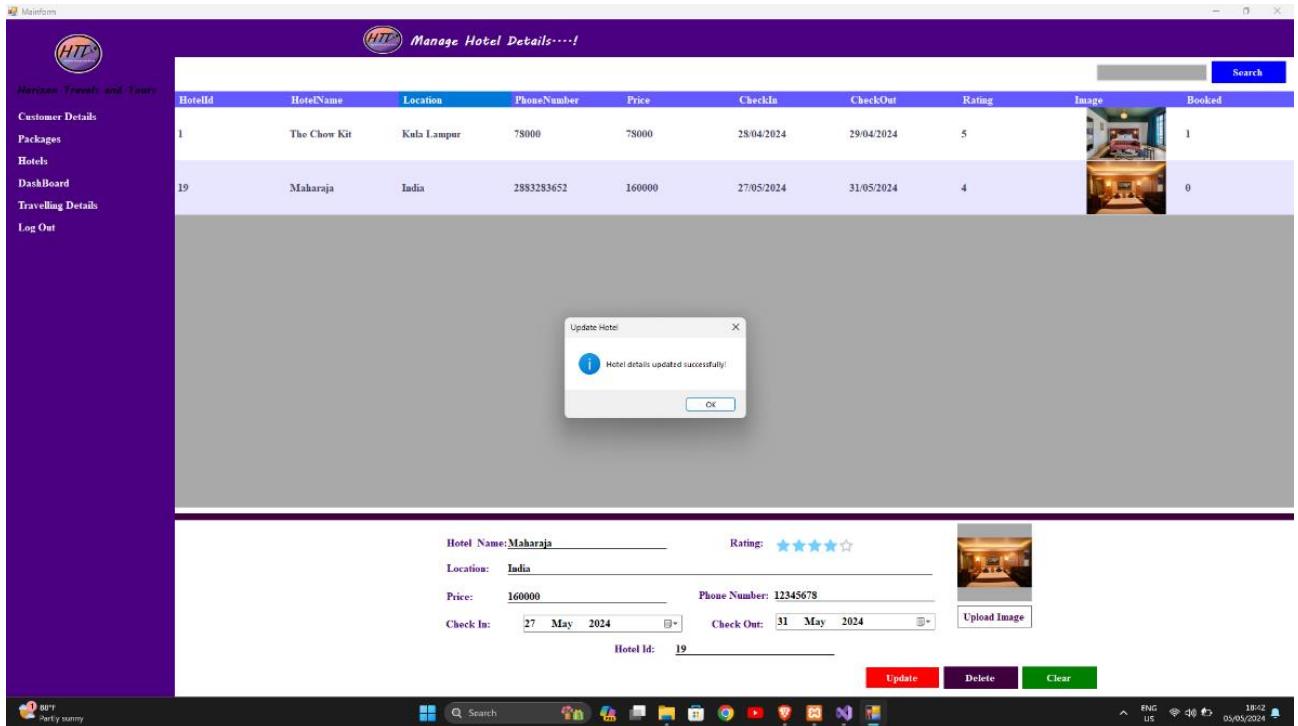


Figure 42: Update Hotel Details Interface

ii. Delete Hotel Details,

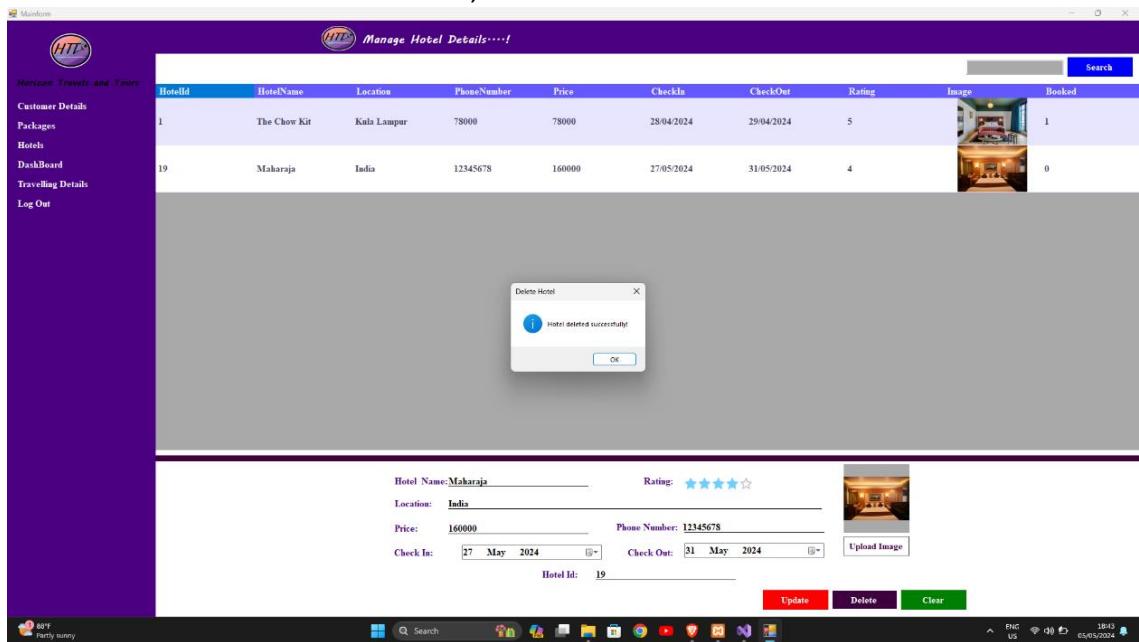


Figure 43: Delete Hotel Details Interface

- These Two button in one interface. It is a “Maage hotel details interface”, but these two buttons have different actions and different messages for their actions.
  - This system appears to handle customer details, hotel management, package details, and travel details. We can also delete the hotel details.
- c) View Hotel Details,

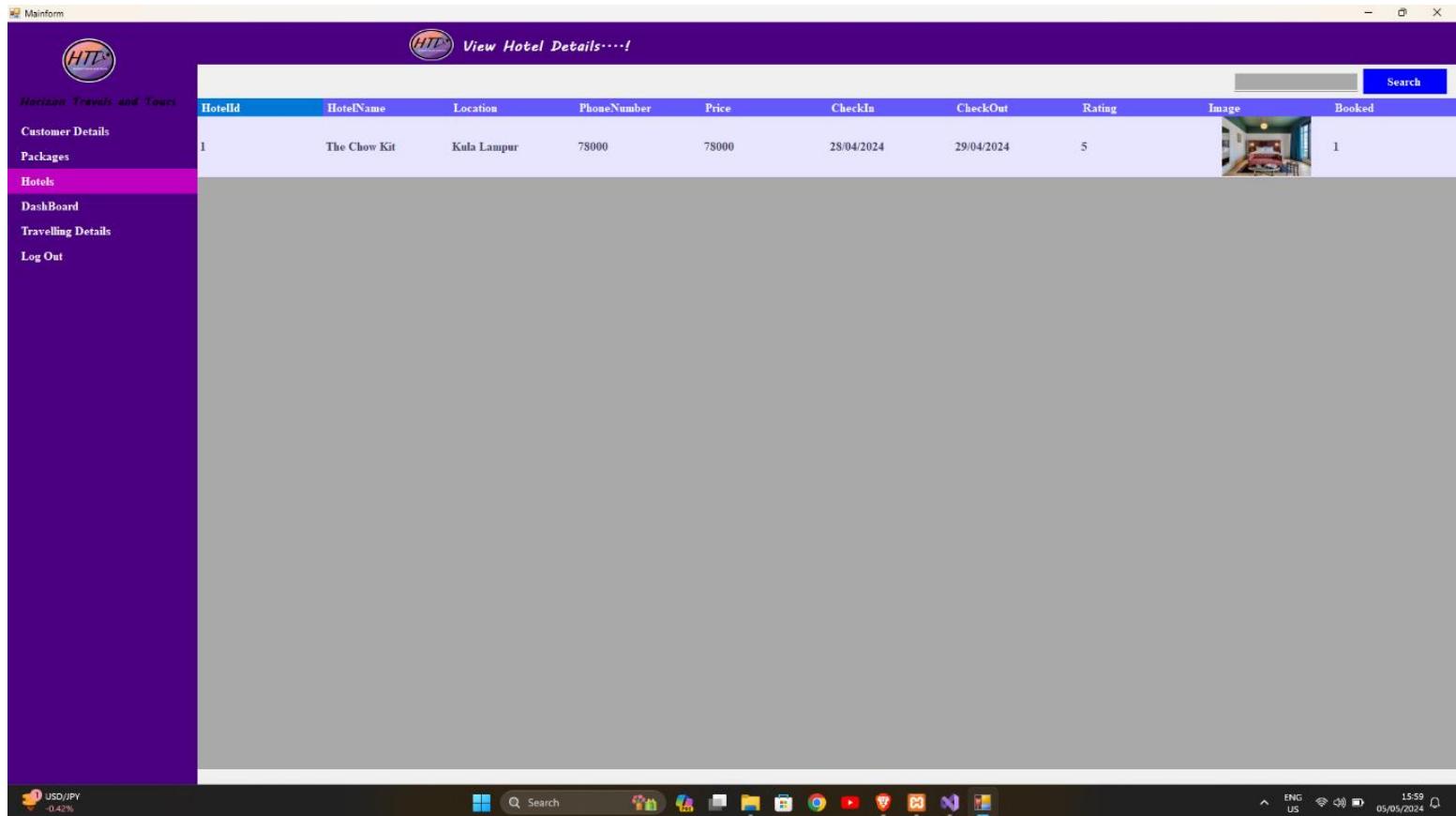


Figure 44: View Hotel Details Interface

d) Book Hotel Details,

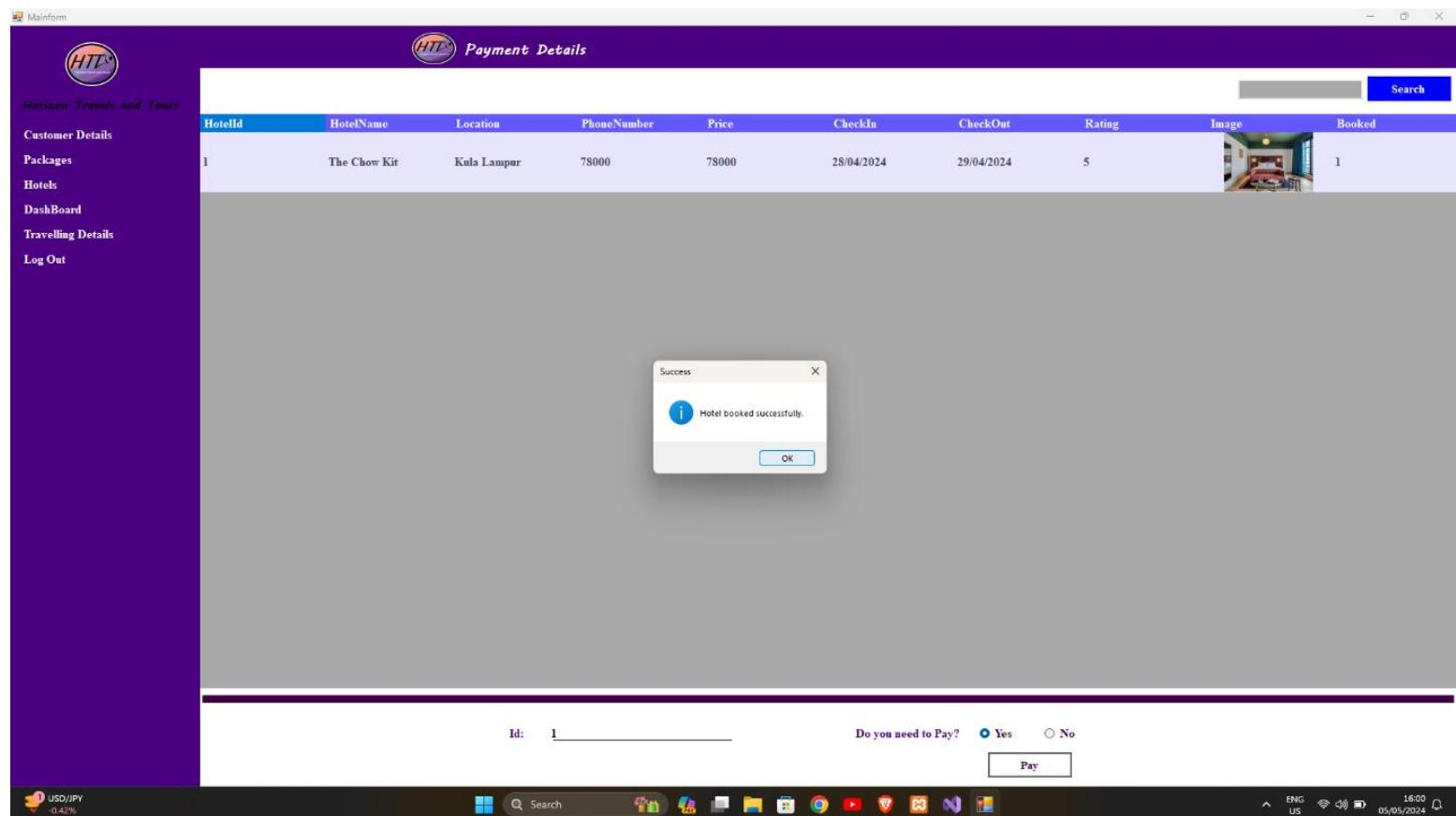


Figure 45: Book Hotel Details Interface

- This appears to be a user interface for a hotel booking system, specifically displaying the details of a hotel. From a System Analysis and Design perspective, this interface could be part of a larger system that allows customers to search, book, and manage their hotel reservations.

e) Payment,

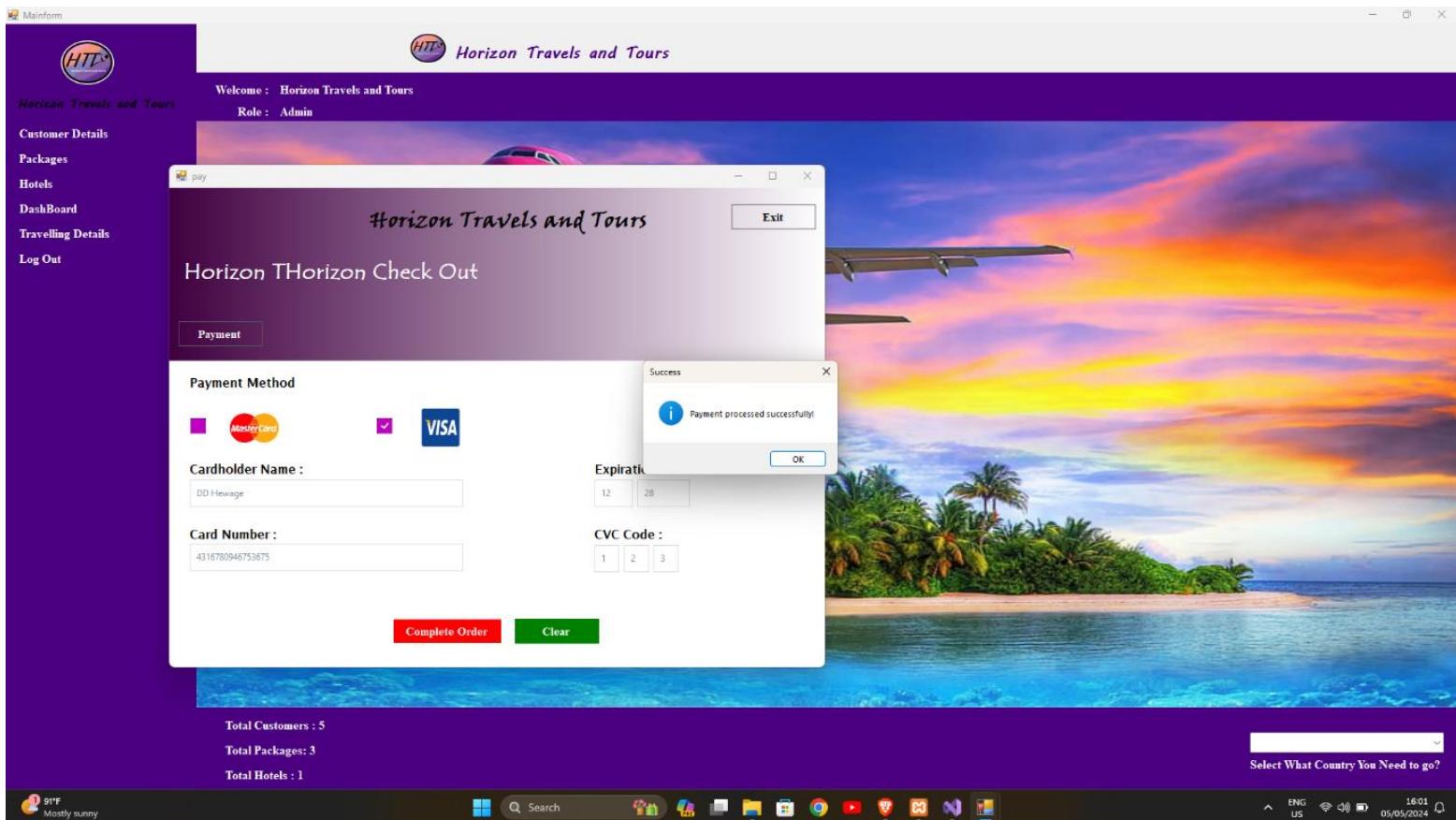


Figure 46: Payment (Card Details) Interface

- This interface could be part of a larger system that manages hotel bookings. The system would likely include a database to store customer and hotel information, a user interface for customers to make bookings and view information, and a payment processing system.

- f) Print Bill,  
i. Bill Statement,

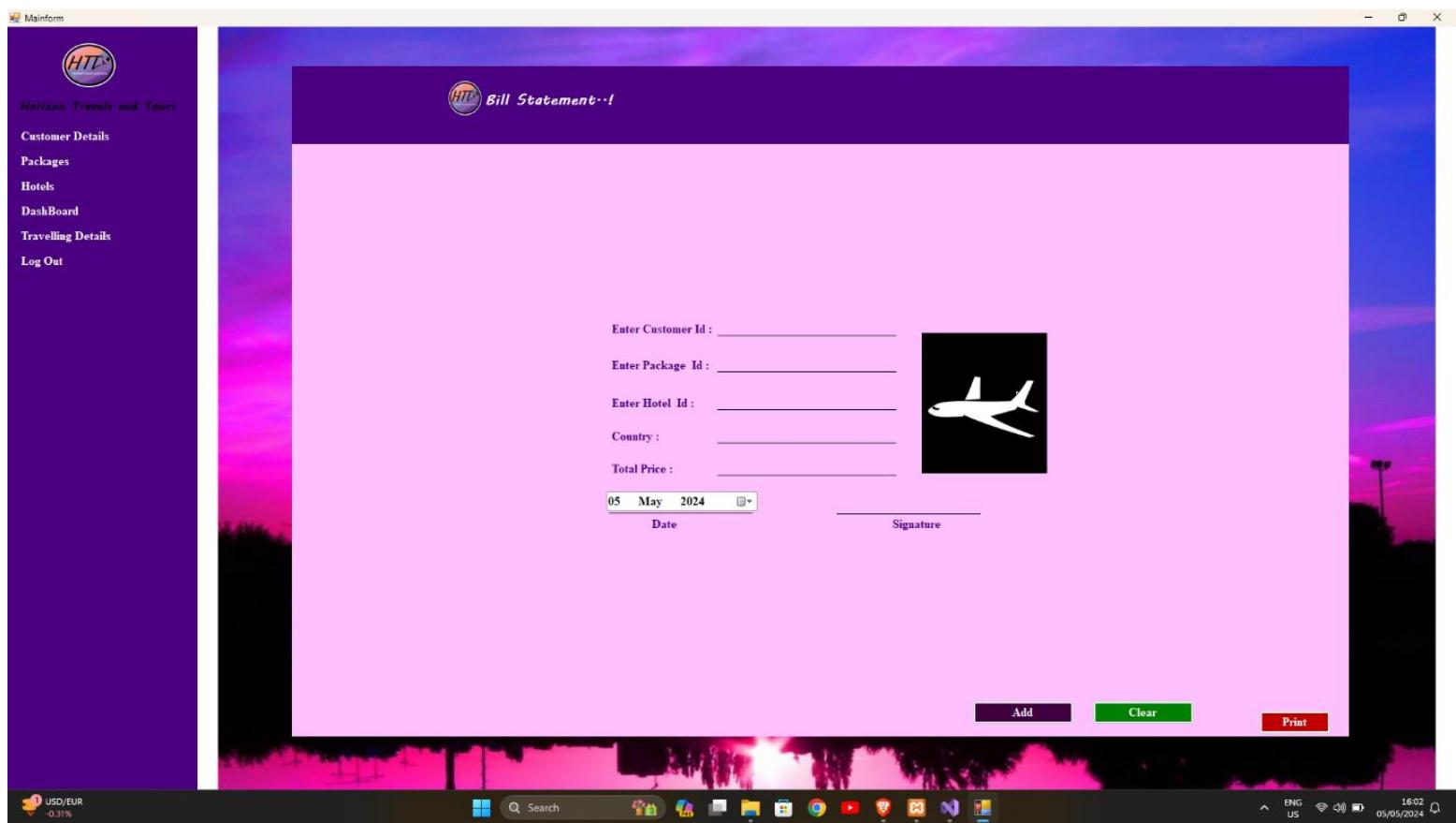


Figure 47: Bill Statement Interface

ii. Add Bill Details,

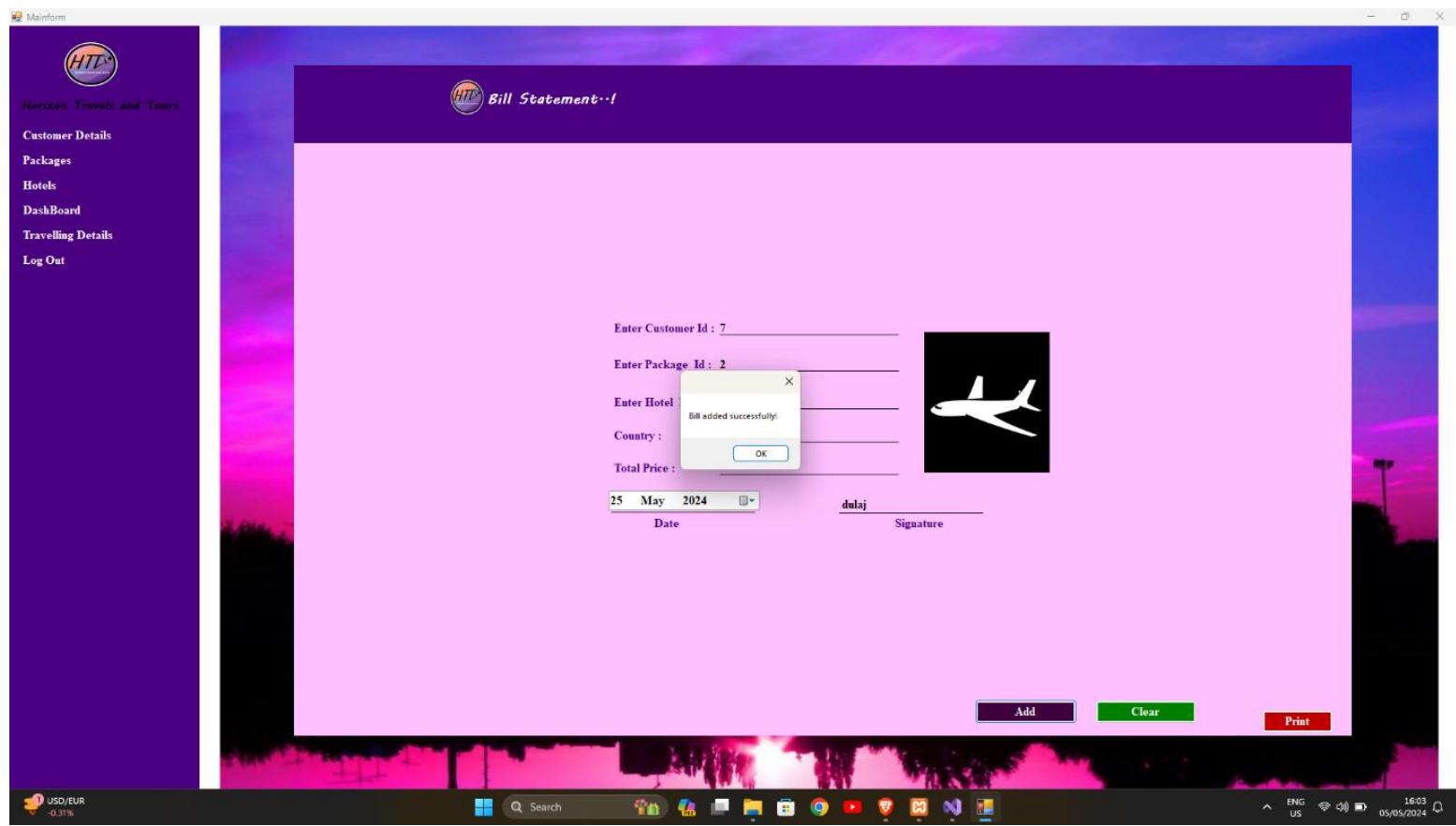


Figure 48: Add Print Details Interface

- The interface includes various options such as "Customer Details", "Packages", "Hotels", "Dashboard", "Travelling Details", and "HTT Bill Statement". There are also fields for entering customer ID, package ID, hotel ID, and country. Additionally, there are fields for total price, date, and signature. The interface also includes options for adding, clearing, and printing information, as well as a language selection option and a time and date display.

### iii. Print Bill,

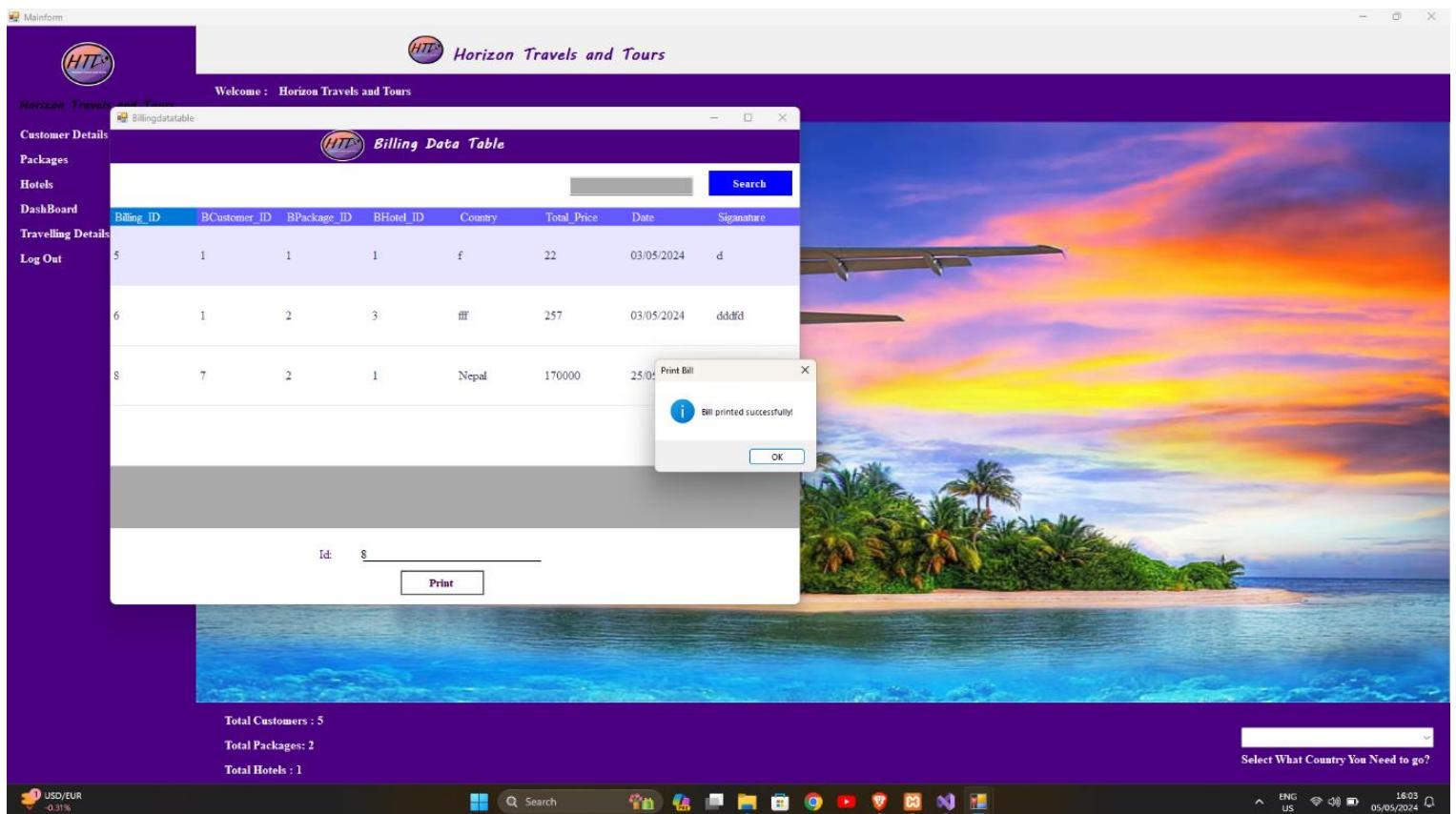


Figure 49: Print Bill Interface

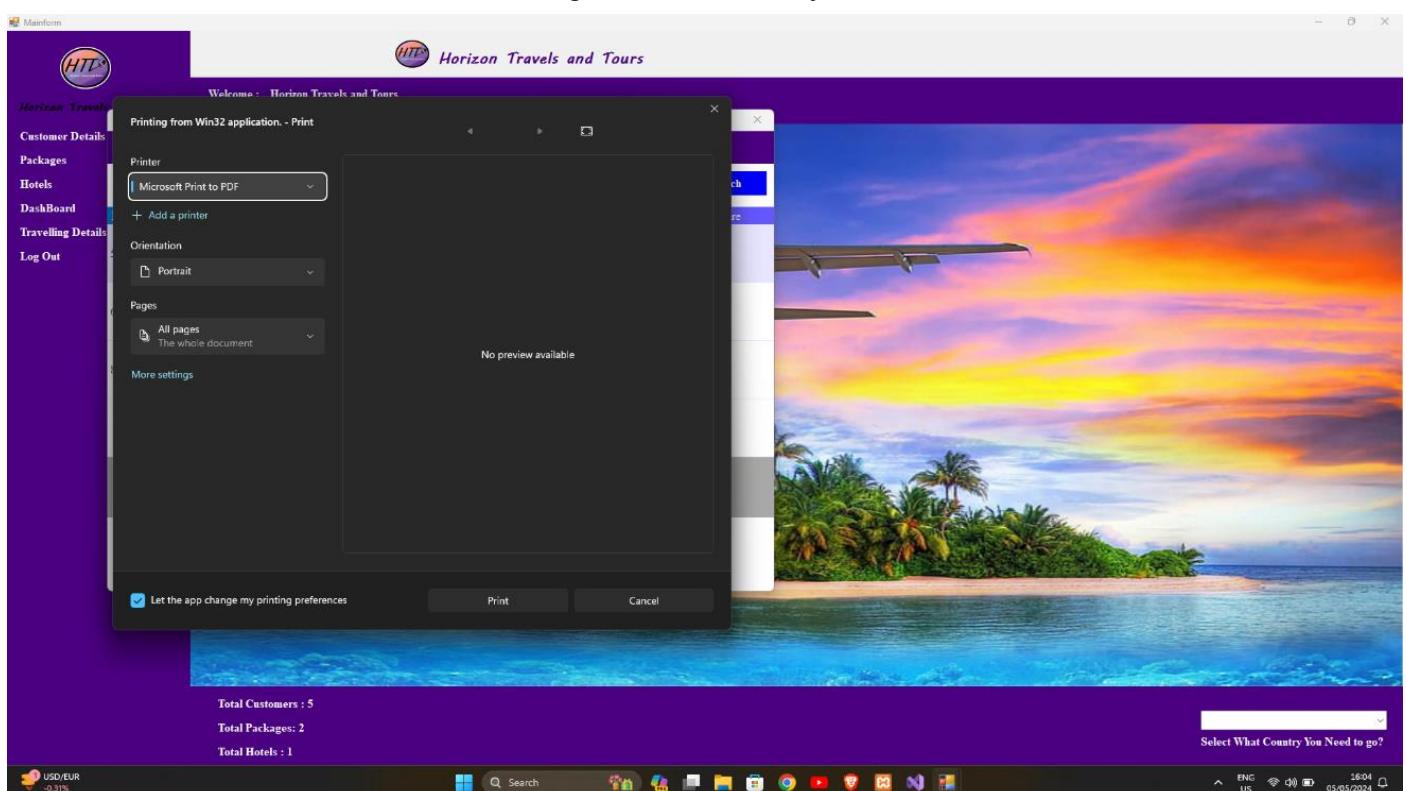


Figure 50: Print Bill Interface (After Click print Button)

## 7. Travelling Details,

### a) Add Travelling Details,

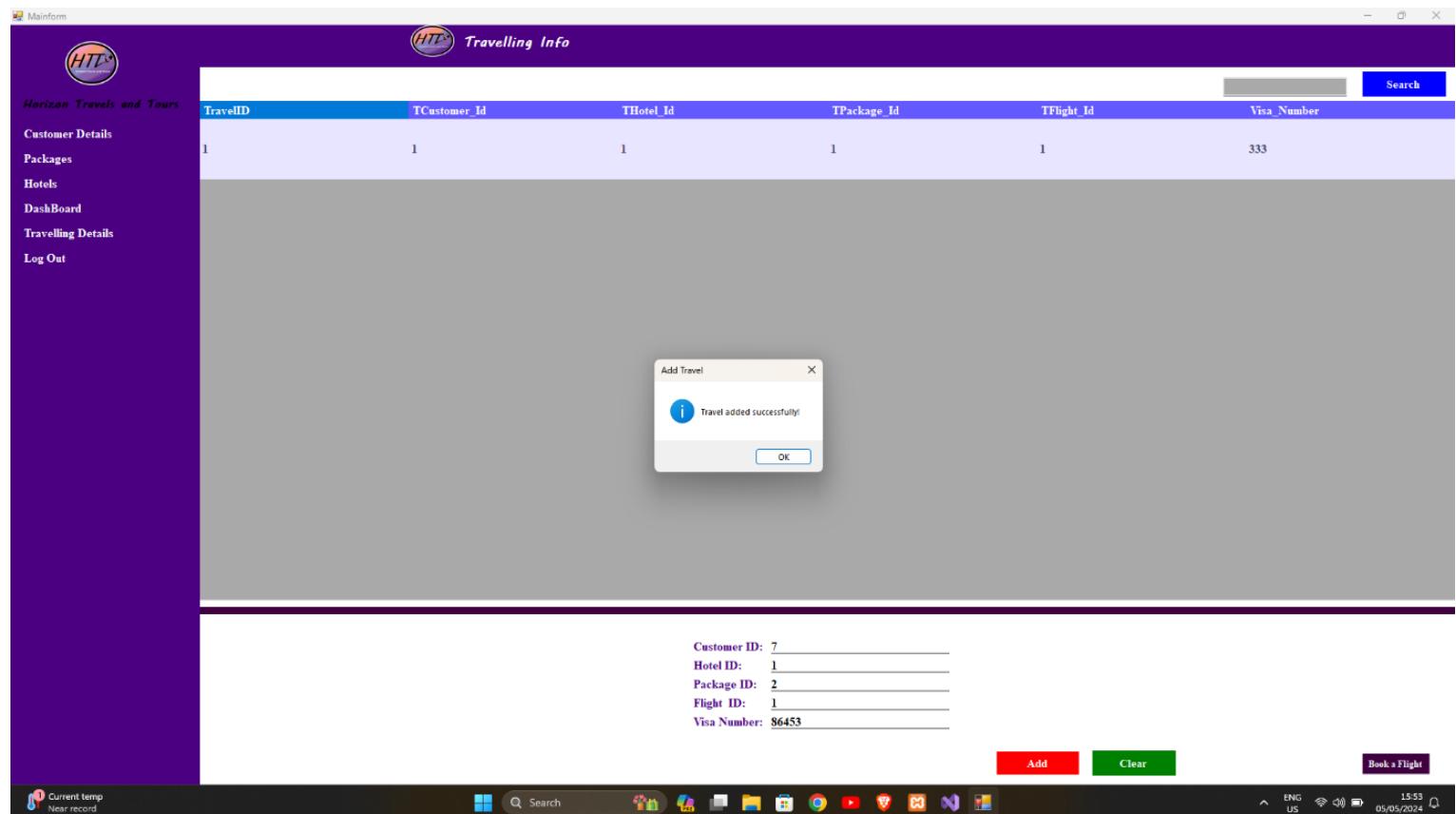


Figure 51: Add Travelling Details Interface

- This appears to be a user interface for a travel booking system, specifically the payment processing page. From a System Analysis and Design perspective, this interface can be broken down into several components.

b) Manage Travelling Details,

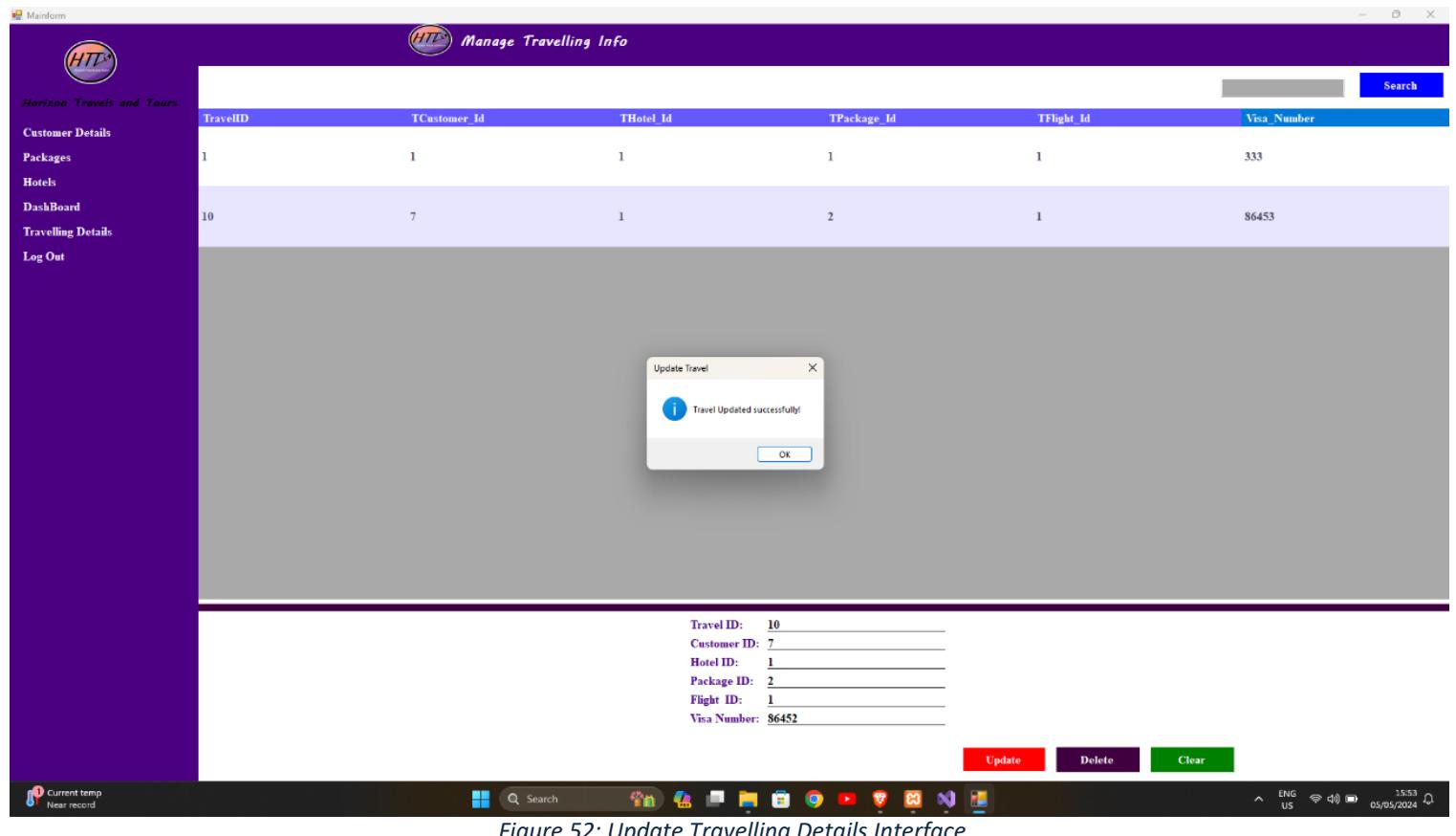


Figure 52: Update Travelling Details Interface

ii. Delete Travelling Details,

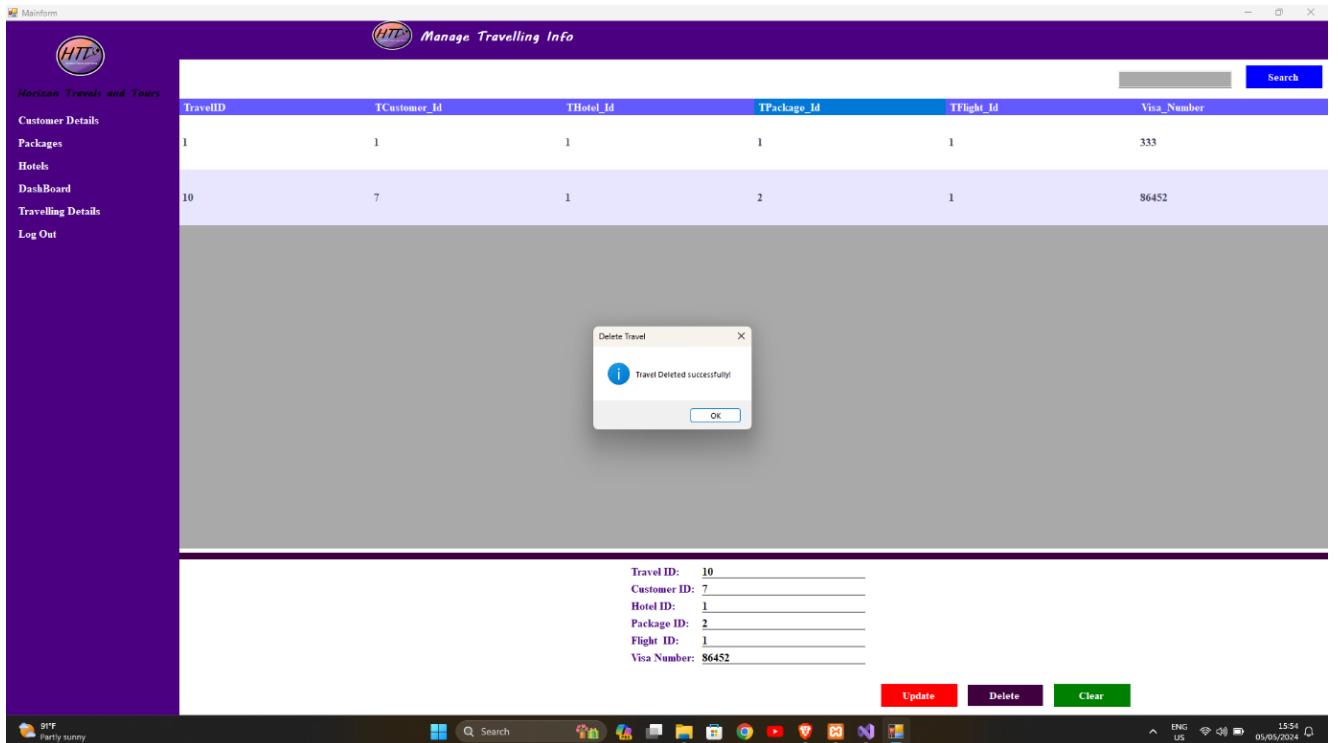


Figure 53: Update Travelling Details Interface

c) Book a flight,

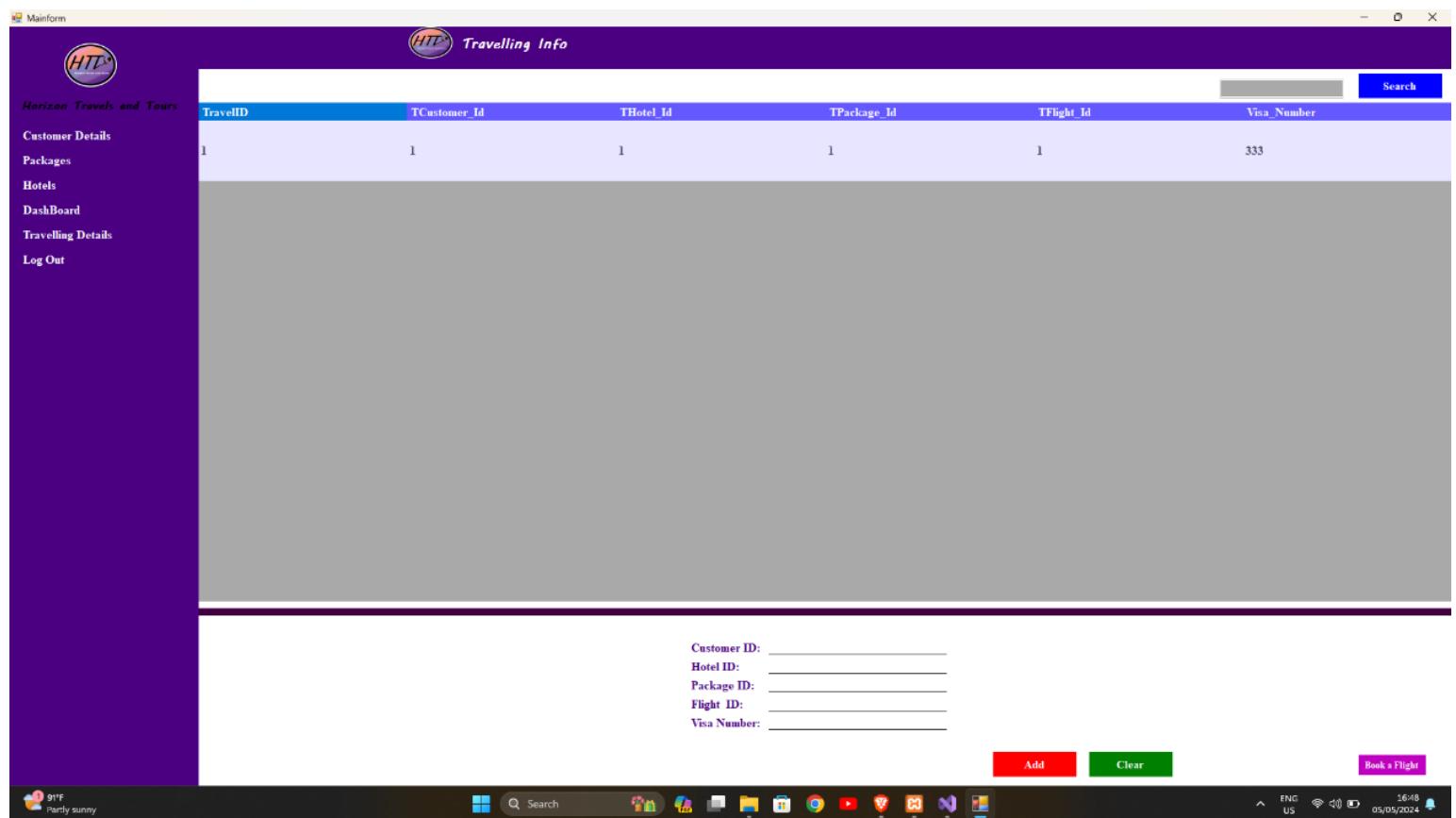


Figure 54: Book a Flight Interface

- We can book a flight by clicking the “Book a Flight” button at the bottom of the Travelling info page. Then book a flight form will display.

i. Add travelling Details for book a flight,

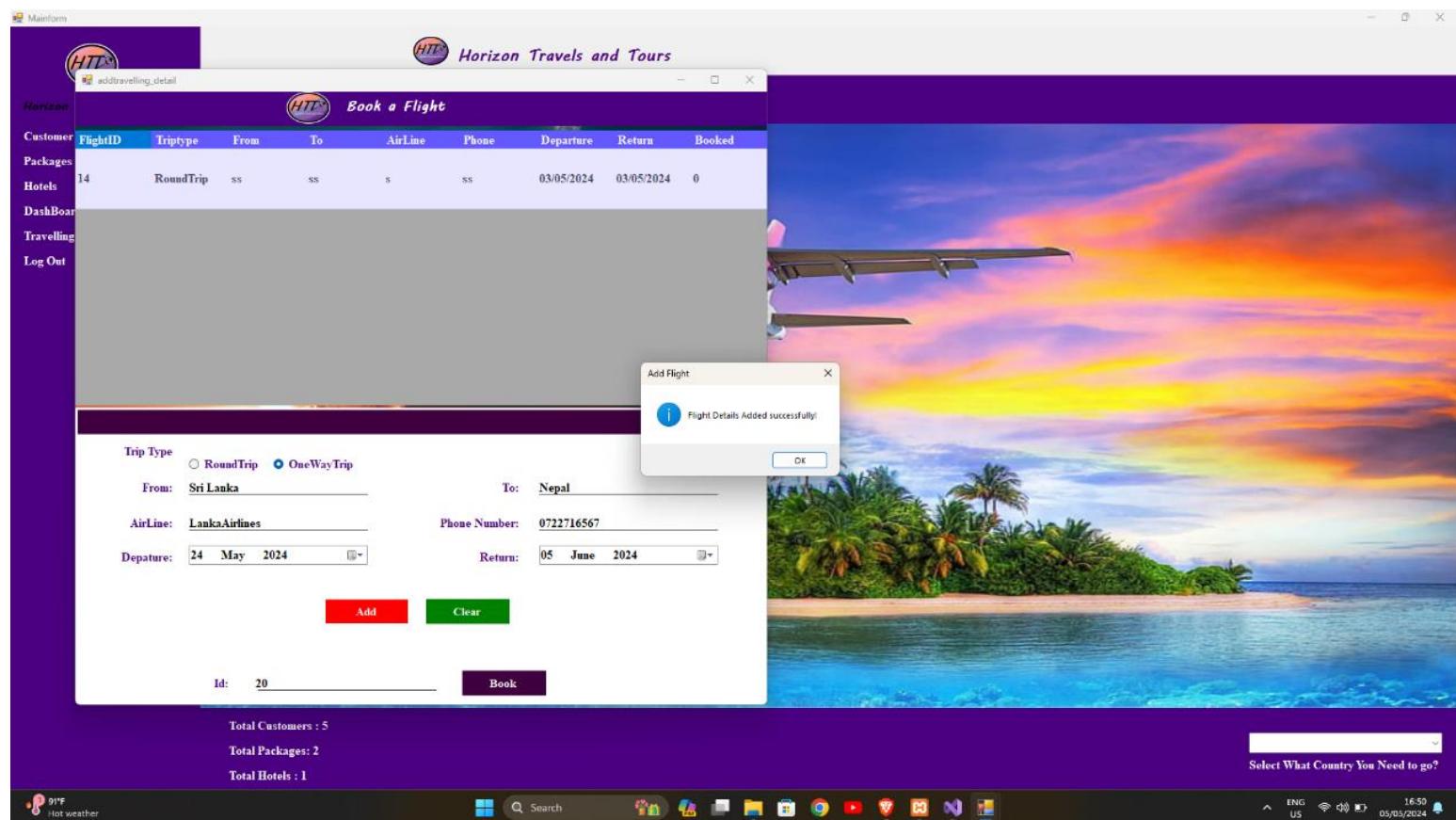


Figure 55: Add Details For Booking a Flight Interface

- After fill this form and clicking the Book button a flight will be booked through the system.

ii. Booking Successful,

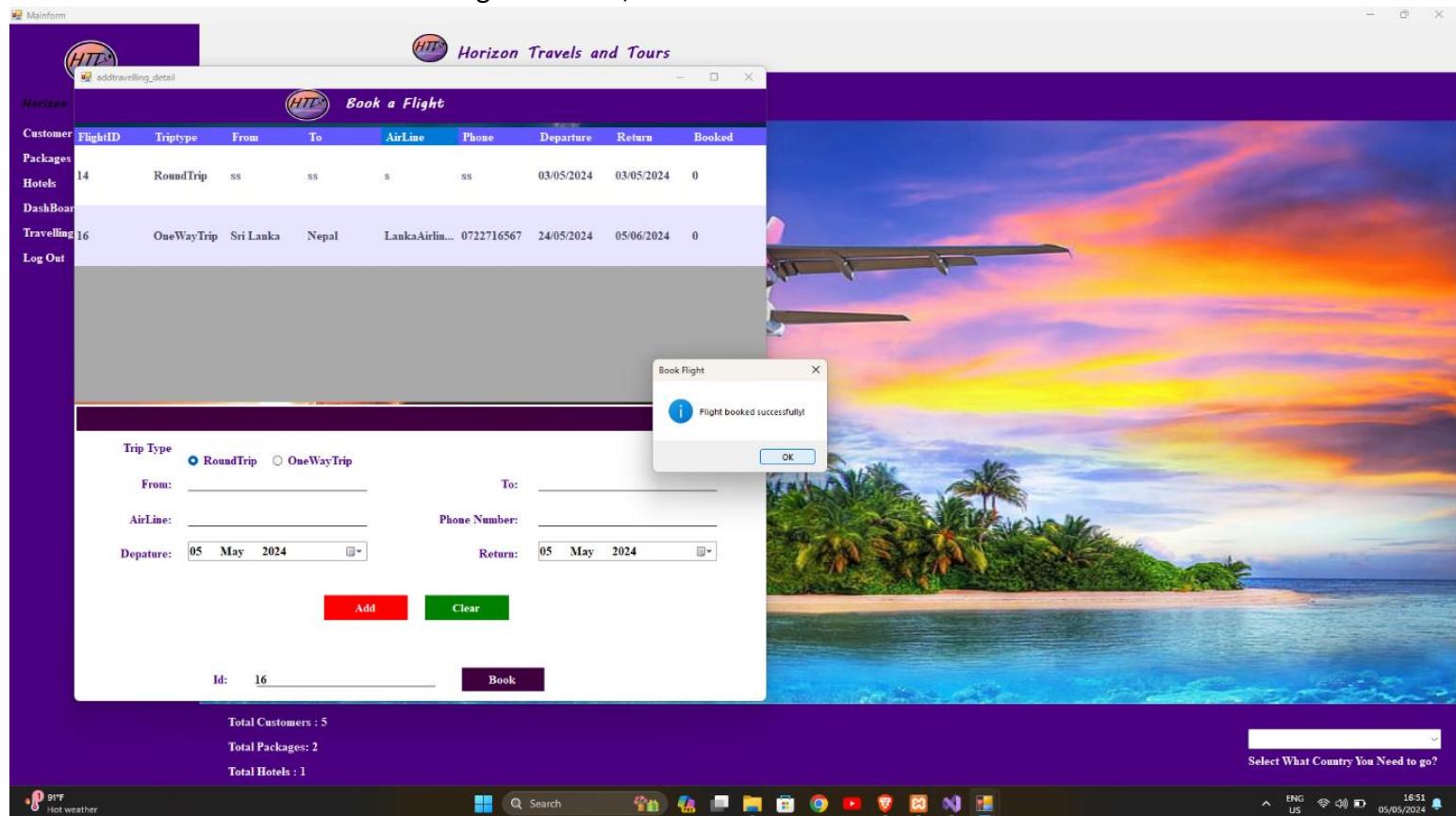


Figure 56: Booking a flight Successful Interface

- Logout,

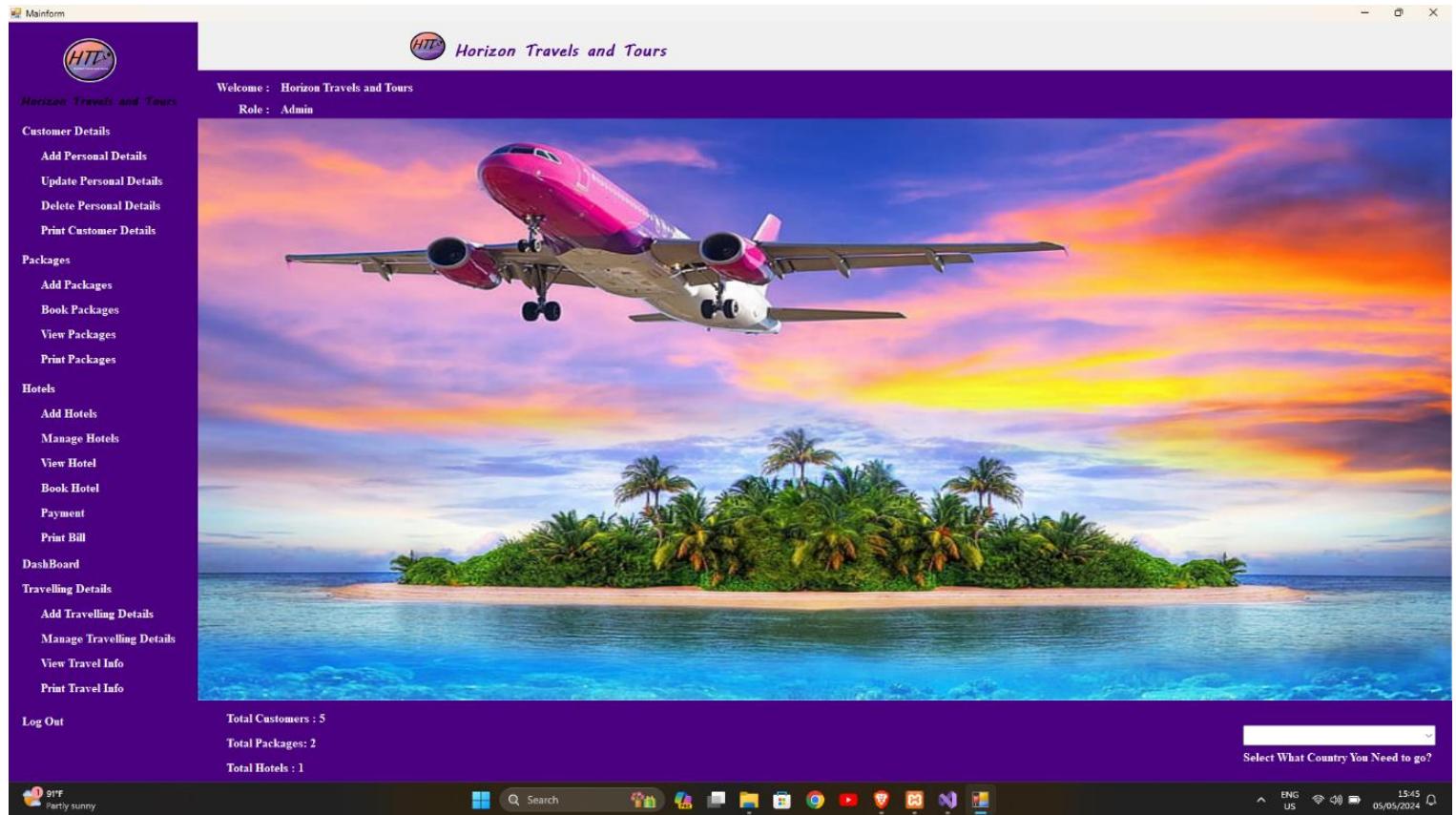


Figure 57: Logout Interface

- To logout from the system just clicking the Logout button at the bottom of the dashboard and user will be logout.

## **CHAPTER -04 CONCLUSION**

In conclusion, the development of a robust travels and tours management system is imperative for addressing the complexities of the travel industry. By integrating diverse resources, including market trends, technological innovations, and regulatory guidelines, a comprehensive framework can be established. Ensuring efficiency and customer satisfaction, adopting digital booking platforms, and considering cultural preferences are vital elements. Collaboration among travel agents, hospitality providers, and tourism authorities is essential for staying informed and responsive to evolving demands. Ultimately, a holistic and inclusive approach, coupled with ongoing research and innovation, will contribute to the effectiveness and adaptability of travels and tours management systems in enhancing overall travel experiences.

- This is how our Group M members done their parts of this System Analysis and Design Report,
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Flow Charts, Interfaces.
  - 2) Sandeepani YGH – 29780,  
Introduction, Background, Gantt chart, Use case Diagram, Activity Diagram, Sequence Diagram, Class Diagram.
  - 3) Thejan MN – 250558,  
Scope Of Study, Drawback of the existing system, Proposed System
  - 4) Hewage DD – 29981,  
ER Diagram, Database & Tables, Use case Diagram, Activity Diagram, Sequence Diagram, Class Diagram
  - 5) Mihisara RAA – 30504,  
System requirement, Problem Statement
  - 6) Thennakoon TMUKR – 30398  
Methodology, Major activities, and functions
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Flow Charts, Database & Tables
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