FPT ACADEMY INTERNATIONAL

FPT – APTECH COMPUTER EDUCATION

Karnel Travels

Supervisor: *LÊ THANH NHÂN*

Semester: *III*

Batch No: *T1.2208,M2*

Group No: *02*

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3.	*Nguyen Trung Quan*	*Student1414325*
4.	*Le Thanh Dat*	*Student1414243*

***Month**: 12 **Year**: 2023*

This is to certify that

Mr. **Hua Truong An**

Mr. **Le Ba Thanh**

Mr. **Nguyen Trung Quan**

Mr. **Le Thanh Dat**

Have successfully Designed & Developed

Karnel Travels

Submitted by:

Mr. LE THANH NHAN

Date Of Issue:

Authorized Signature:

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Acknowledge

As we understand that the Project is a step-by- step learning environment that closely simulates the class-room and Lab based learning environment into actual implementation. It is a project implementation at your fingertips!! An electronic, live juncture on the machine that allows you.

- ✓ Practice step by step i.e., laddered approach.
- ✓ Build a larger more robust application.
- ✓ Usage of certain utilities in applications designed by user.
- ✓ Single program to unified code leading to a complete application.
- ✓ Learn implementation of concepts in a phased manner.
- ✓ Enhance skills and add value.
- ✓ Work on real life projects.
- ✓ Give real life scenario, help to create applications more complicated and useful.
- ✓ Mentoring through email support.

We would like to send a great thank to our professor, Mr Le Thanh Nhan and others student for the adorable supports during the time in project.

Beside several mistakes we had made in the project, we hope to have more opportunities to widen our knowledge in web developing world. We also thank you so much for your information and the “demo” project from India APTECH to help us get more reality experience in this project. Since we have gained more experience from this project, we will not stop learning anything as much as we can to be more successful in the future.

Best Regards,

Group 02.

Synopsis

The Objective of this program is to give a sample project to work on real life projects. These applications help you build a larger more robust application.

The objective is not to teach you the software's but to provide you with a real life scenario and help you create basic applications using the tools.

You can revise the topics before you start with the project.

These programs should be done in the Lab sessions with assistance of the faculty if required.

It is very essential that a student has a clear understanding of the subject.

Kindly get back to eProjects Team in case of any doubts regarding the application or its objectives.

Review 01

Problem Definition

Karnel Travels is a Tours and Travels Company which provides the various transportation facilities between the cities like tourist spots, transportation between different cities in the country, also provides accommodations in hotels, etc. Also they provide the online facility where the customers can visit online, view and order for the tours and as well the transportation.

Now they want to provide a website, through which they wan to attract the customers. They want to reach out to the customers by providing various information services like the list of tourist spot, information about the various hotels and restaurants, etc. They want the website to be a URL Specific. So they approached us to build a website for them.

The client wants us to incorporate the following features in the website.

1. The URL should be http://www.Karneltravelguide.com
2. The website should contain a menu through which the different topics can be fetched out with an ease.
3. The menu should contain the following:
    - Home Page
    - About Us
    - Search page
    - Information Page
        1. Tourist Spots available with in the country.
        2. Travel Information
        3. Hotel Information
        4. Restaurant Information.
        5. Resorts Information

- Contact Us

4. The About Us Page should include the details about the company, also it should include the details about the facilities that it will provide like transportation, packages, transportation and accommodation facility to tourist locations, etc.

5. The Search page should implement the search for the various tourist spots like beaches, monuments, etc. and also it should include the search for the Hotels, Restaurants and resorts based on the location, price, quality, quantity and availability. Also on this page there should be a link for the advanced search page.

6. The information page should contain 5 links as mentioned above and it should display the information about the new hotels restaurants and the resorts information also if there is any package or discounts that the company is providing can also be displayed.

7. Tourist spots should include the various tourist locations available with in the country.

8. Travel information should include the various transportation facilities available with in the country.

9. Similarly the various hotels, restaurants and resorts that are available with in the country should be displayed for the Hotels, Restaurants, and resorts information.

10. The contact us Page is the page where the customer can contact the company for placing an order and this page should also include the feedback, which will collect the feedback from the various users of the website.

User:

✓ Can register as a member and manage personal account.

✓ Can view and book a tour, hotels, restaurants, and resorts.

✓ Can view their old tour, hotels, restaurant, and resorts.

✓ Can view the list of tour, hotels, restaurant, and resort which they can book.

✓ Can leave comment on the tour, hotels, restaurants, and resorts that they booked.

Administrator:

- ✓ Can add / edit / delete tours, hotels, restaurants, and resorts.
- ✓ Can view customer's information or deactivate an account.
- ✓ Can view all orders and approve orders.
- ✓ Can view report statistics.

Customer Requirements Specifications

Admin :

Input:

- Administrator login data.
- Tours, hotels, restaurants, and resorts information to add / edit / delete.
- Member data to search / delete.
- Order data to search / approve.

Process:

- Add / edit / delete tours, hotels, restaurants, resorts.
- Update booking status.

Output:

- Notification to add / edit / delete tours, hotels, restaurants, and resorts success / failure.
- View information of all members.
- View all booking.

User :

1. Home Page

Inputs:

- User open the website http://www.Karneltravelguide.com

Process:

- Process a visually appealing home page with a navigation menu.

Outputs:

- Home page with the navigation menu visible.

2. About Us Page

Inputs:

- User clicks on the "About Us" link in the menu.

Process:

- Create an information page about the company, its history, and the services it provides (transportation, packages, accommodation facilities).

Outputs:

- About Us page containing relevant information.

3. Search Page

Inputs:

- User clicks on the "Search Page" link in the menu.

Process:

- Implement search functionality for tourist spots, hotels, restaurants, and resorts based on location, price, quality, quantity, and availability.

- Provide a link to an advanced search page.

Ouputs:

- Search results for tourist spots, hotels, restaurants, and resorts.
- Link to an advanced search page.

4. Information Page

Inputs:

- User clicks on the "Information Page" link in the menu.

Process:

- Create information about tourist spots, travel facilities, hotels, restaurants, and resorts.

Outputs:

- Information about tourist spots, travel facilities, hotels, restaurants, resorts, and promotional offers.

5. Contact Us Page

Inputs:

- User clicks on the "Contact Us" link in the menu.

Process:

- Create a contact form for placing orders.
- Provide a section for user feedback.

Outputs:

- Contact form for order placement.
- Feedback collection form.

HARDWARE/ SOFTWARE REQUIREMENTS

Hardware

- A minimum computer system that will help you access all the tools in the courses is a Pentium 166 or better
- 64 Megabytes of RAM or better
- Windows 98 (or higher if possible)
- Java Virtual Machine

Software

Either or combination of the following Software's are to be used:

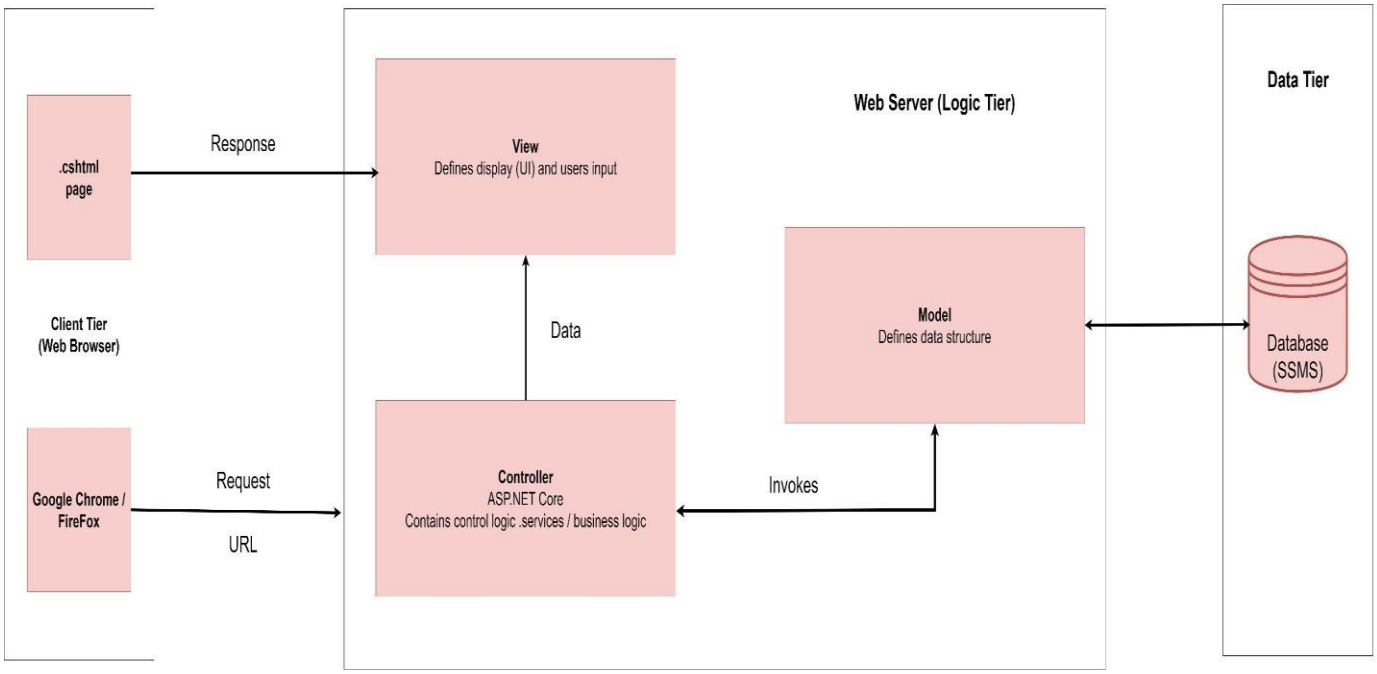
- Notepad/HTML editor/Java editor
- Dream weaver/JavaScript
- j2sdk1.4.1_02 (or later) / .Net / J2EE
- JSP / Servlets
- EJB / Struts
- JDBC
- SQL Server 2000 (or later) / Oracle 9i / MS Access
- JDBC Driver

Task Sheet Review 1

Members Group		**Date Prepareation Of Activity Plan**			
No	**Name**	**Description Task**	**Start Date**	**End Date**	**Status**
1	Hứa Trường An	Customer Requirement Specifications	**Dec 13,2023**	**Dec 14,2023**	Completed
2	Lê Bá Thành	Acknowledge	**Dec 13,2023**	**Dec 14,2023**	Completed
3	Nguyễn Trung Quân	Problem Definition	**Dec 13,2023**	**Dec 14,2023**	Completed
4	Lê Thành Đạt	Customer Requirement Specifications	**Dec 13,2023**	**Dec 14,2023**	Completed

Review 02

Architecture and Design of the Project



Data Flow Diagram

1. Definition of Data Flow Diagram (DFD):

A Data Flow Diagram (DFD) is a graphical representation that depicts the flow of data within a system. It serves as a critical tool in systems analysis, helping to identify and illustrate the movement of information between different components of a system. DFDs are instrumental in understanding, documenting, and communicating the processes and data involved in system functionalities.

2. Four Main Activities Supported by DFD:

a. Analysis:

In the realm of system development, a DFD is a vital tool for determining user requirements. It helps in analysing the processes and identifying the flow of information, which is crucial for understanding the needs and constraints of the system. By visualizing how data moves through the system, analysts can pinpoint areas for improvement and optimization.

b. Design:

DFDs are extensively used in the design phase of system development. They provide a clear and concise way to map out and illustrate the proposed solutions to the requirements identified in the analysis phase. By offering a visual representation of data flows and how they interact with various system components, DFDs assist designers in conceptualizing and creating efficient and effective system architectures.

c. Communication:

One of the key strengths of DFDs lies in their simplicity and ease of understanding. They act as a common language between analysts, designers, and users, facilitating clear and effective communication regarding system processes and data flows. This transparency is essential for ensuring that all stakeholders have a mutual understanding of the system's design and functionality.

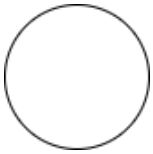
d. Documentation:

DFDs serve as an essential part of system documentation, providing a detailed depiction of system requirements and design. They offer an overview of the key functional components of a system without delving into the intricate details of each component. For more detailed information, supplementary tools such as database dictionaries and process specifications are used in conjunction with DFDs to provide a comprehensive understanding of the information exchanges and operational procedures within the system.

e. External Entities in DFD:

External entities in a Data Flow Diagram represent outside factors that interact with the system. These can be individuals, groups, or organizations that either supply information to the system or receive output from it. External entities are crucial in understanding the system's boundaries and the interactions it has with the external environment. They are typically depicted as rectangles or ovals in a DFD and are the sources and destinations of data flows, highlighting the system's reliance on and relationship with external actors.

f. The Process in DFD:



Processes in a DFD symbolize the operations or activities that occur within the system. These are depicted as circles or rounded rectangles and are where data is processed or transformed. Each process in a DFD has a unique number or identifier and a descriptive title. They represent the logical functions or steps in which the incoming data is handled, manipulated, or utilized to produce a specific output. Processes are central to understanding the internal workings of the system and how data is used to achieve the desired outcomes.

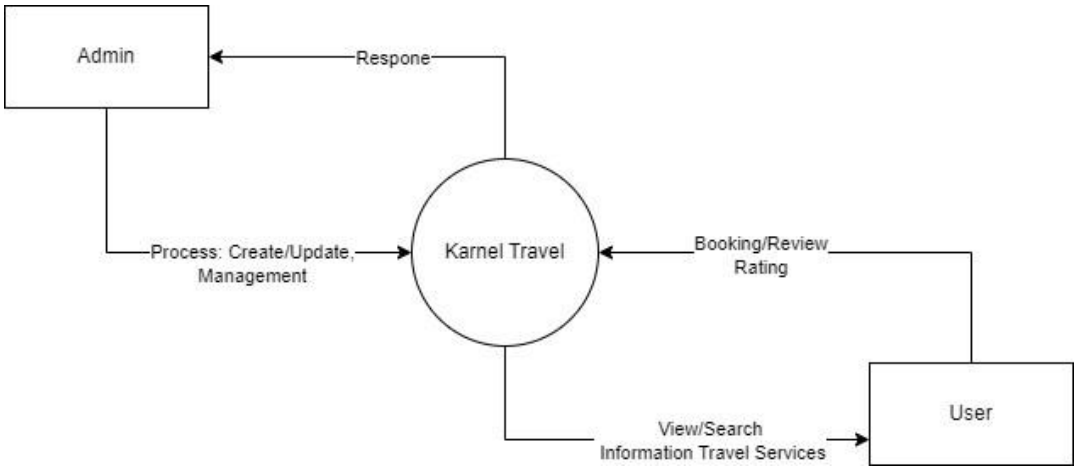
g. Data Flow in DFD:

Data flow in a DFD illustrates the route that data takes from one part of the system to another. Represented by arrows, these flows show the movement of data between external entities, processes, and data stores. The direction of the arrow indicates the direction of the data movement. Data flows are labeled to describe the type of data or information that is being transferred. Understanding data flows is essential for identifying how information is communicated and shared within the system, ensuring the integrity and efficiency of data handling.

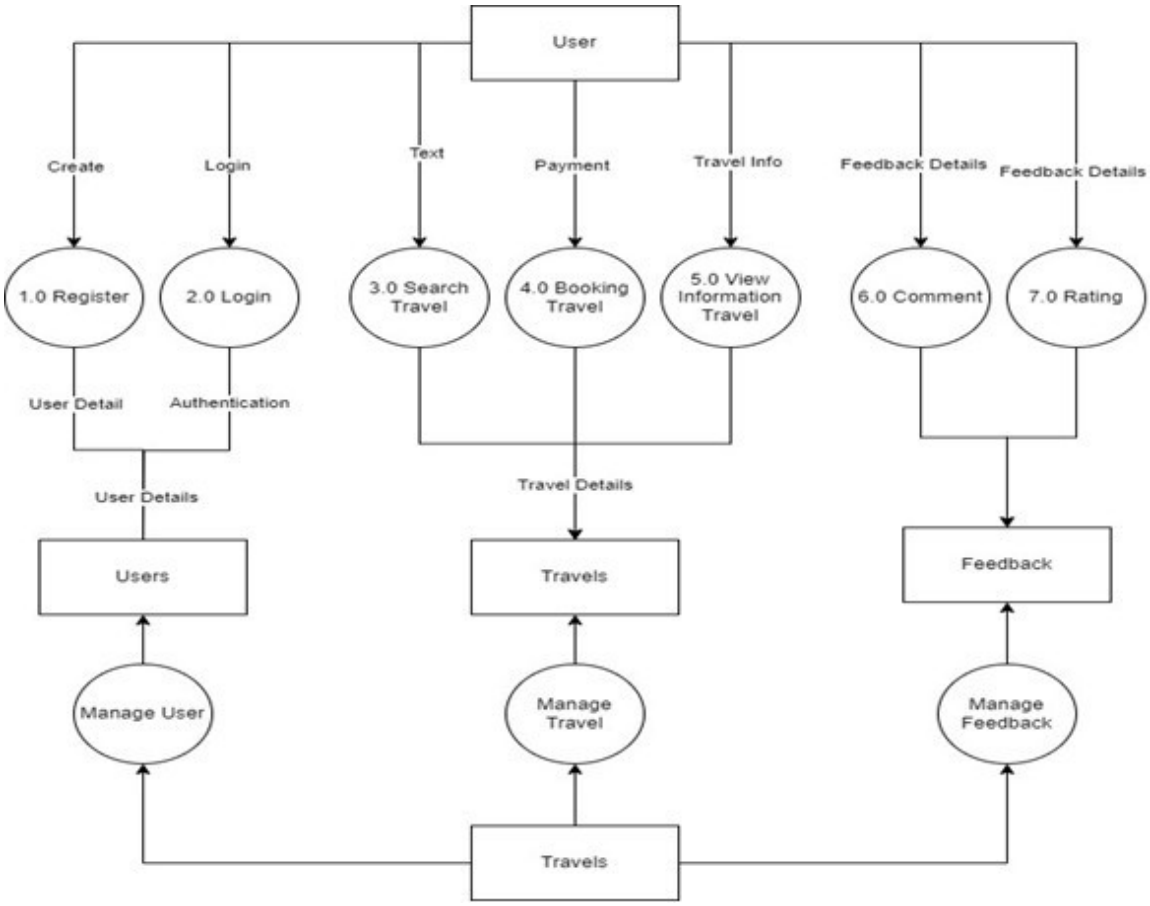
h. Data Store in DFD:

A Data Store in a DFD represents a storage area where data is held for future use. It is depicted as two parallel lines with a descriptive label identifying the store. Data Stores are used to model collections of data that are at rest, such as databases or repositories. They are connected to processes through data flows, signifying the input and output of data to and from these storage areas. Data Stores are integral to understanding how and where data is retained within the system, providing insights into the system's data management and retention strategies.

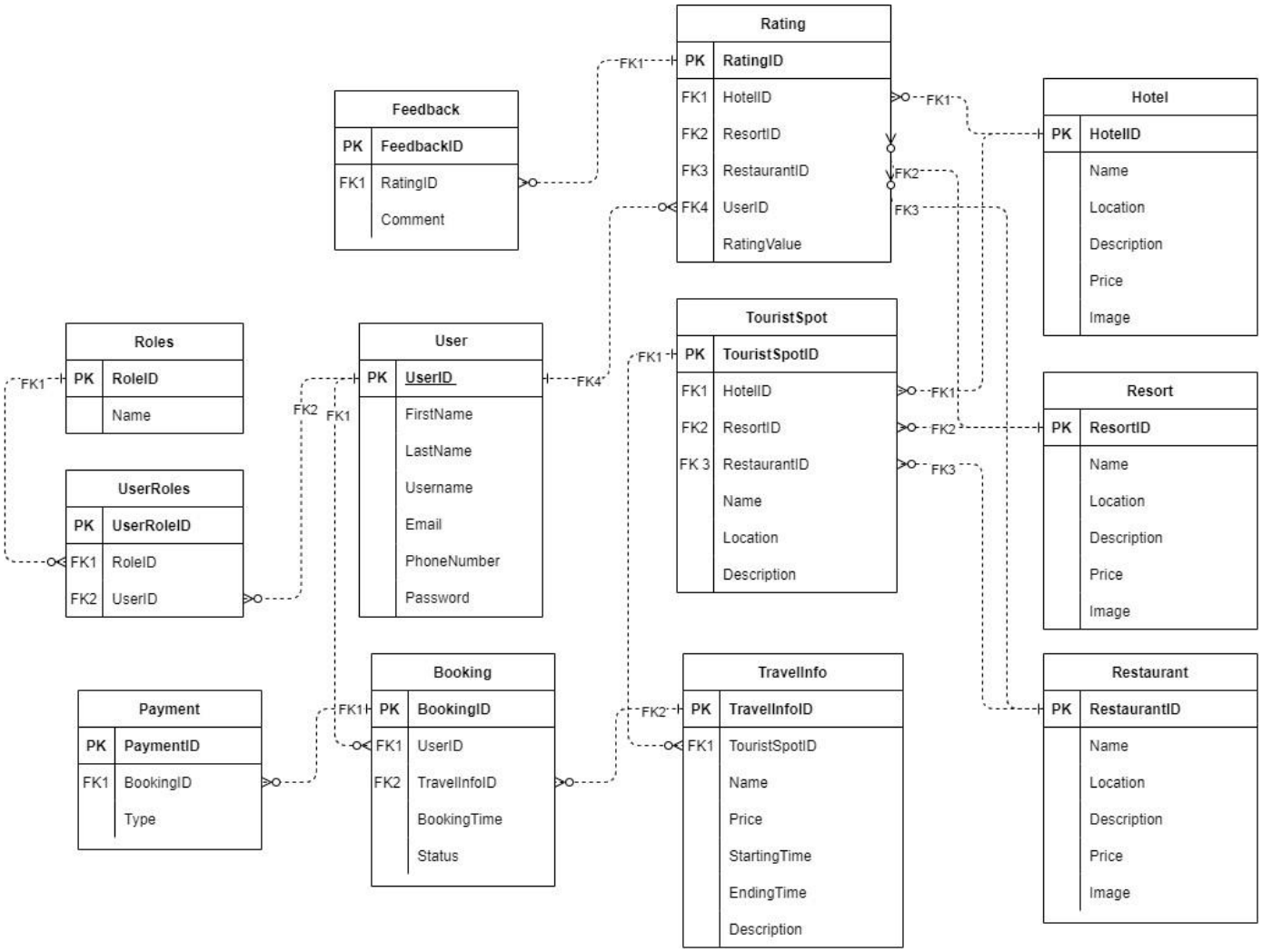
3. Level 0 DFD (Data Flow Diagram)



4. Level 1 DFD (Data Flow Diagram)



Entity Relationship (ER) Diagram



	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 02	LE THANH NHAN
Signature		
Date		

A. Table Design

1. User Management

UserRoles		
PK	**UserRoleID**	**INT IDENTITY(1,1)**
FK1	RoleID	INT
FK2	UserID	INT

Roles		
PK	**RoleID**	**INT IDENTITY(1,1)**
	Name	VARCHAR(50) NOT NULL

User		
PK	**UserID**	**INT IDENTITY(1,1)**
	FirstName	VARCHAR(50)
	LastName	VARCHAR(50)
	Username	VARCHAR(50)
	Email	VARCHAR(50)
	PhoneNumber	INT
	Password	VARCHAR(50)

2. Booking Management

Payment		
PK	**PaymentID**	**INT IDENTITY(1,1)**
FK1	BookingID	INT
	Type	VARCHAR(50)

Booking		
PK	**BookingID**	**INT IDENTITY(1,1)**
FK1	UserID	INT
FK2	TravelInfoID	INT
	BookingTime	DATETIME
	Status	VARCHAR(50)

3. Feedback Management

Rating		
PK	**RatingID**	**INT IDENTITY(1,1)**
FK1	HotelID	INT
FK2	ResortID	INT
FK3	RestaurantID	INT
FK4	UserID	INT
	RatingValue	FLOAT

Feedback		
PK	**FeedbackID**	**INT IDENTITY(1,1)**
FK1	RatingID	INT
	Comment	VARCHAR(255)

4. Travel Management

TouristSpot		
PK	**TouristSpotID**	**INT IDENTITY(1,1)**
FK1	HotelID	INT
FK2	ResortID	INT
FK 3	RestaurantID	INT
	Name	VARCHAR(50)
	Location	VARCHAR(50)
	Description	VARCHAR(50)

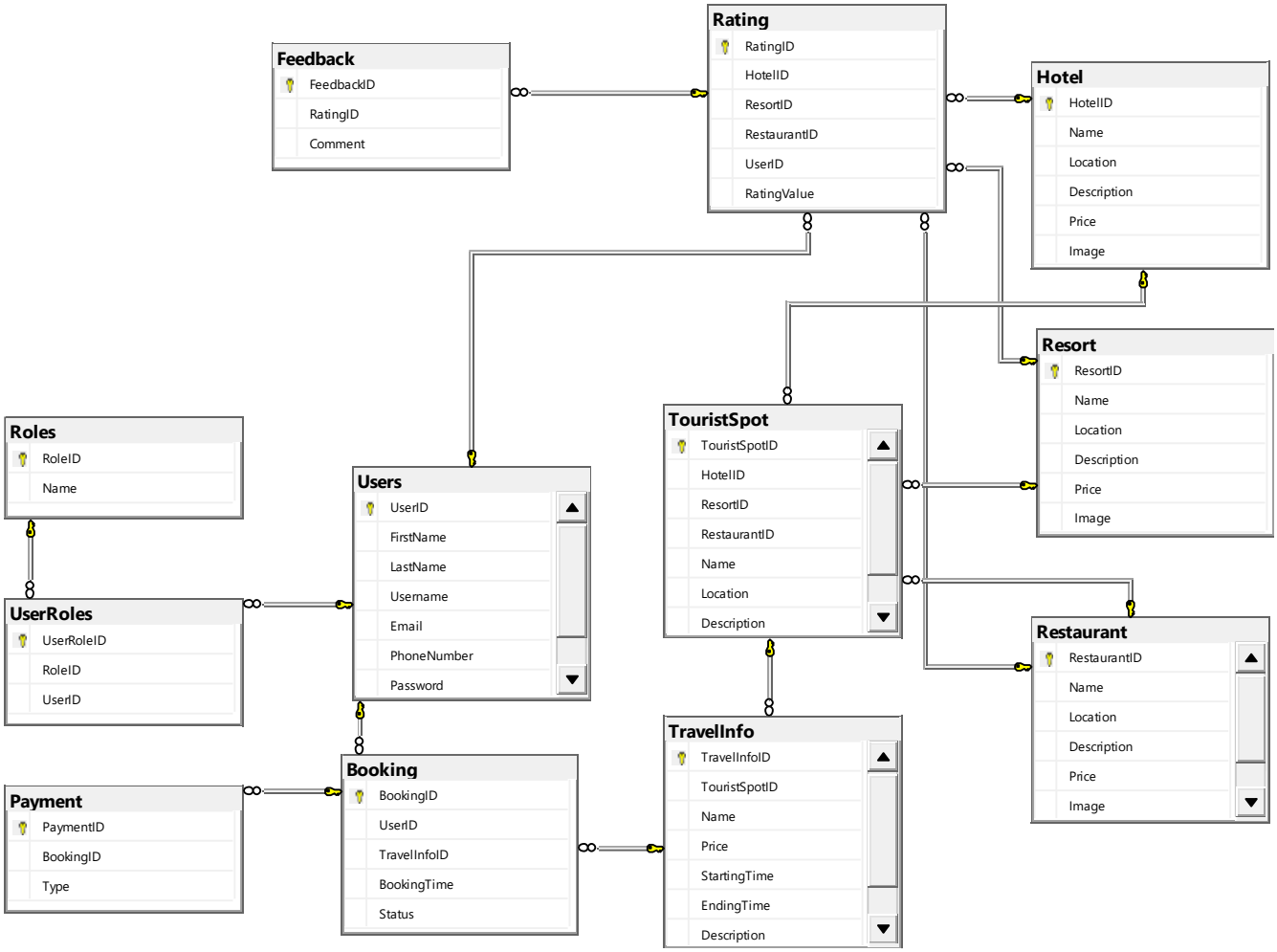
TravelInfo		
PK	**TravelInfoID**	**INT IDENTITY(1,1)**
FK1	TouristSpotID	INT
	Name	VARCHAR(50)
	Price	FLOAT
	StartingTime	DATETIME
	EndingTime	DATETIME
	Description	<span style="color: rgb(0, (

Hotel		
PK	**HotelID**	**INT IDENTITY(1,1)**
	Name	VARCHAR(255)
	Location	VARCHAR(255)
	Description	VARCHAR(255)
	Price	FLOAT
	Image	VARCHAR(255)

Resort		
PK	ResortID	INT IDENTITY(1,1)
	Name	VARCHAR(255)
	Location	VARCHAR(255)
	Description	VARCHAR(255)
	Price	FLOAT
	Image	VARCHAR(255)

Restaurant		
PK	RestaurantID	INT IDENTITY(1,1)
	Name	VARCHAR(255)
	Location	VARCHAR(255)
	Description	VARCHAR(255)
	Price	FLOAT
	Image	VARCHAR(255)

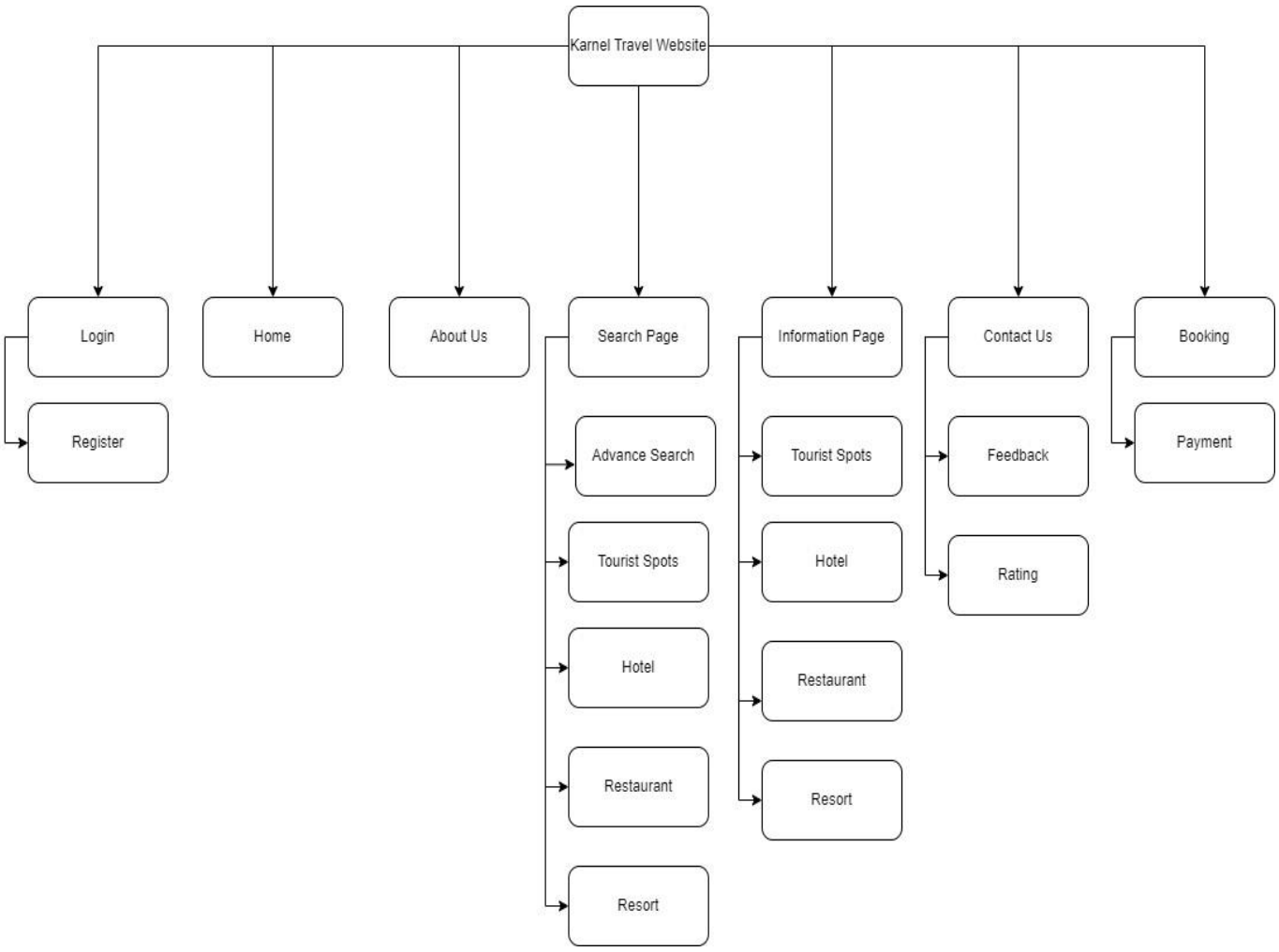
B. Relationship Diagram



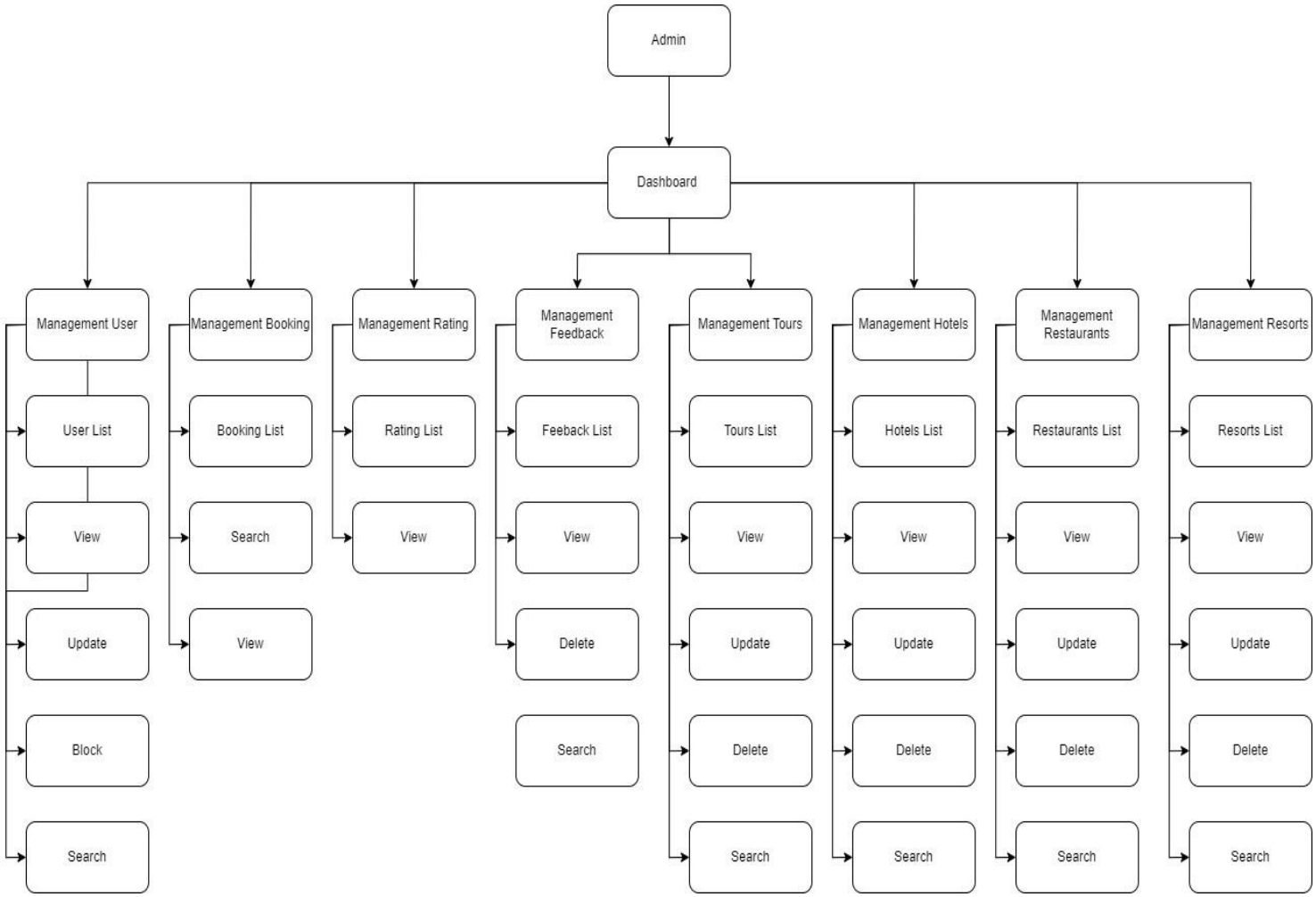
	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 02	LE THANH NHAN
Signature		
Date		

SiteMap

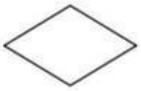
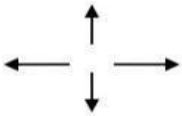
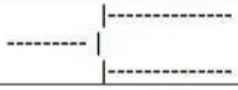
1. User :



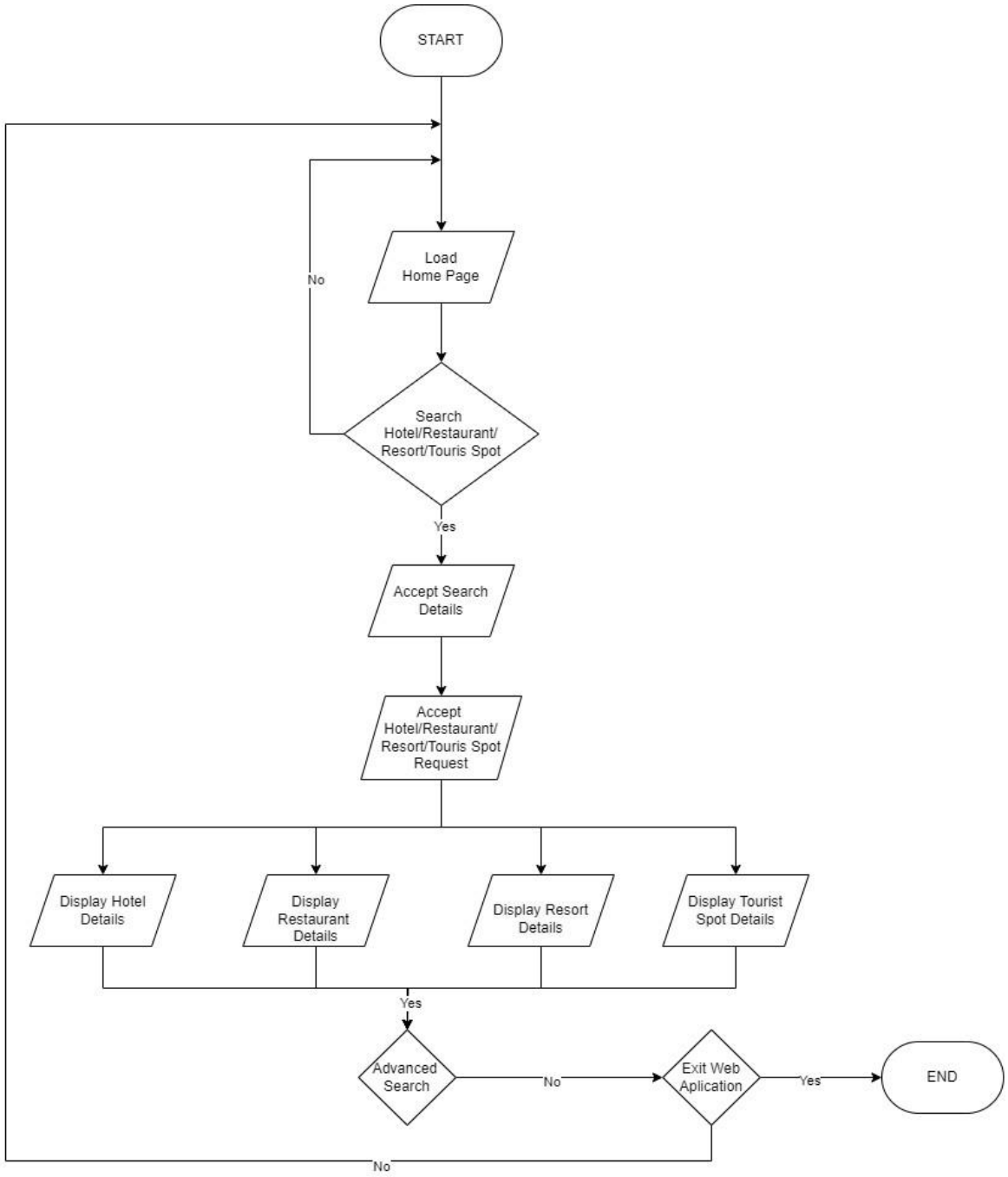
2. Admin:


Admin
Dashboard
Management User
User List
View
Update
Block
Search
Management Booking
Booking List
Search
View
Management Rating
Rating List
View
Management Feedback
Feeback List
View
Delete
Search
Management Tours
Tours List
View
Update
Delete
Search
Management Hotels
Hotels List
View
Update
Delete
Search
Management Restaurants
Restaurants List
View
Update
Delete
Search
Management Resorts
Resorts List
View
Update
Delete
Search

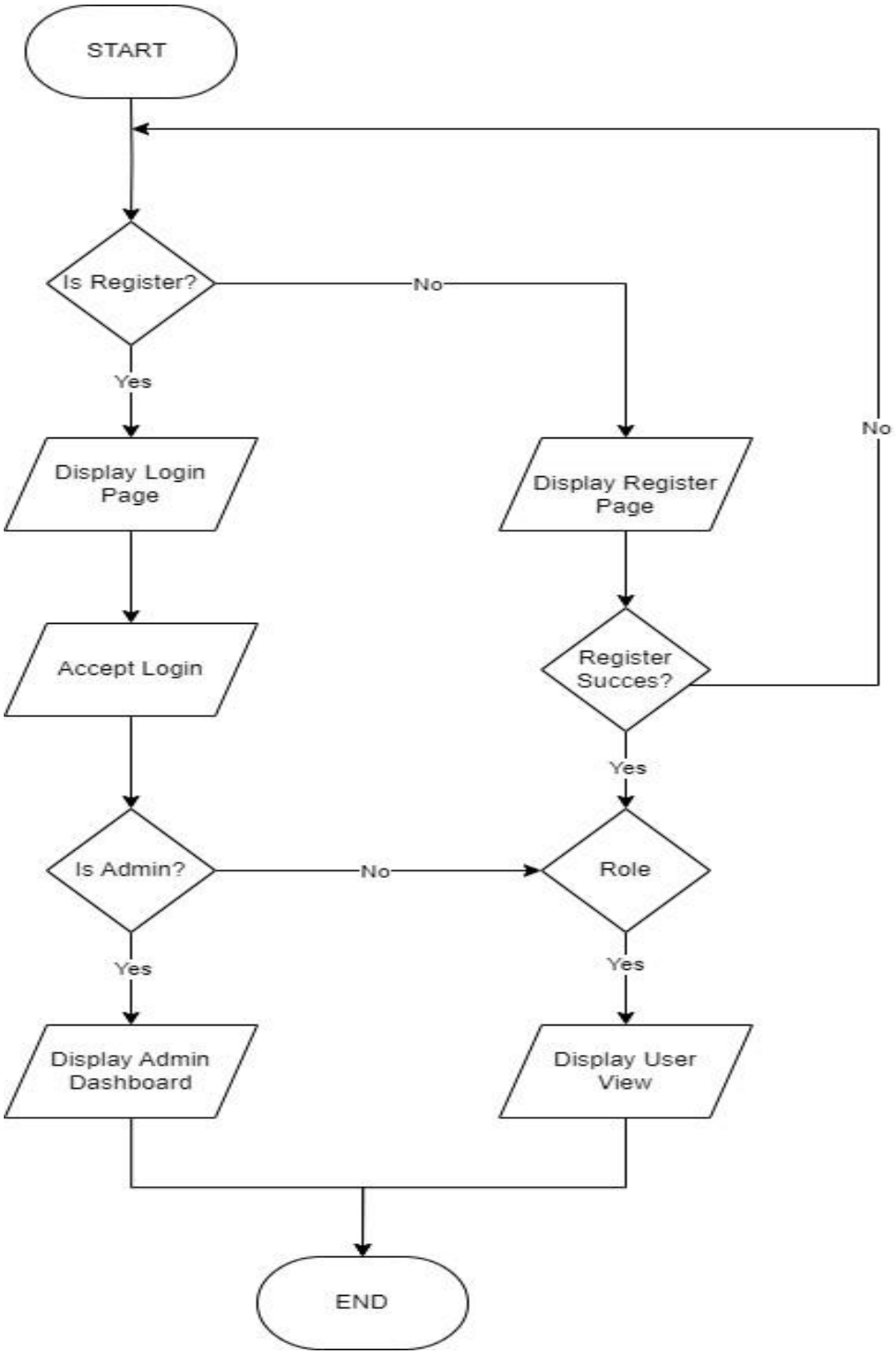
Algorithm

Symbol Name	Symbol	function
Oval		Used to represent start and end of flowchart
Parallelogram		Used for input and output operation
Rectangle		Processing: Used for arithmetic operations and data-manipulations
Diamond		Decision making. Used to represent the operation in which there are two/three alternatives, true and false etc
Arrows		Flow line Used to indicate the flow of logic by connecting symbols
Circle		Page Connector
		Off Page Connector
		Predefined Process /Function Used to represent a group of statements performing one processing task.
		Preprocessor
		Comments

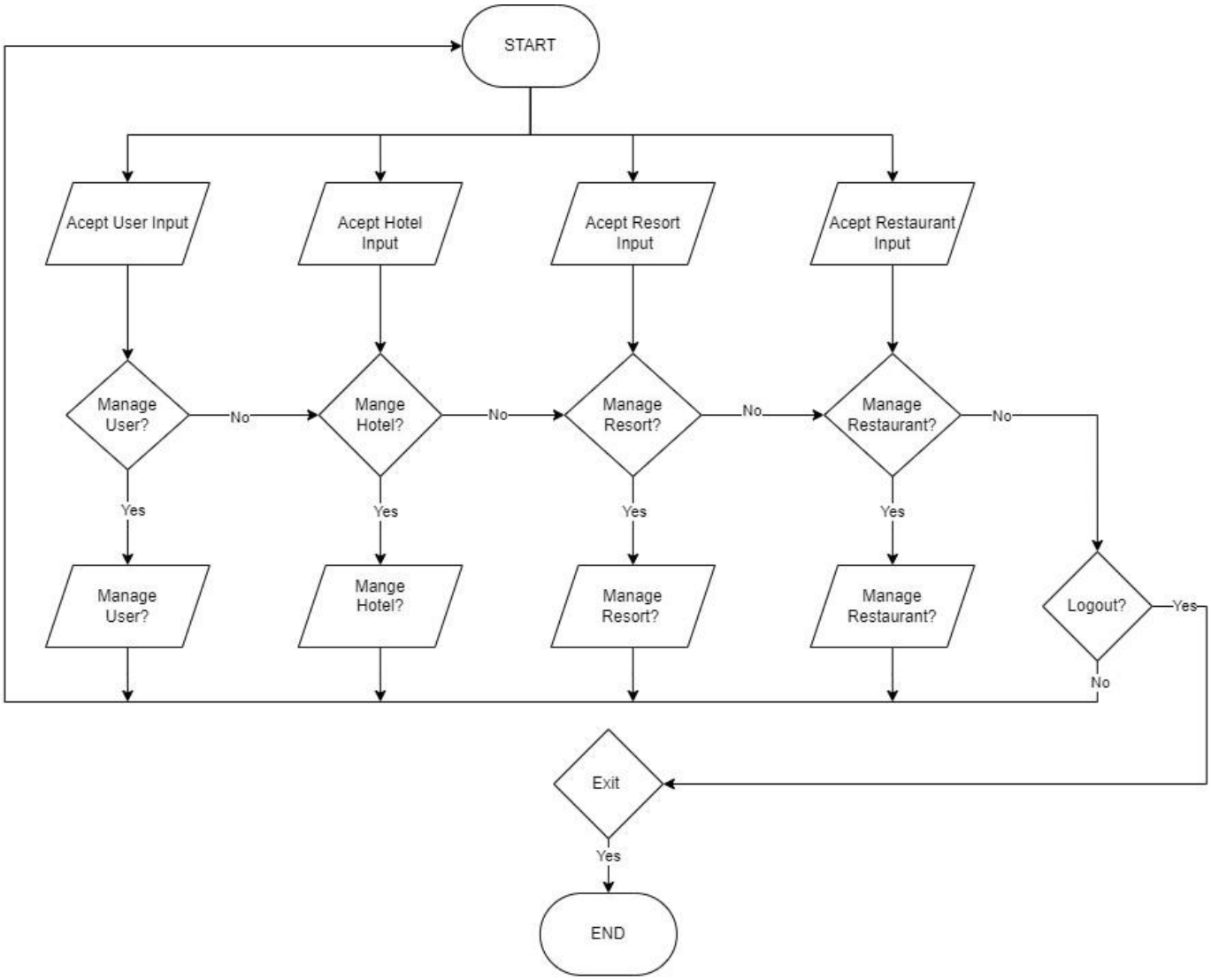
1. Displays the flowchart for the Home Page.



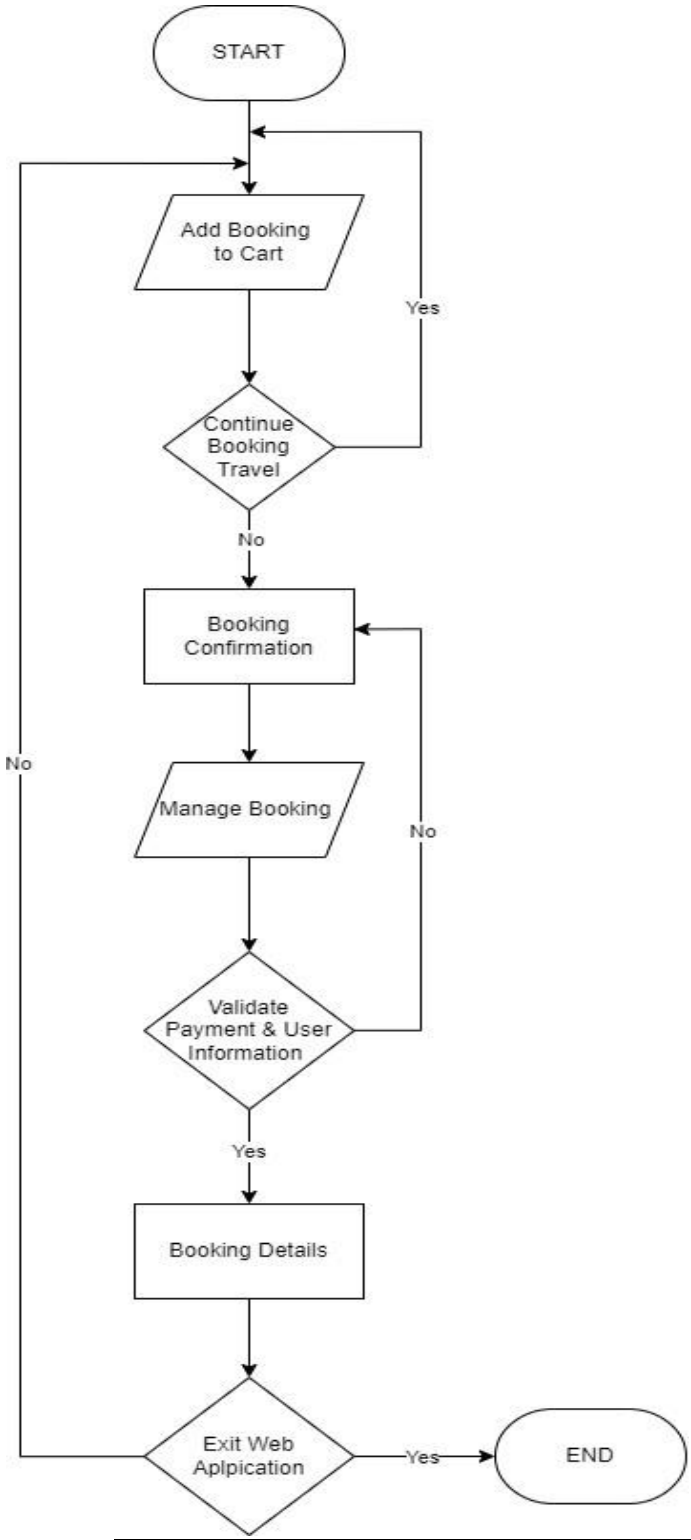
2. Display the flowchart for registration activity.



3. Displays the flowchart for Admin.



4. Displays the flowchartfor Booking Travel.



Task Sheet Review 2

Members Group		**Date Prepareation Of Activity Plan**			
No	**Name**	**Description Task**	**Start Date**	**End Date**	**Status**
1	Hứa Trường An	Architecture & Design of Project Algorithms – Data Flowchart	**Dec 14,2023**	**Dec 16,2023**	Completed
2	Lê Bá Thành	Data Flow Diagram Entity-Relationship Diagram	**Dec 14,2023**	**Dec 16,2023**	Completed
3	Nguyễn Trung Quân	Database Design Diagram Database Structure	**Dec 14,2023**	**Dec 16,2023**	Completed
4	Lê Thành Đạt	Site Map Task sheet review	**Dec 14,2023**	**Dec 16,2023**	Completed

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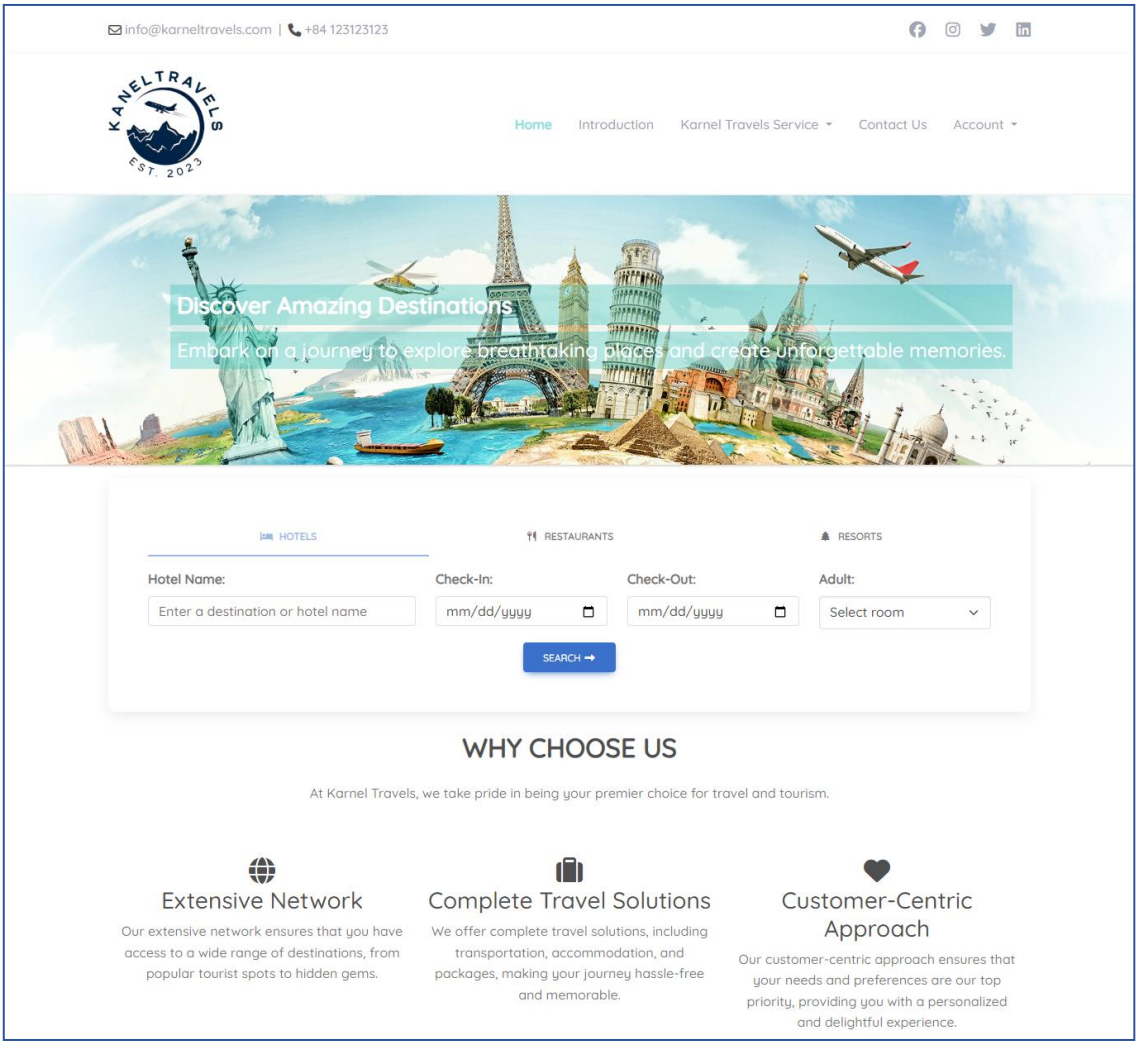
Review 03

Screen shots

A.USER

1.Home Page

a. Header

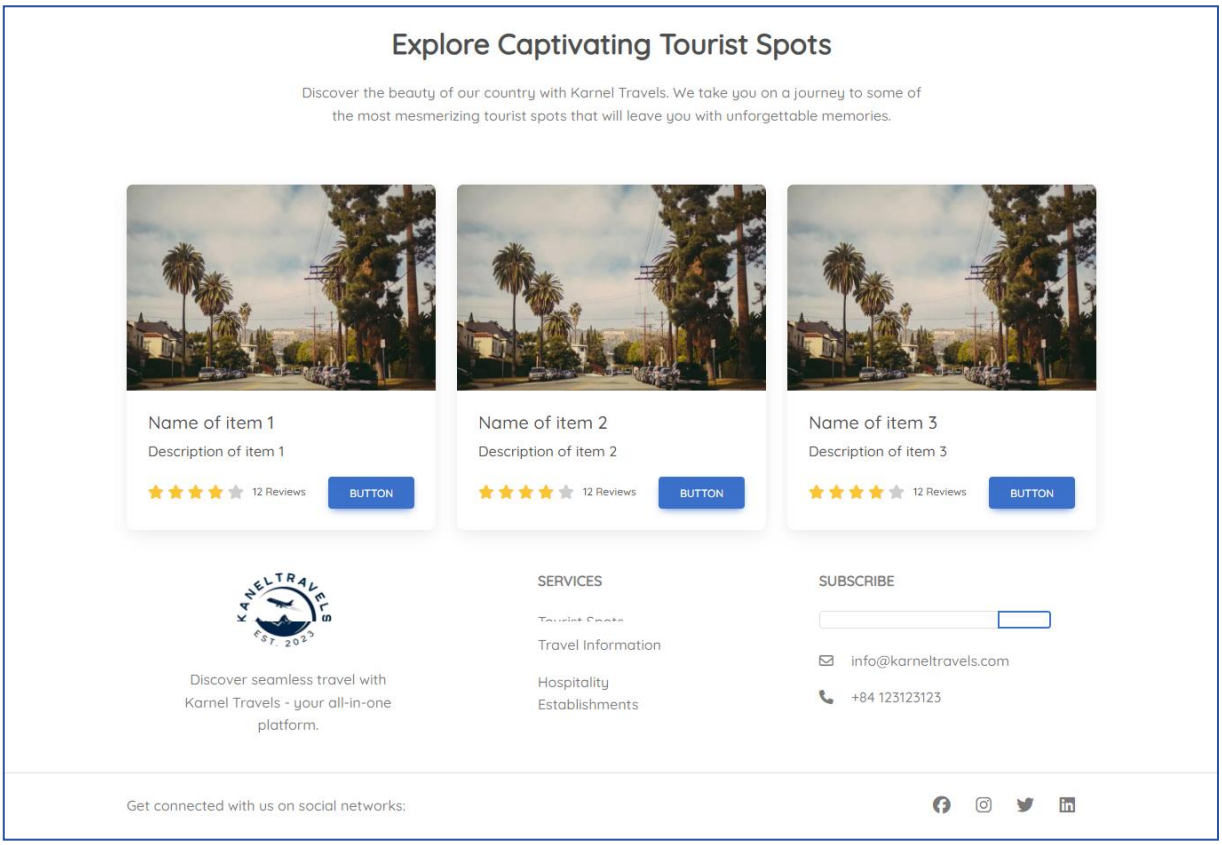


Description: This is Header of the Home page, the initial interface when accessing the website

From: Main URL of the website karneltravels.com

To: Introduction, Karnel Travel Service, Contact Us, Account, Search.

b. Footer

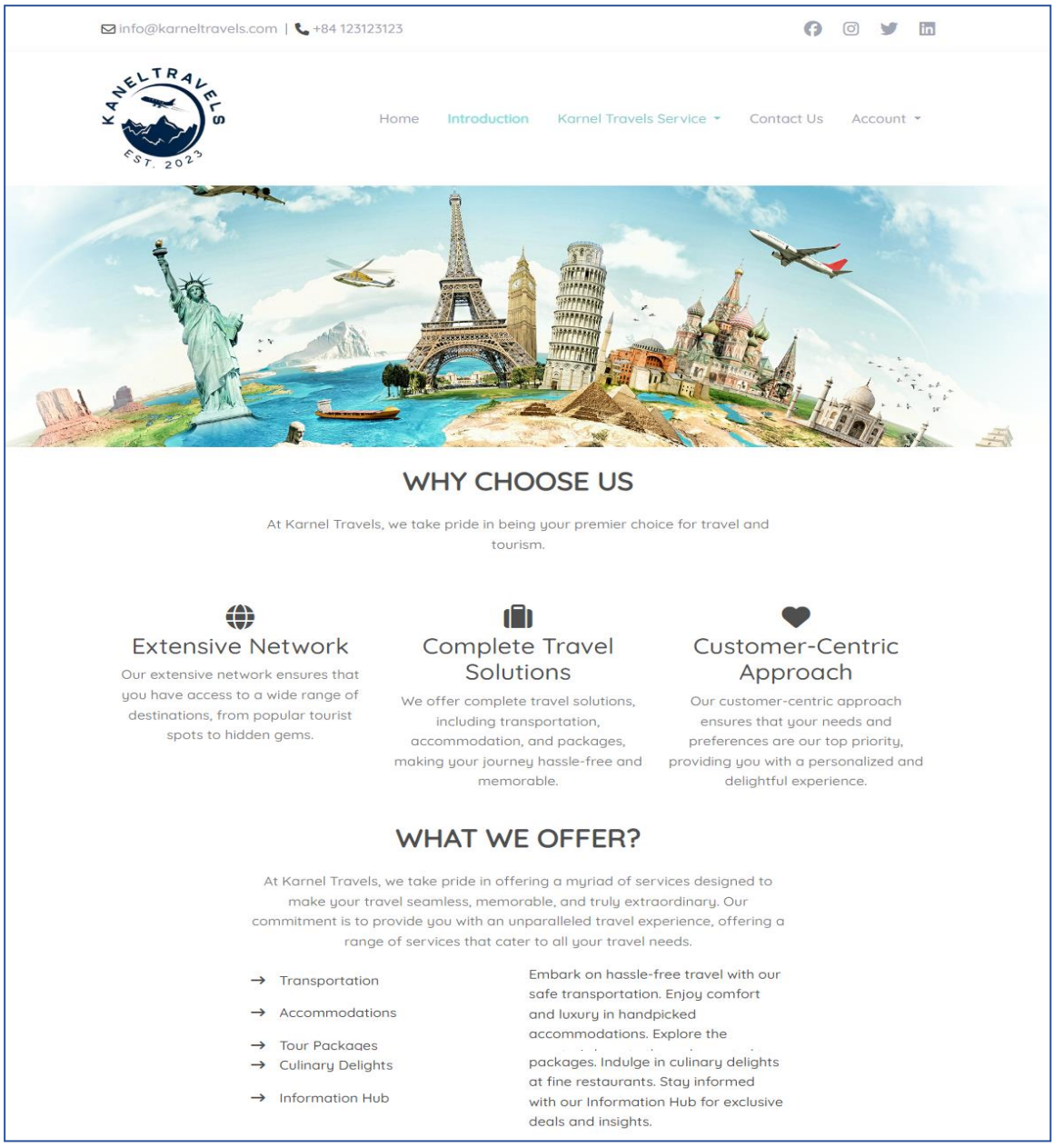


Description: This is Footer of the Home page, the initial interface when accessing the website.

From: Main URL of the website karneltravels.com

To: Feedback, Tourist Spot, Contact Us.

2. Introduction

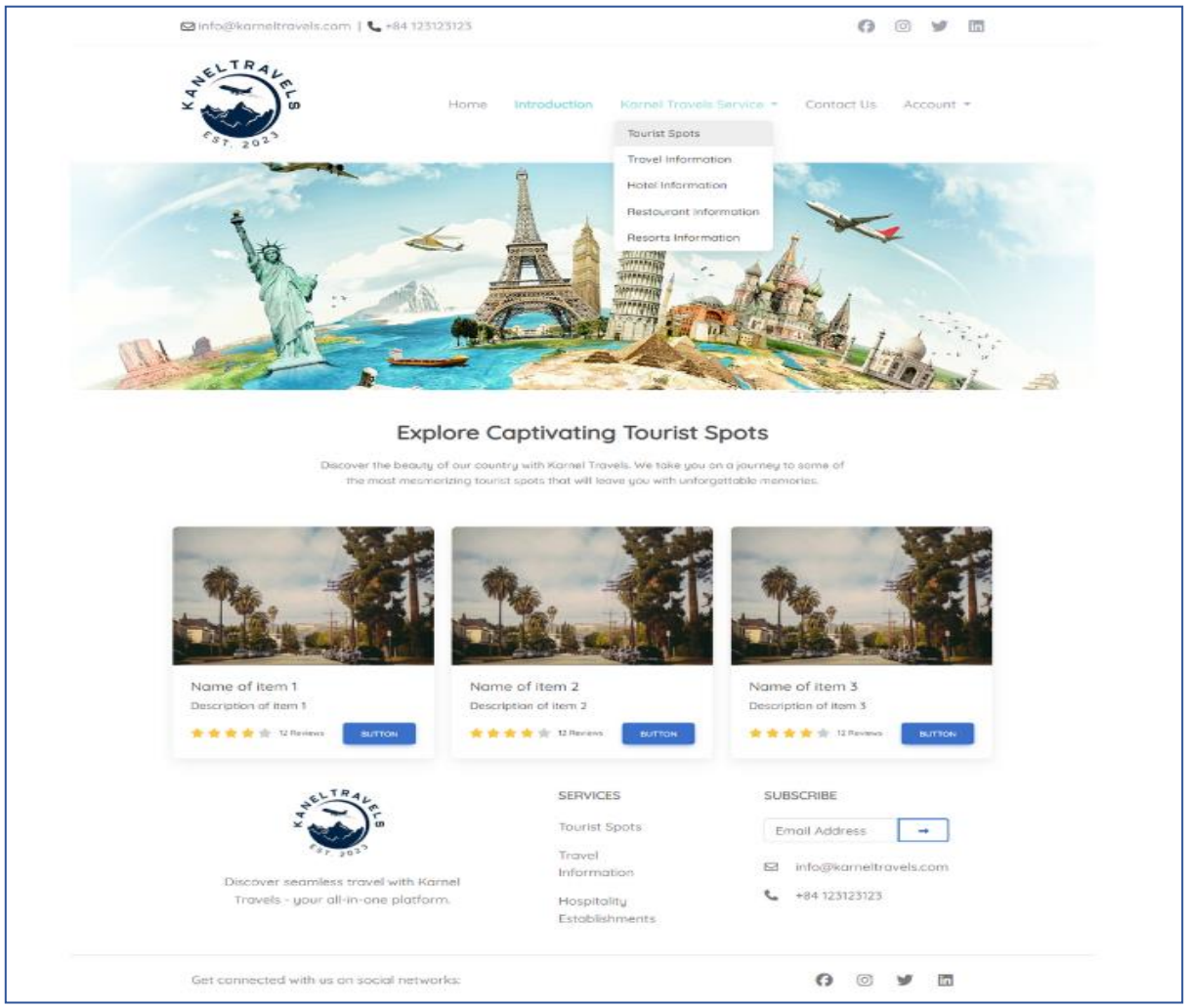


Description: This is an introduction page, to give an overview of Karne Travel.
From: Introduction on the menu taskbar.

To: Home, Karnel Travel Service, Contact Us, Account.

3. Karnel Travels Service

a. Tourist Spot

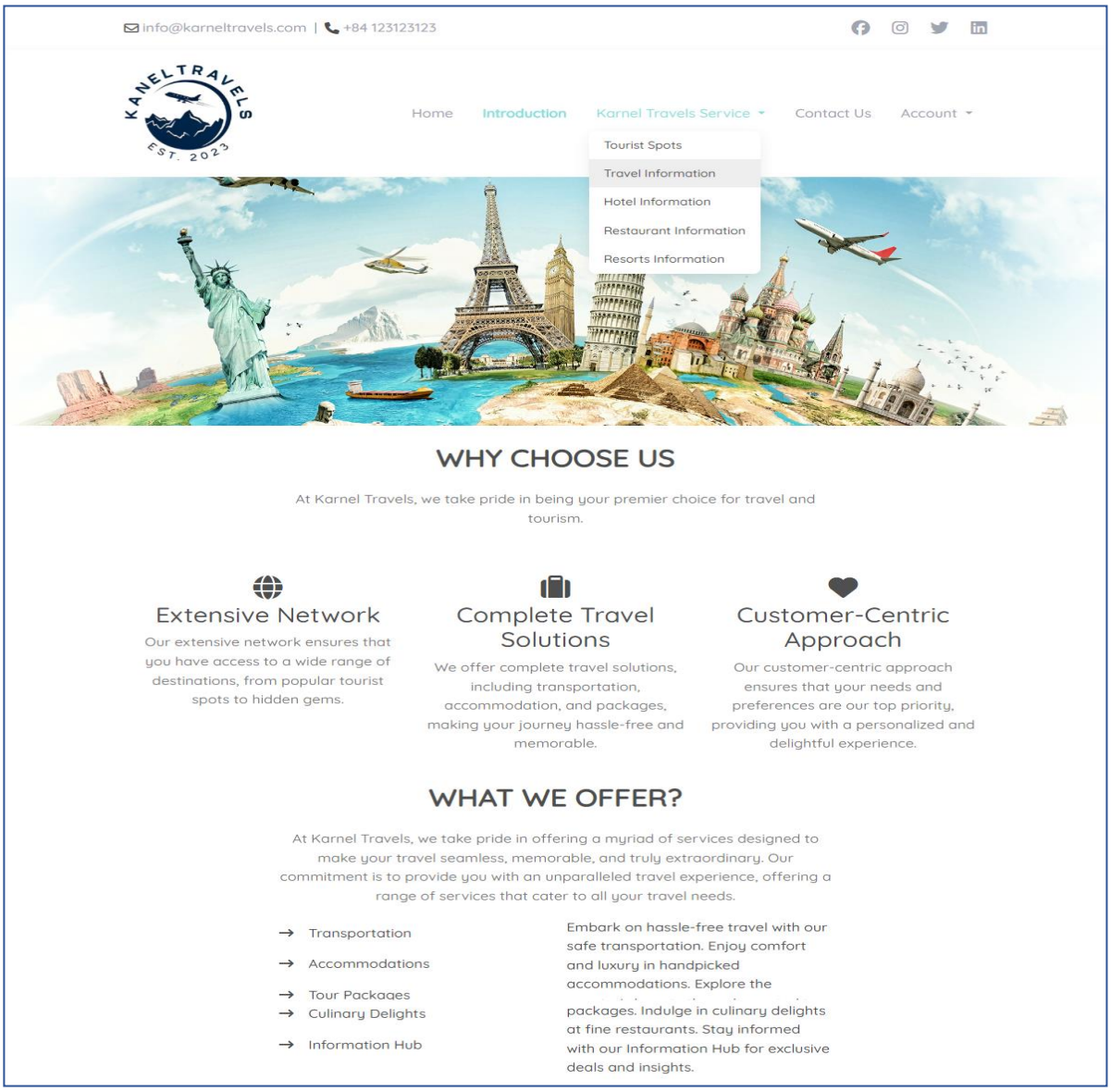


Description: This is an Tourist Spot page. Leads to detailed information pages about tourist (hotels, restaurants, and resorts).

From: Karnel Travel Service/ Tourist Spot on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

b. Travel Information

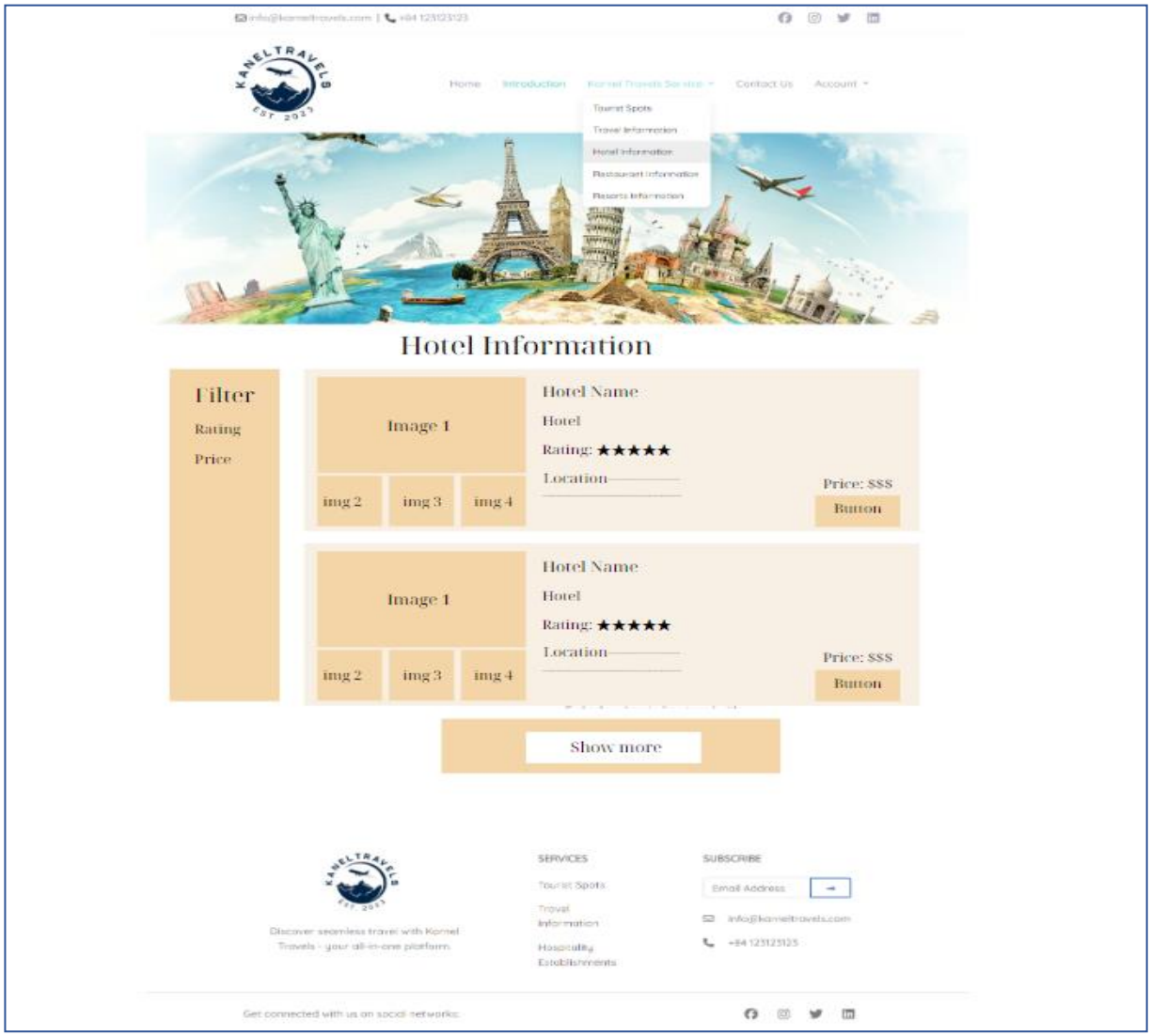


Description: This is an Travel Information page. Leads to detailed information pages about tourist attractions, hotels, restaurants, and resorts.

From: Karnel Travel Service/ Travel Information on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

c. Hotel Information

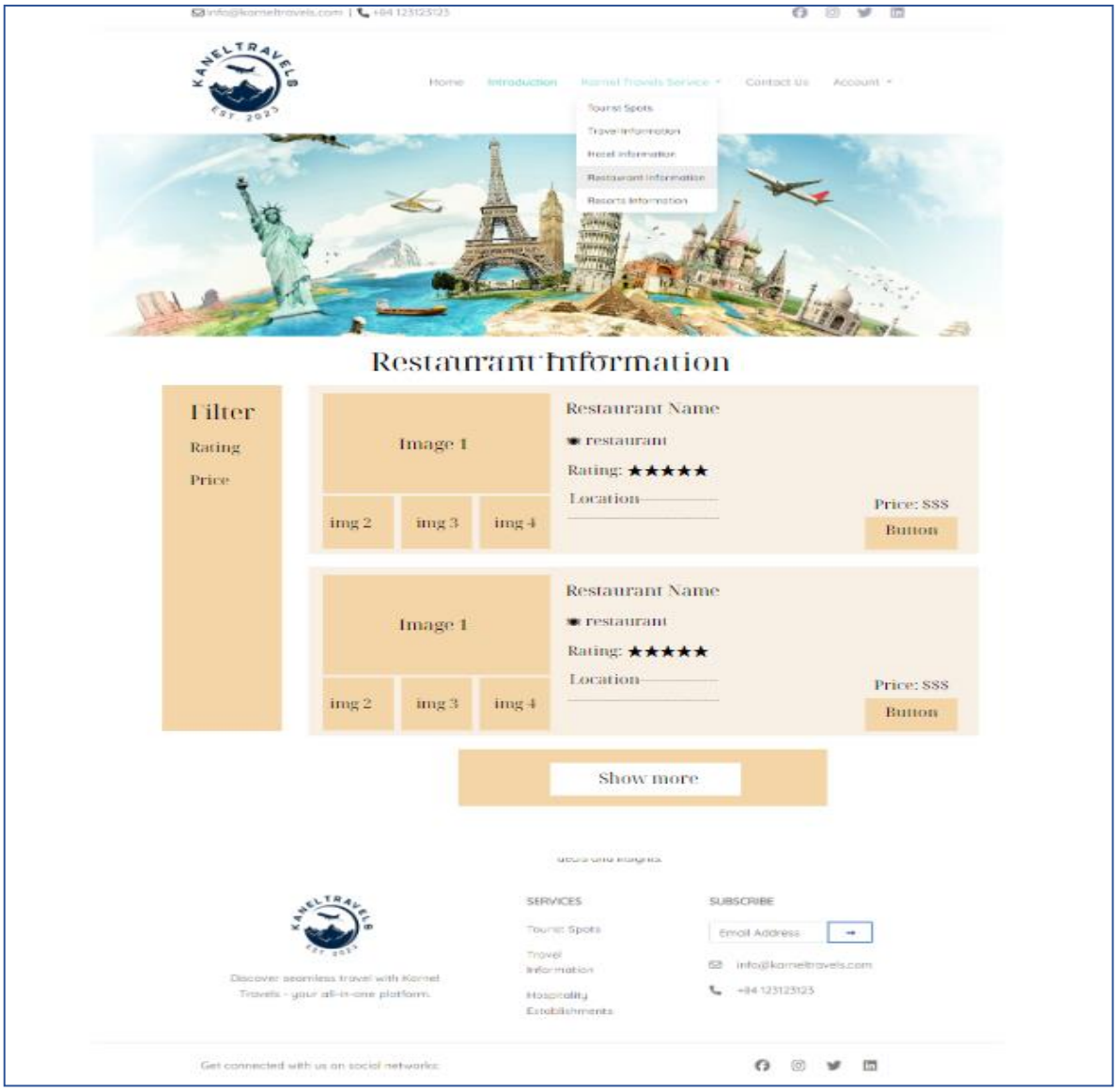


Description: This is an Hotel Information page. Leads to detailed information pages about hotel.

From: Karnel Travel Service/ Hotel Information on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

d. Restaurant Information

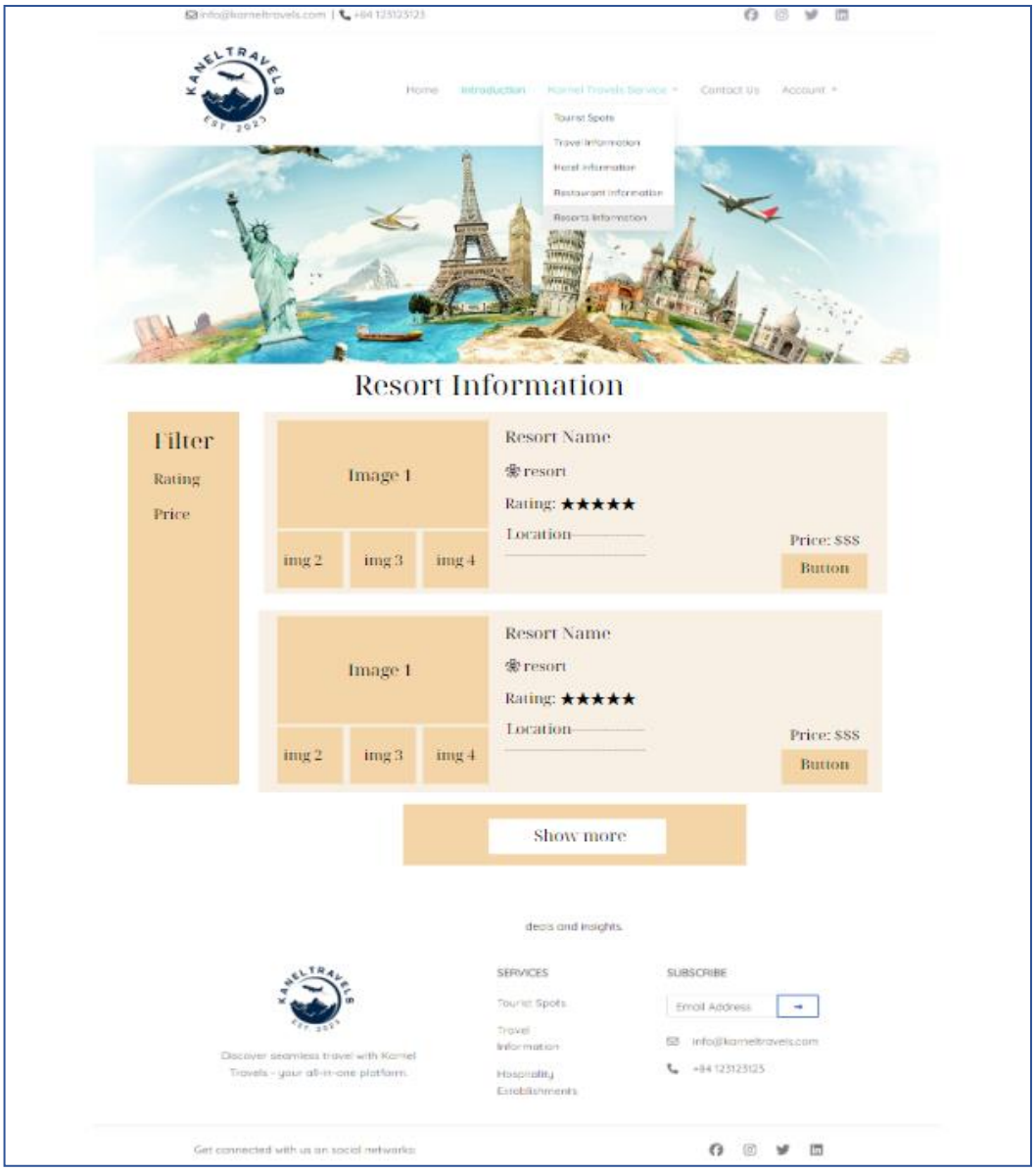


Description: This is an Restaurant Information page. Leads to detailed information pages about hotel.

From: Karnel Travel Service/ Restaurant Information on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

e. Resort Information

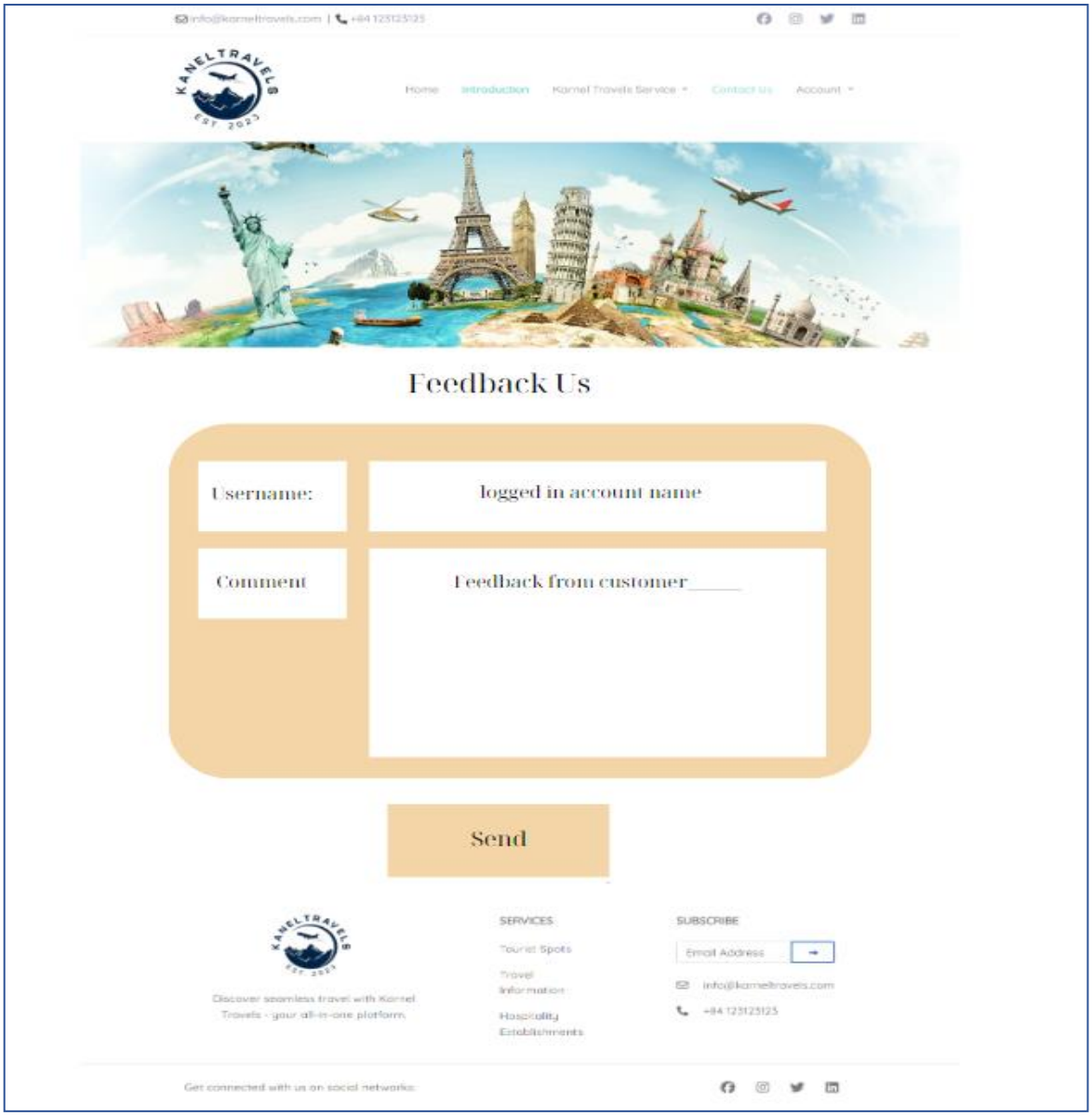


Description: This is an Resort Information page. Leads to detailed information pages about hotel.

From: Karnel Travel Service/ Resort Information on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

4. Contact Us



Description: This is a Contact Us page, used to listen to feedback from customers from travel services.

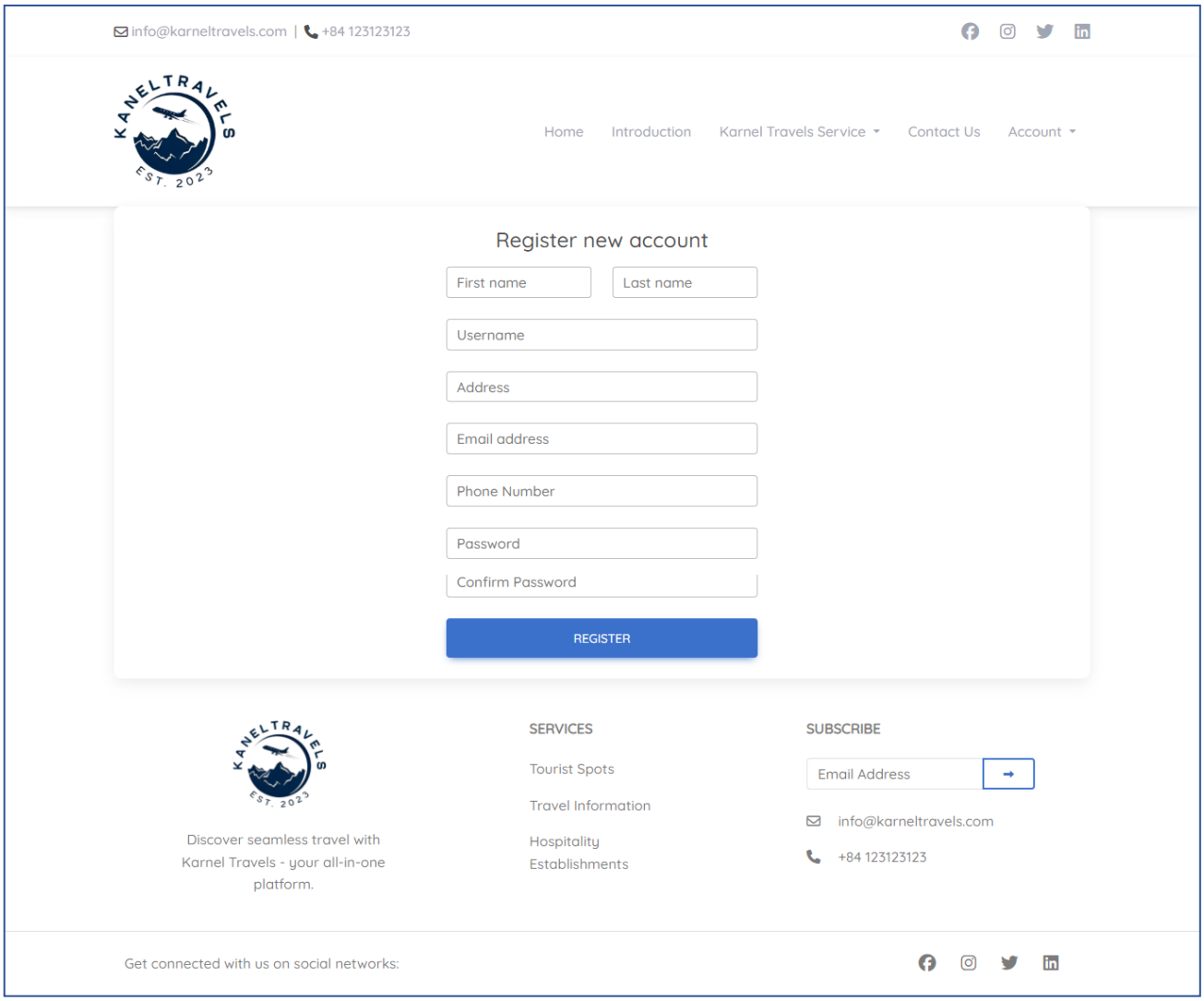
From: Contact Us on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Account.

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:02	LE THANH NHAN
Signature		
Date		

5. Account

a. Register

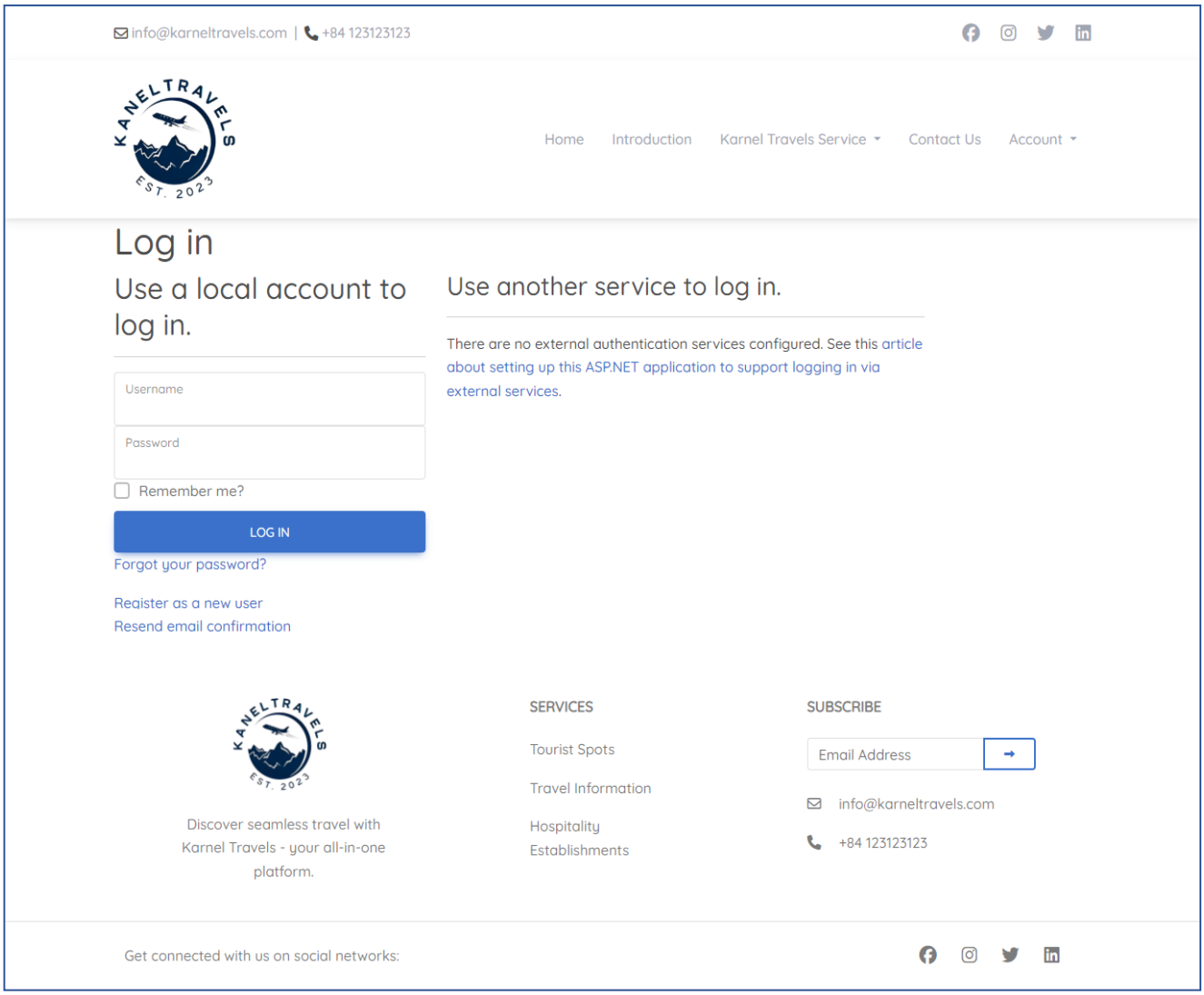


Description: This is Register page. Allows users to register for an account.

From: Account/Register on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

b .Login

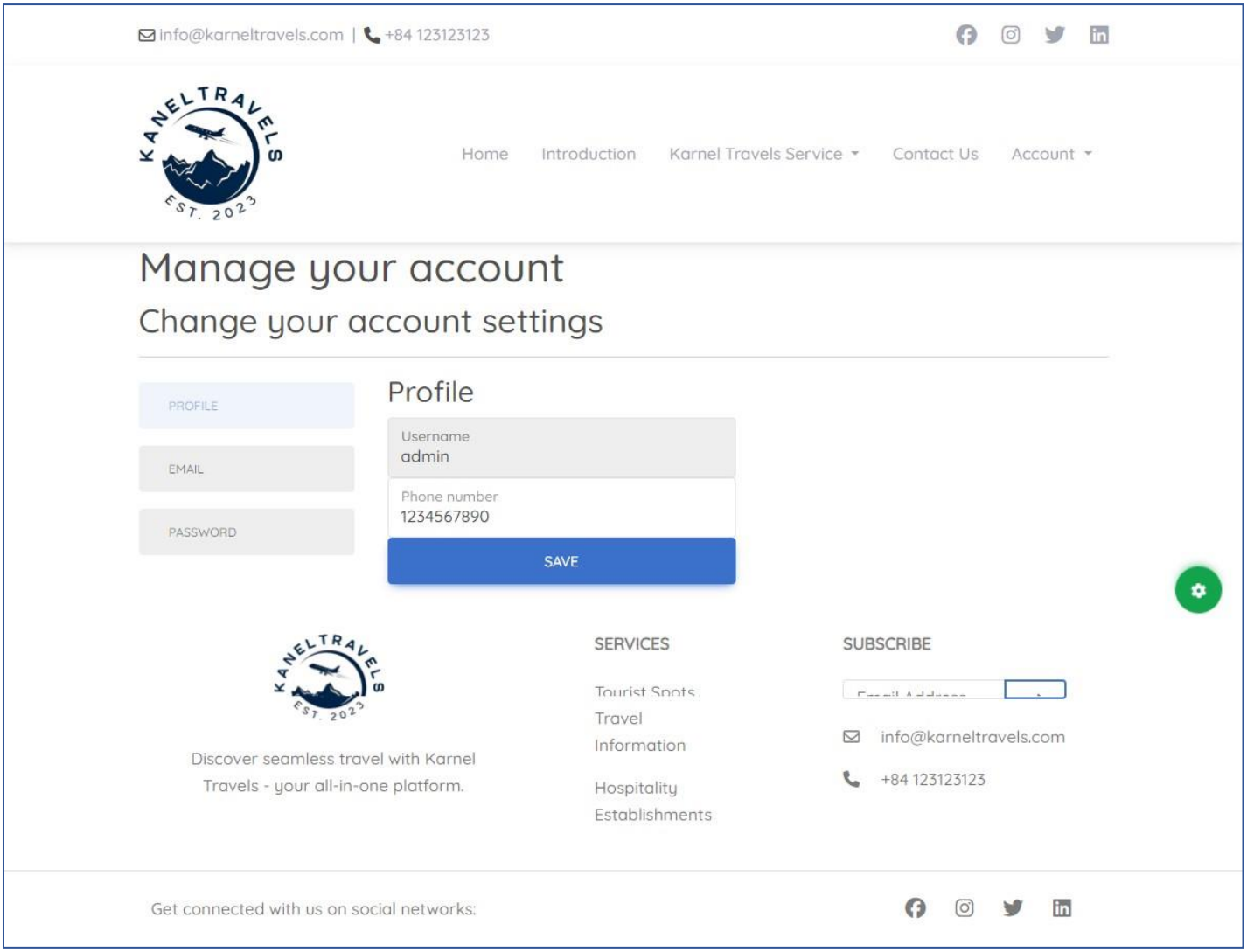


Description: This is a Login page. Allows users to Login for an account.

From: Account/Login on the menu taskbar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

c. User Profile



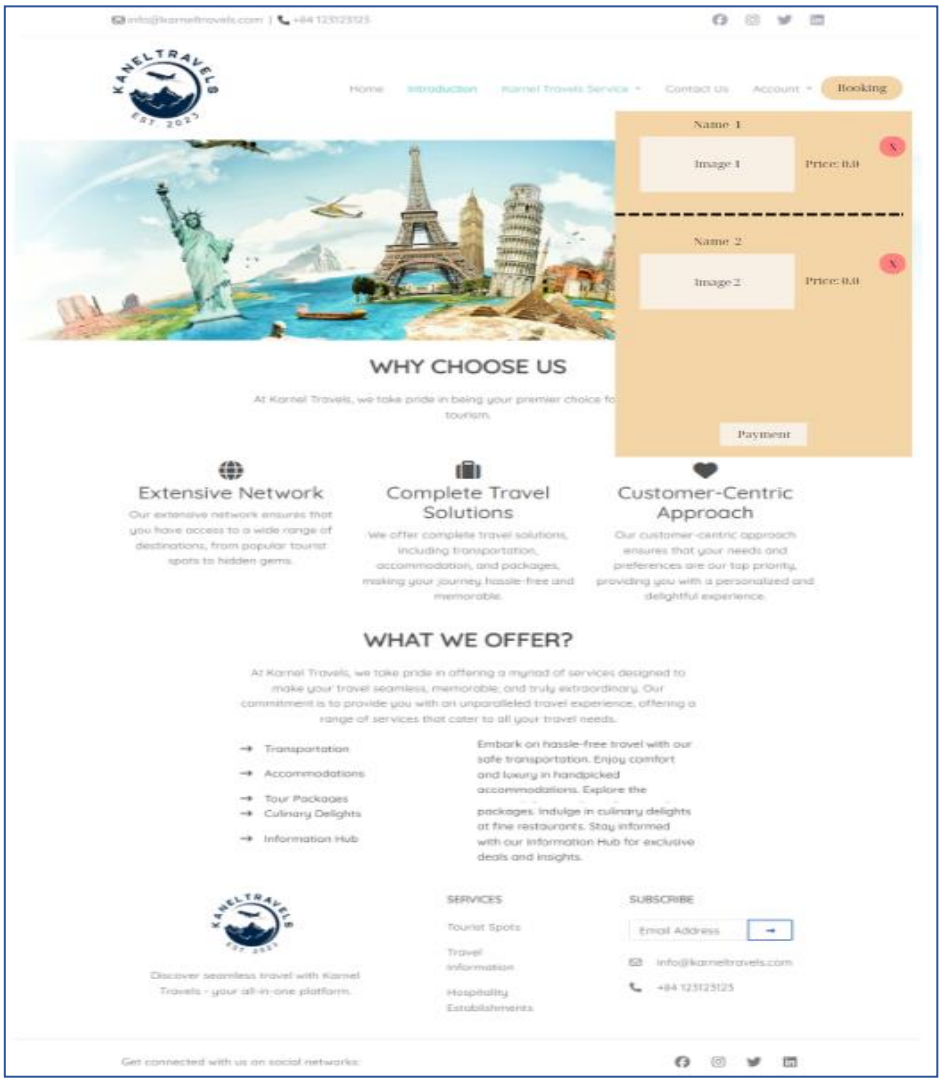
Description: This is a Profile page. Allows users to update information for an account.

From: When you successfully log in to your account. Click Account/Profile on Menu task bar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account.

6. Booking

a. Booking cart

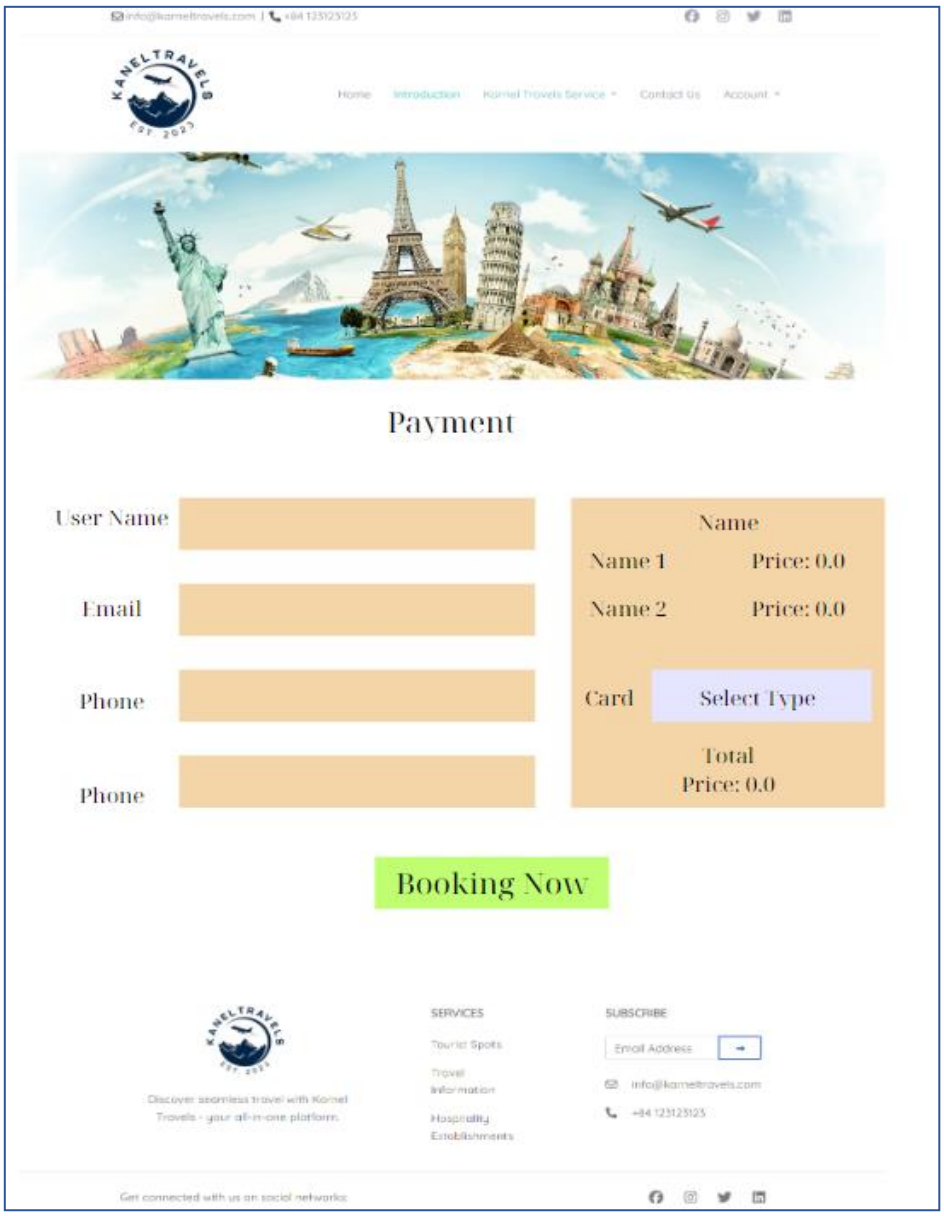


Description: This is a Booking popup. Allows users to update/delete booking services.

From: When you successfully log in to your account. Click Booking on Menu task bar.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account

b. Payment



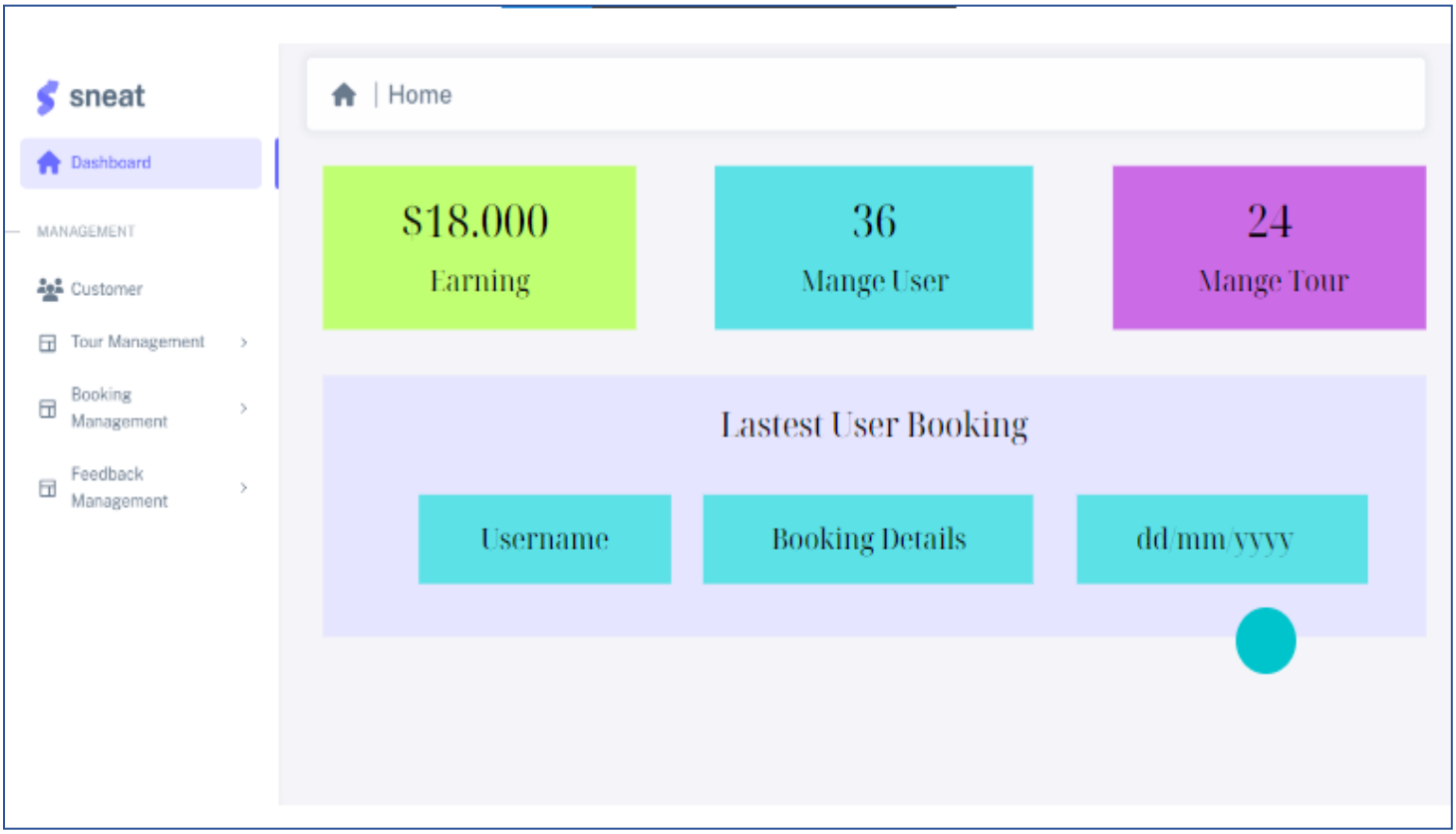
Description: This is a Payment page. Allows users to payment services.

From: When you successfully log in to your account. Click Payment on Booking popup.

To: Home, Introduction, Karnel Travel Service, Contact Us, Account

B. ADMIN

1. Dashboard

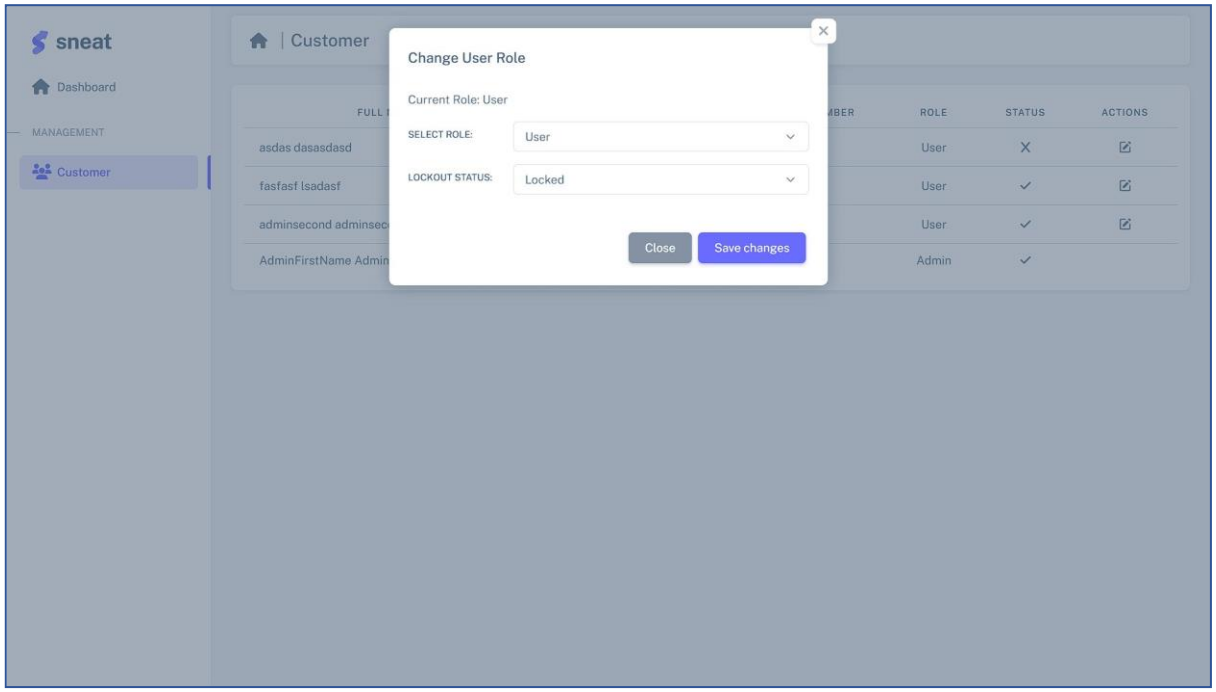


Description: This is the main page when the account logs in with admin rights. Allows management of some website information.

From: Admin/Dashboard

To: Customer, Tour Management, Booking Management, Feedback Management.

2. Customer



Description: This is the Cutomer page when the account logs in with admin rights. Allows management of some customer information.

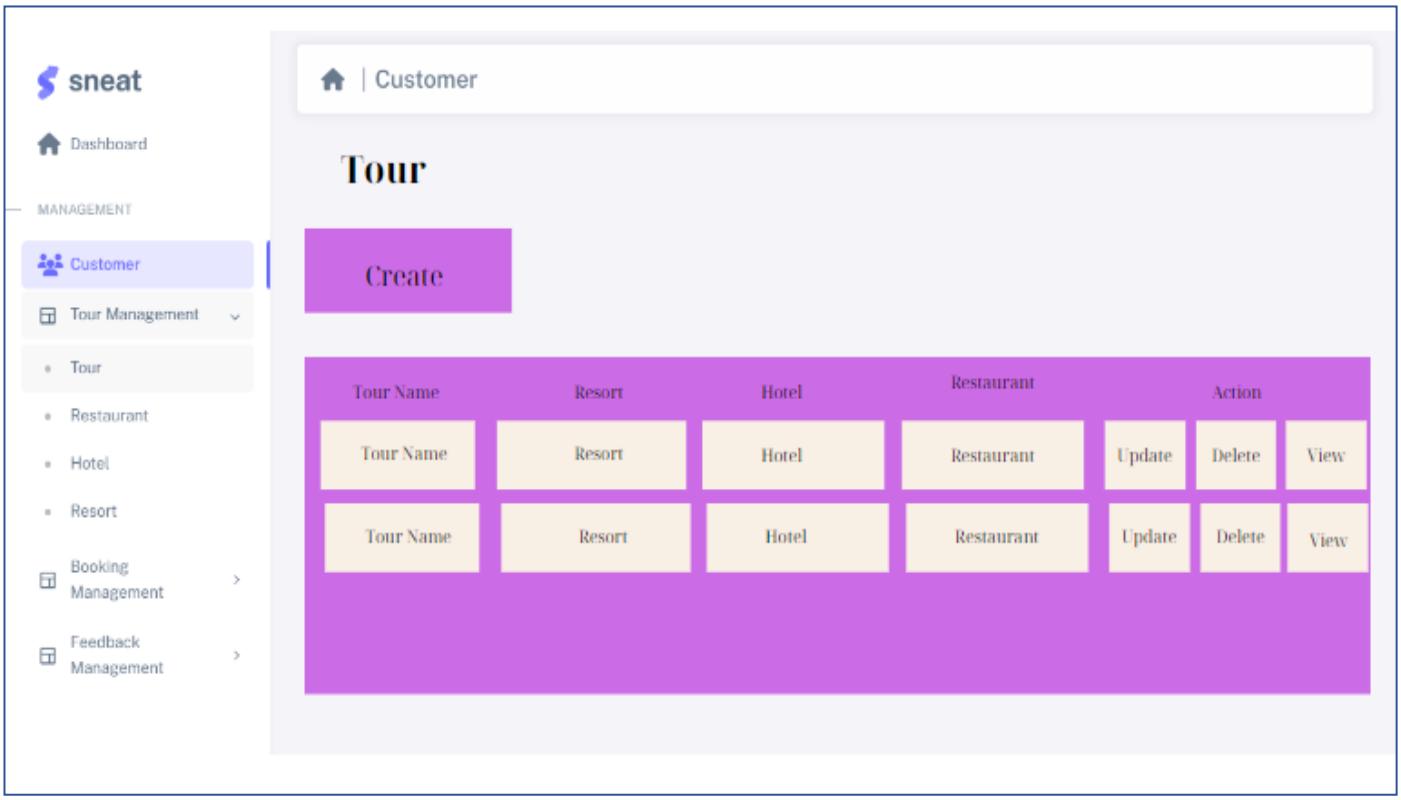
From: Admin/Customer.

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

3. Tourist Mangement

3.1 Tour Mangement

a. Tour

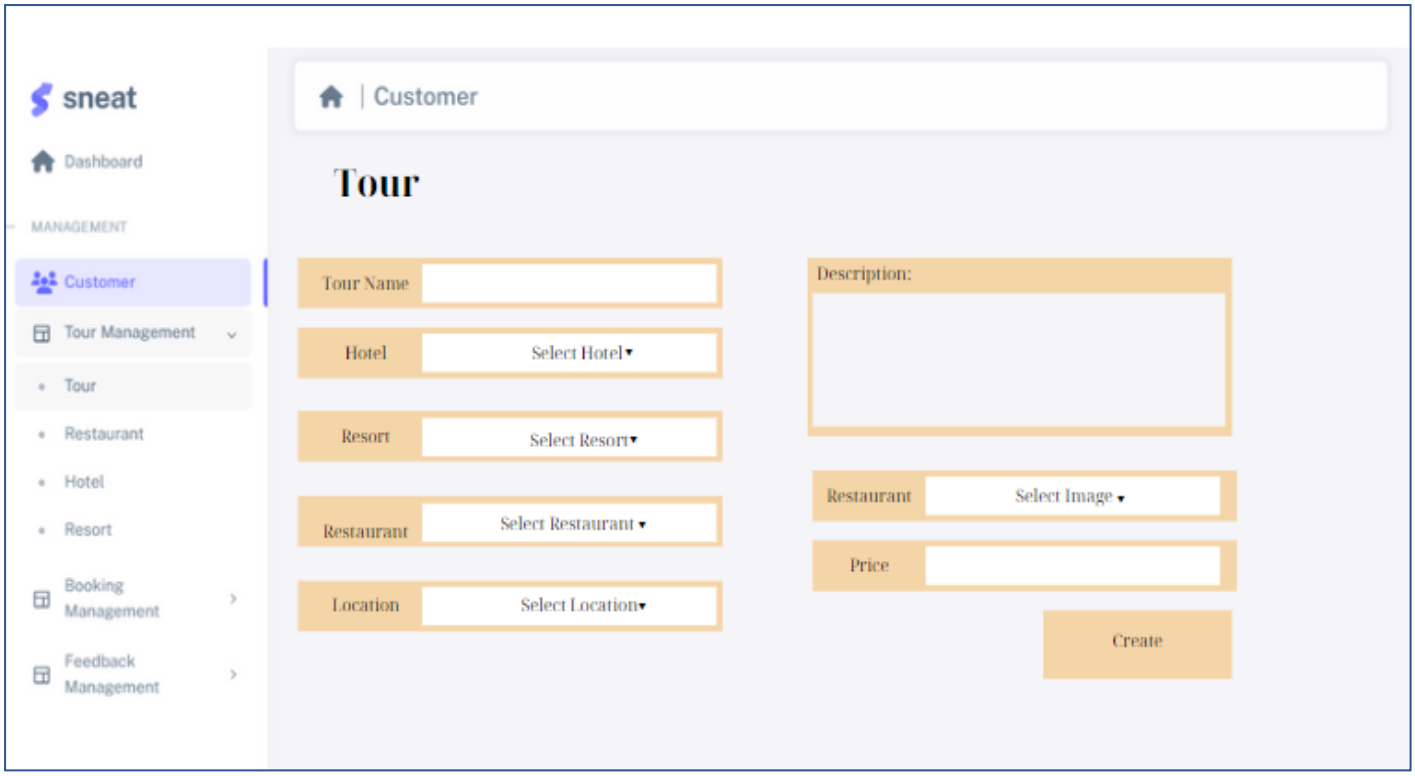


Description: This is the Tour Management page when the account logs in with admin rights. Allows management of some Tour information.:

From: Tour Management/Tour

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

b.Create Tours



Description: This is the Create Tour page. Allows customization to create a tour according to your partner's needs.

From: Tour Management/Tour/Create

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

3.2 Restaurant Management

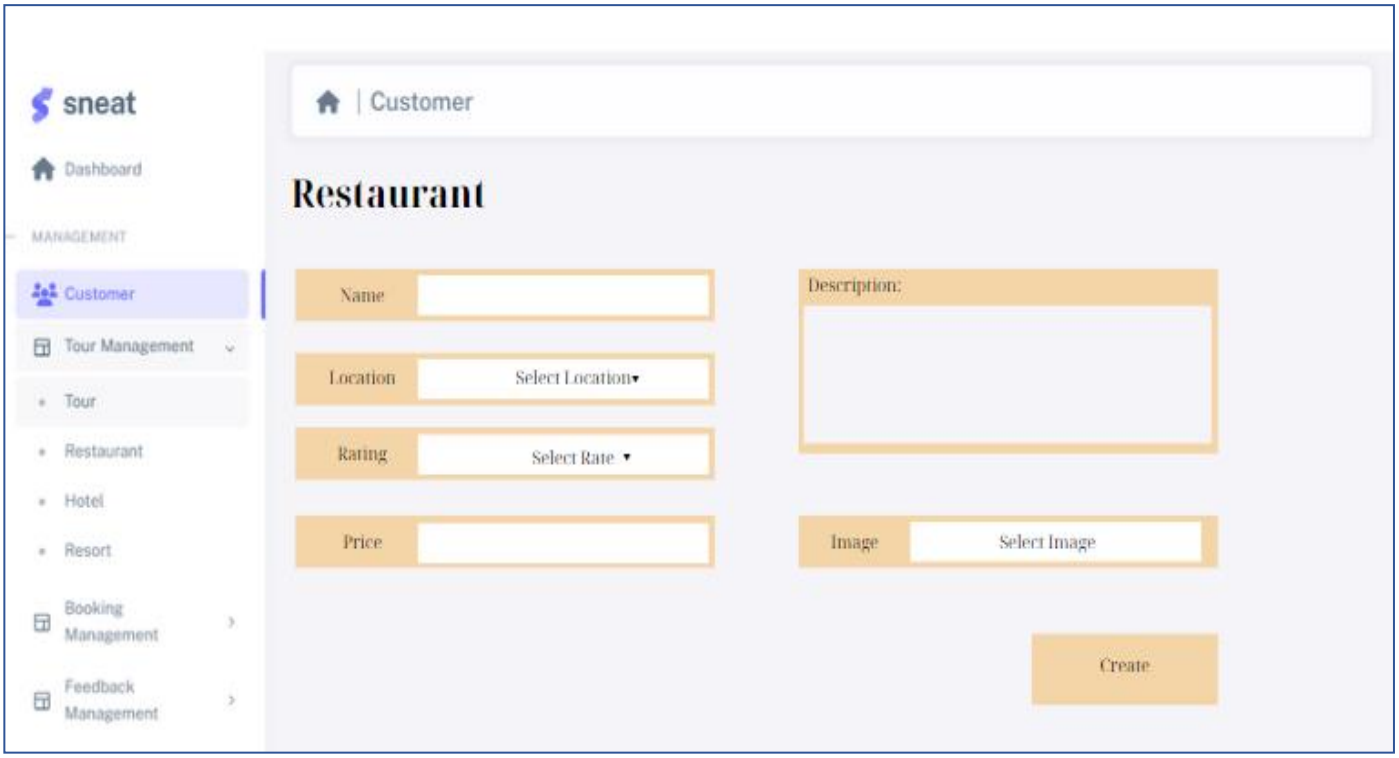
a. Restaurant

Description: This is the Tour Management. Allows management of some Restaurant information.:

From: Tour Management/Restaurant

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

b.Create Restaurant



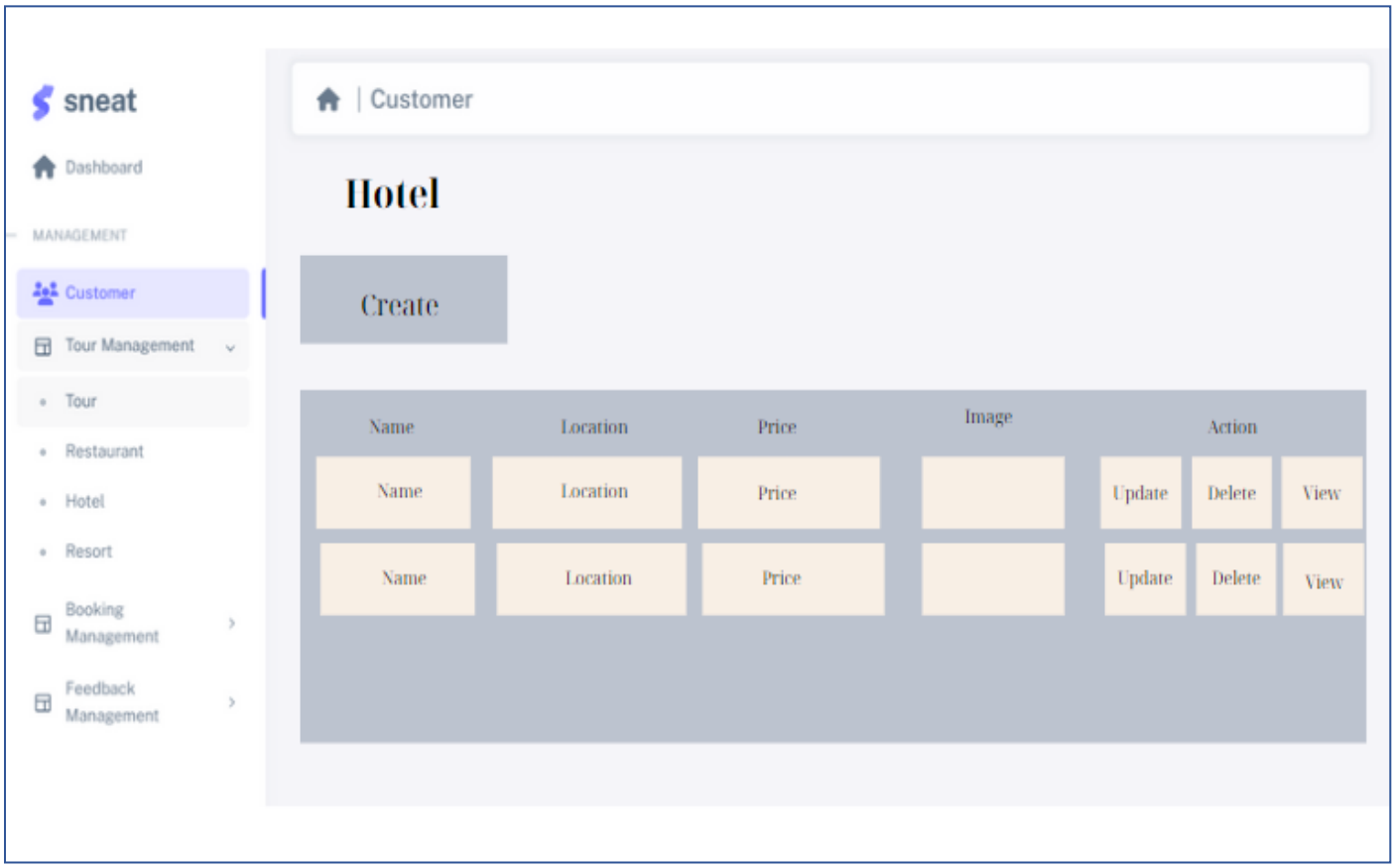
Description: This is the Create Restaurant page. Allows customization to create a restaurant according to your partner's needs.

From: Tour Management/ Restaurant/Create

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

3.3 Hotel Management

a. Hotel

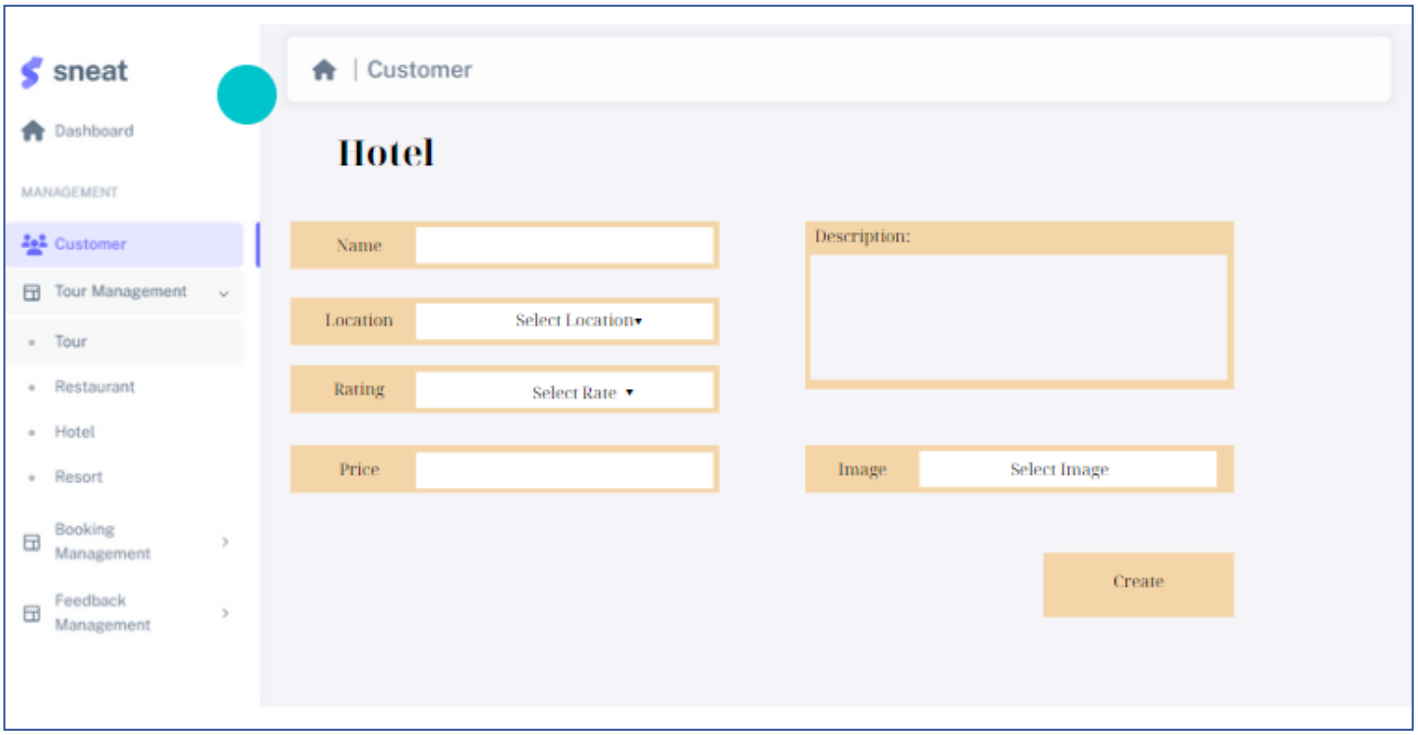


Description: This is the Hotel Management. Allows management of some Hotel information.:

From: Tour Management/Hotel

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

b. Create Hotel



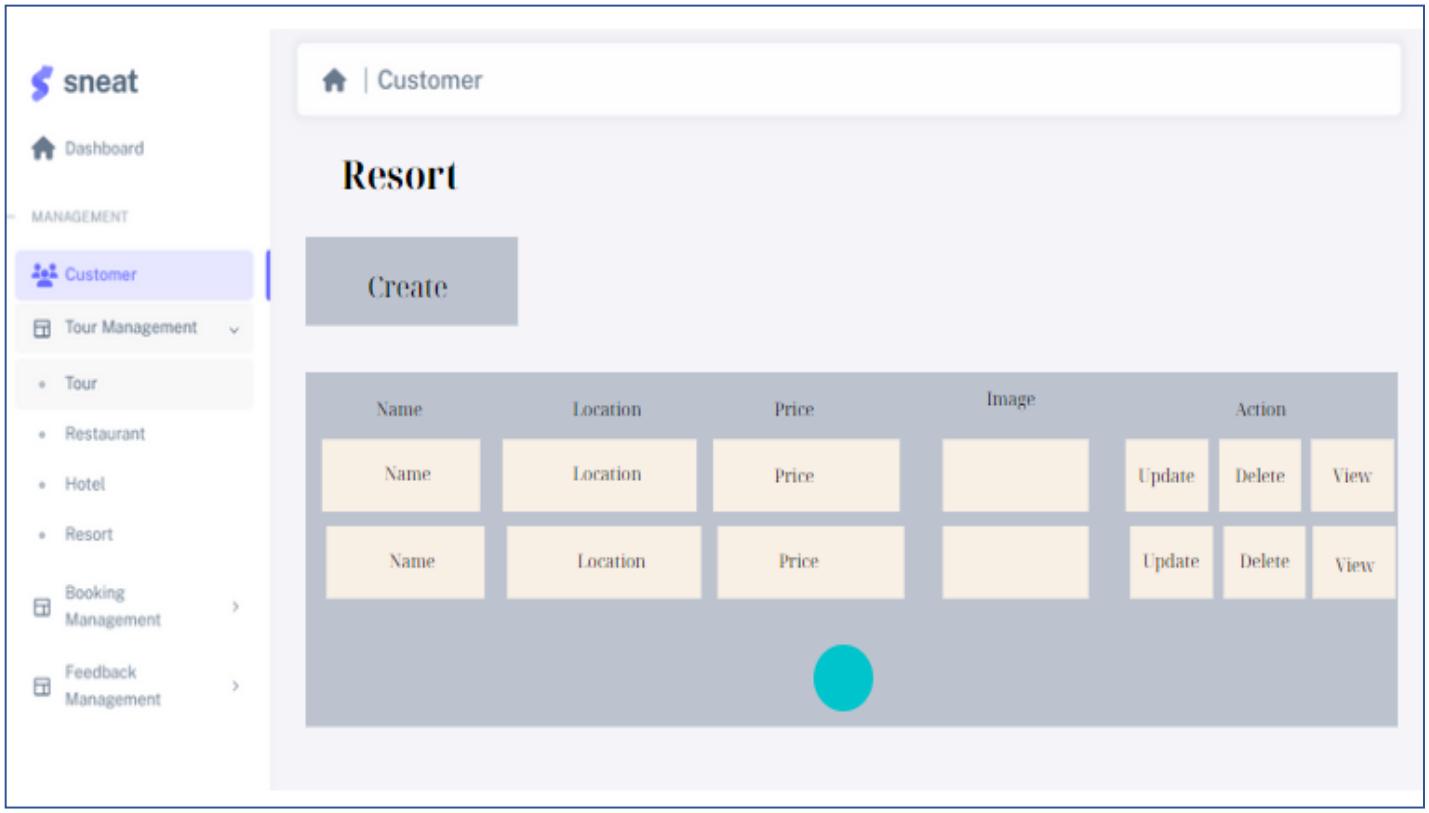
Description: This is the Create Hotel page. Allows customization to create a hotel according to your partner's needs.

From: Tour Management/ Hotel/Create

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

3.4 Resort Management

a. Resort

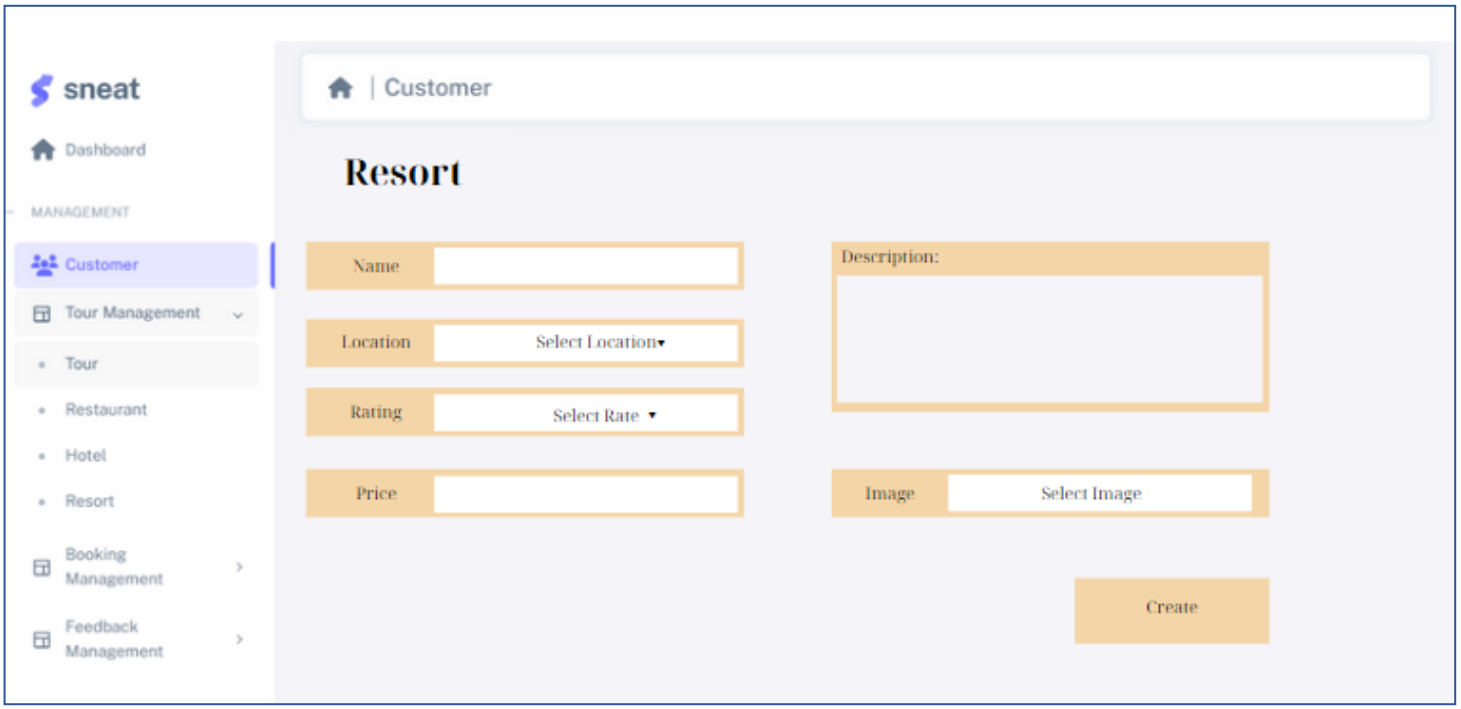


Description: This is the Resort Management. Allows management of some Resort information.:

From: Tour Management/Resort

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

b. Create Resort

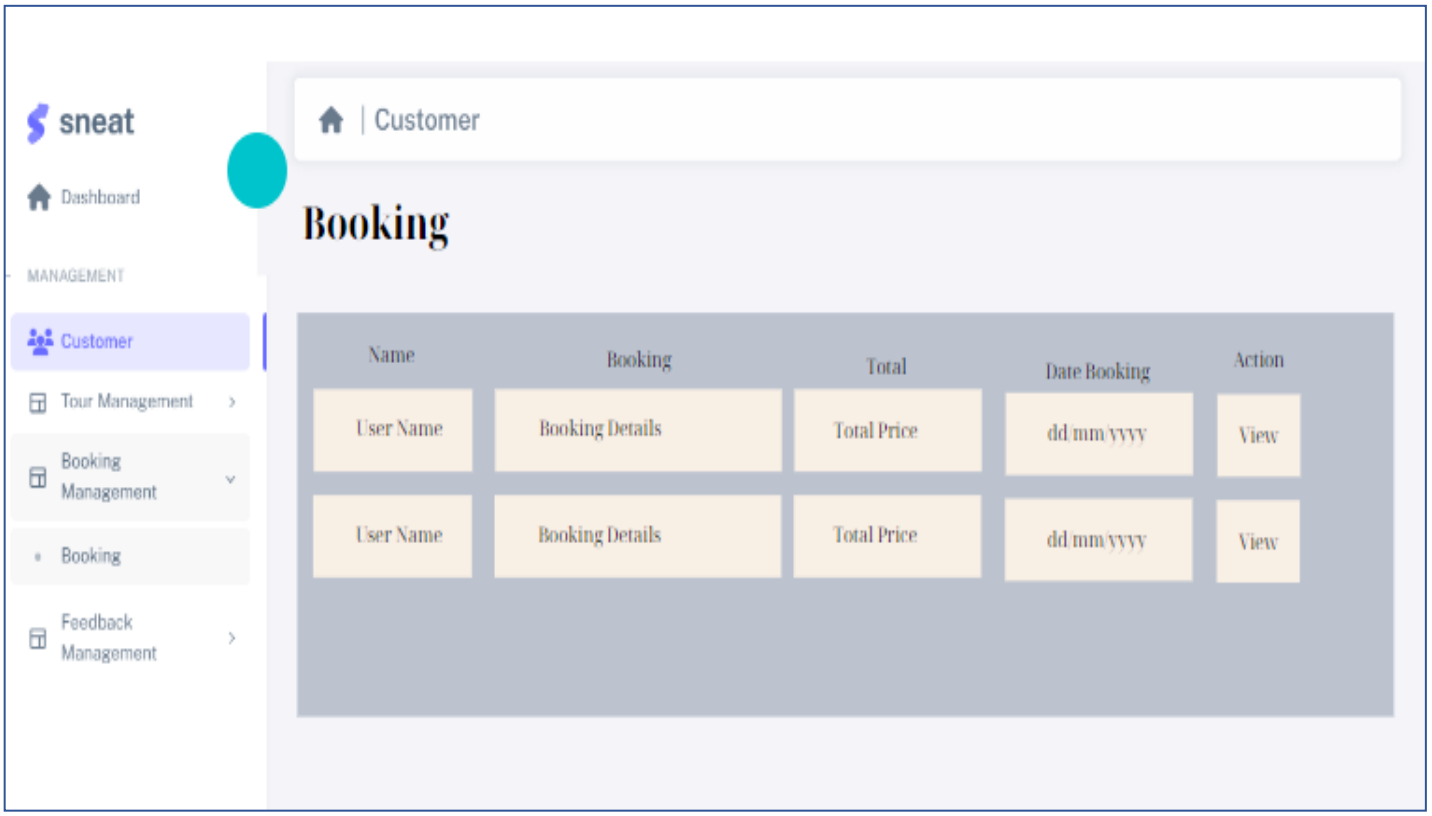


Description: This is the Create Resort page. Allows customization to create a resort according to your partner's needs.

From: Tour Management/ Resort /Create

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

4.Booking Management



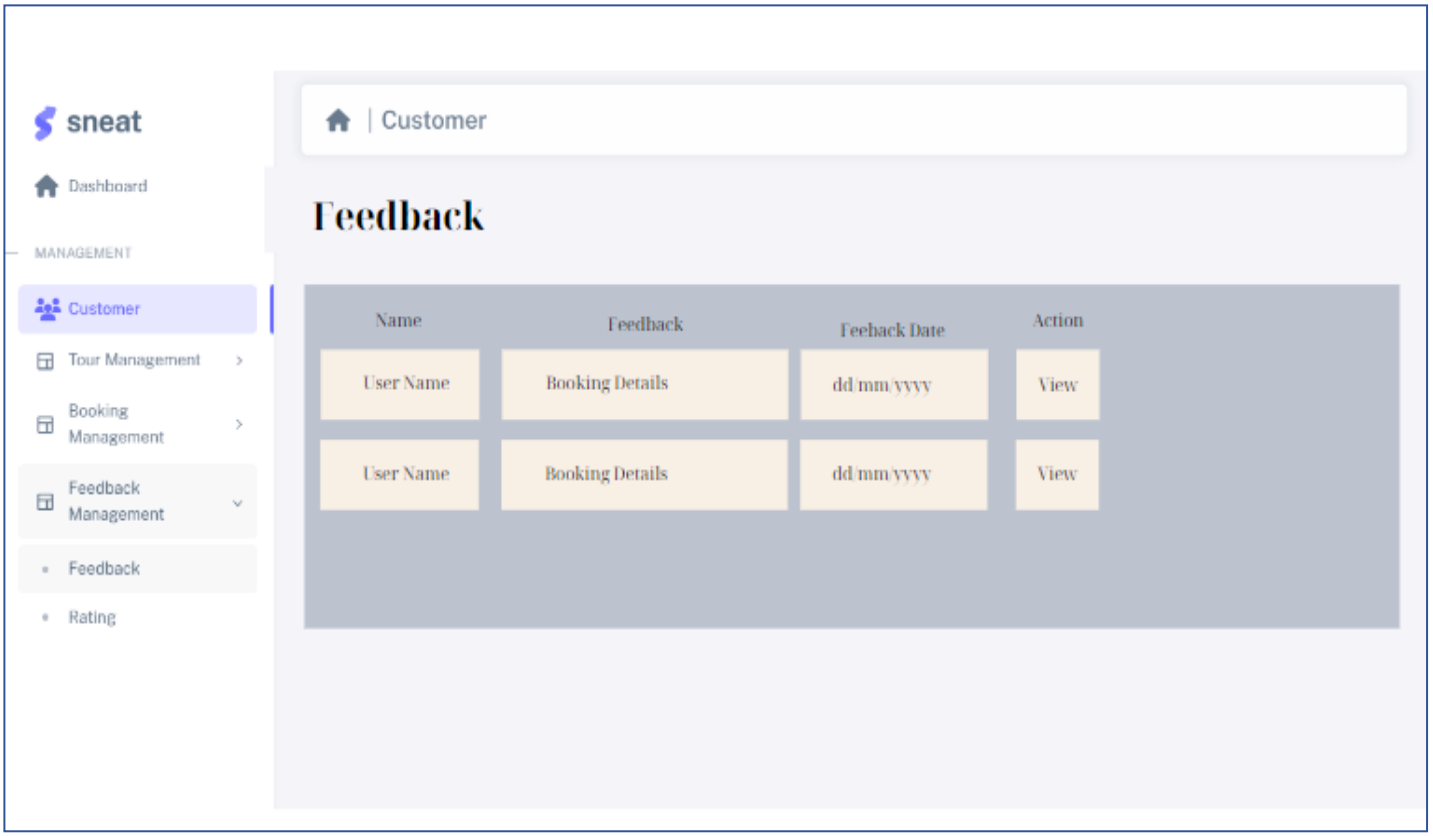
Description: This is the booking management page. Used to manage paid customer information

From: Booking Management/ Booking

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

5. Feedback Management

a. Feedback



Description: This is the feedback management page. Used to manage customer information that has provided feedback about the services the company has provided.

From: Feedback Management/ Feedback

To: Dashboard, Customer, Tour Management, Booking Management, Feedback Management.

Checklist of Validations

Option	Validated
Do all numeric variables have a default value of zero?	YES
Does the administrator have all the rights to create and delete the records?	YES
Are all the records properly fed into the appropriate database?	YES
Have all the modules been properly integrated and are completely functional?	YES
Have all the Design and Coding Standards been followed and implemented?	YES
Is the GUI design consistent all over?	YES
Is the navigation sequence correct through all the forms/ screens in the application?	YES
Is exception handling mechanism implemented in all the screens?	YES
Are all the program codes working?	YES

Submission Checklist

Sr.No.	Particulars	Yes	No	NA	Comments
1.	Are all users able to search for a particular record?	Yes			
2.	Are all old records properly saved and retrieved when required?	Yes			
3.	Have all modules been properly integrated and are completely functional?	Yes			
4.	Are GUI contents devoid of spelling mistakes?	Yes			
5.	Is the application user-friendly?	Yes			
6.	Is the project published properly into a setup file?	Yes			

No	Member	Task		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planed Start Date	Actual Start Date	Actual Days	Status
1	**Hứa Trường An**	Admin	*Tourist Managemen: Tour, Hotels*	Hotel TouristSpot TravelInfor				OK
2								OK
3		User	*Introduction*					OK
4			*Travel Service/Tour, Hotels*					OK
1	**Lê Bá Thành**	Admin	*Feedback Management*	Feedback Rating User				OK
2								OK
3								OK
		User	*Home + Search*					
4		User	*Contact Us*					OK
1	**Nguyễn Trung Quân**	Admin	*Booking Management*	User				OK

	Prepared by (Student)	Approved by (Faculty)
	Project Group No:	LE THANH NHAN
Signature		
Date		

2		Admin	*Customer*	UserRoles				OK
3		User	*Account*	Payment				OK
4			*Booking + Payment*	Booking				OK
1	**Lê Thành Đạt**	Admin	*Tourist Managemen: Restaurant, Resort*	Restaurant				OK
2								OK
3		User	*Travel Service/Restaurant, Resort*	Resort				OK
4			*Advanced Search*					OK

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:	LE THANH NHAN
Signature		
Date		