

Resort Management System using Laravel Framework (PHP)

by

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A project submitted to the Department of Computer Science and Engineering
in partial fulfillment of the requirements for the degree of
M.Engg. in Computer Science and Engineering

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Declaration

It is hereby declared that

1. The [project] submitted is my own original work while completing degree at Brac University.
2. The project does not contain material previously published or written by a third party, except where this is appropriately cited through full and accurate referencing.
3. The project does not contain material which has been accepted, or submitted, for any other degree or diploma at a university or other institution.
4. We have acknowledged all main sources of help.

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Abstract

The resort business is a financial venture for the owner and a haven for the visitor's family. Online resort management systems can better manage the user's reservation procedure. Online Resort Management System is developed for providing the resort booking service to the User without facing any problem. If a customer hasn't made sufficient plans using the current method, he or she may get to enjoy and rest while traveling to a beach resort to unwind over the weekend. Currently the Resort Company's reservation process is manually which is a very time-consuming process. Through this study, it was discovered that since the attendants paid greater attention to it, a consumer must physically visit the resort in order to be guaranteed a room. Thus, we developed a system where customers can choose their room and book it from anywhere. This system not only deals with a room booking but also deals with the foods and services also. There are two types of user in this system that is Admin and User. Admin can handle User information and also total System. Admin can handle booking details, update status for booked rooms, create staff profile. And customer can book rooms by searching room's information according to their demand. The objective of this system is to make the Resort Management System easy, reliable, user friendly, and corrective. This system will reduce the resort reservation tedious job of system paperwork by keeping all the project details of resort reservations are stored in the database in computer's hard disk. The main objective of this system is to automate the resort reservation process like- creation of a User id, assign the resort's room according to User's demand, advance reservation, cancellation, and payment and so on. There will be an e-mail notification of staff's contract expiry to the admin as well as staff member. Customer will receive an e-mail notification of their booking. We have plans to implement other features in future. We could not add all of them just because of the time limitation. At the end of the day, what we can say is we put our honest effort and hard work to implement the system as efficient as possible. We wish to make it flawless in near future.

Keywords: Resort Management; Laravel Framework; PHP (Hypertext Preprocessor); Customer; Booking; Tourist; Payment; online reservation;

Dedication (Optional)

This thesis is dedicated to Resort owners. They can use it easily for their customers and maintain all records of customer as well as their resort staff members. I hope this work may provide a significant impact to the tourist places of our country.

Acknowledgement

At first, I would like to thank Almighty ALLAH for helping me and making me able to complete my project work at the time successfully.

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Chapter 1

Introduction

Tourists find it quite difficult to get to places that fit their preferences. Any place or places with pleasant environment and atmosphere conducive to comfort, healthful relaxation and rest, offering food, sleeping accommodation and recreational facilities to the public for a fee or remuneration. Resort Reservation is used to provide facility to integrate the different branches of resorts makes it possible to reserve the rooms and viewing of facilities to the customers online. If any customer is willing to come to the resort, first he can see the facilities available and cost effectiveness of the resort in the online. If he felt good then he can reserve the rooms by sending self-details with a secured manner [4].

1.1 Motivation

If any customer is willing to go to a place, he do not have any idea about the branches related to particular resort in that place. But this project provides detailed information about the branches available throughout the country. So that customer can register to any branch from his desktop by the internet. Sometimes some people who like the food more, willing to know the favorite dishes available in the resort. This project also provides the information about the dishes they will be available branch wise. For the people who are interested in enjoyment requires the information about the swimming pools, tennis courts, indoor games etc [6]. That information is also available in the internet. Ultimate thing which is provided in this project is the encryption mechanism that will be provided while the customer submitted his personal details through online. Online identity is also generated to view that id when he visits that resort. An e-mail will be sent to the customer e-mail address which verifies their identity as well. For the resort administrators also, this will provide full scheduling and status of the customer visits, room status, bill payment details. After booking the admin will receive a notification of the booking. For resort staff contract the admin will receive notification of their contract expiration.[1] This project also shows how to take advantage of the skyrocketing demand for "mini-vacations." Moreover, it includes the concierge function, computer systems, and health clubs/spa facility management.

1.2 Background of Study

Today we can see different types of management software to manage our everyday tasks smoothly and perfectly. I thought about the making of daily life and financial related management software. So, for this reason I have chosen to develop Online Resort Management System for this company. Because currently, staffs at the resort are using the manual system to reserve the resort and manage multiple rooms and other facilities booking including rooms, meeting hall, swimming pools and foods. The customers always complain on how they hate to come and queue up to reserve resort. Most of them preferred the booking system. However, the booking system of transport tickets is manually done which is just by calling the ticket counter and the staff there will record the booking on their specific book. Besides, the telephone line is sometimes too busy to reach since it has only one official contact number. Sometimes customer needs to call the reception many times. This brings a lot of inconvenience to the visitor. As for the reception staff, it is very inconvenient to refer the booking book to check for the available rooms for visitor every time they asked. They cannot see the room or villas and select it. Therefore, Online Resort Management System is developed to make it easier for the visitor to reserve all types of rooms, pools, foods into one system. The user can simply reserve all these using this system. In addition, visitor can check the necessary information regarding room, pool and food before they reserve the resort. There are numbers of available application for Resort Booking system. But in Resort Reservation System, user or visitor can book different categories rooms in one system and this system will make the —resort reservation process easier for the visitor.

1.3 Organization of the Report

The report is structured in the following manner - In Chapter 2, I shall try to explain the concepts related to the subject matter in detail, objectives and proposed system. In Chapter 3, I shall briefly explain the Proposed Methodology. Then, in Chapter 4, the Requirement Engineering has been shown. In chapter 5, the System Planning is discussed. Chapter 6 has the Analysis Modelling where the collaboration diagram, ER diagram, Database Design and User Interfaces are shown. Chapter 8, chapter 9 and chapter 10 has the quality management, coding and Testing respectively. Finally, I'll wrap up the conclusion and some limitations along with future scopes of this in Chapter 11.

Chapter 2

Literature Review

In this chapter, I'll discuss some of the about the existing and proposed works that have direct or indirect impacts on the paper.

2.1 Existing System

Currently the Resort Companies handles resort reservation process manually which is a very time-consuming process. It deals with resort industry's resort reservation and resort maintenance, so it becomes a very tedious job for the resort reservation authority to look after these particulars to complete the task at right time. The Online Resort Management System not only deals with a room reservation but also deals with the reservation for foods also. This system will lead to increase in the resort reservation efficiency of the members with little throughout. This system project is made as user friendly as possible so that anyone can use it with little knowledge about computer system. The RRS will reduce the resort reservation tedious job of system paperwork by keeping all the project details of resort reservation, cancelling reservation are stored in the database in computer's hard disk. This system provides up to date information that is not possible manually.

2.2 Objectives

The objective of this system is to make the Resort Management System easy, reliable, user friendly, and corrective. Moreover, less time consuming as compared to manual work. This system also provides report of the resort reservation different aspects can be generated like available seats, current status of booking, cancelling details monthly status report etc. The main objective of this system is to automate the resort reservation process like- creation of a customer id, assign the tickets according resort reservation to visitor's demand, advance bookings, reservation cancellation, notification of booking, staff contract expiry and so on. As for the counter staff, it is very inconvenient to refer the reservation book to check for the available resort for visitor every time they asked. Therefore, Resort Management System is developed to make it easier for the visitor to reserve all types of resorts into one system[4]. The user can simply reserve book the resort using this system. In addition, visitor can check the necessary information regarding rooms, pools, hall rooms, playground and foods before they reserve the resort. There are numbers of available application

for resort management system. But in Resort Management System, user or visitor can book different categories tickets in one system and this system will make the —resort reservation process easier for the visitor.

The target audience of this project is the visitors to the resort. So that the main objective of this project is to attract the visitors towards the resort by exploring the facilities in the resort and maintaining the customer information confidential even in the internet. To provide the best service with great hospitality, resort administrator will maintain the track of the visitors and services to improve their performance while providing the services. This is achieved through the proper maintenance of room reservations, providing variety of dishes based on demand. Integration of all the branches of this resort can facilitate branch managers and visitors to know the status of the reservation status of any branch. Visitors can reserve or postpone their visit through online. Moreover, less time consuming as compared to manual work. This system also provides report of the resort reservation different aspects can be generated like available rooms, current status of booking, cancelling details monthly status report etc. The main objective of this system is to automate the resort reservation process like- creation of a visitor id, assign the tickets according to visitor's demand, advance bookings, select food and so on. Visitors can get information about price rate of resort villas and also can give rating for Resort Company through this system.

Chapter 3

Proposed Methodology

The research procedure and methods utilized to carry out the study are presented in this chapter. It comprises data gathering techniques, research tools, and data sources. This chapter also includes the statistical analysis utilized in the software development.

3.1 Data Sources

For this project in data collection phase I collected two types of data.

- Primary Data
- Secondary Data

Primary data are generated within the resort agencies. The resort agencies practical experience and observation helped me to generate the primary data.

Secondary data are generated by studying different articles, newspapers, research papers and of course information collected via Internet. Data, facts and statistics collected from different web sites and sources made us understand the project better[1].

3.2 Process Model

The Waterfall Model was the first Process Model to be introduced. It is also referred to as a linear-sequential life cycle model. It is very simple to understand and use. In a waterfall model, each phase must be completed before the next phase can begin and there is no overlapping in the phases. The Waterfall model is the earliest SDLC approach that was used for software development.

The waterfall Model illustrates the software development process in a linear sequential flow. This means that any phase in the development process begins only if the previous phase is complete. In this waterfall model, the phases do not overlap. Waterfall approach was first SDLC Model to be used widely in Software Engineering to ensure success of the project. In "The Waterfall" approach, the whole process of software development is divided into separate phases. In this Waterfall model, typically, the outcome of one phase acts as the input for the next phase sequentially[6]. The following illustration is a representation of the different phases of the Waterfall Model.

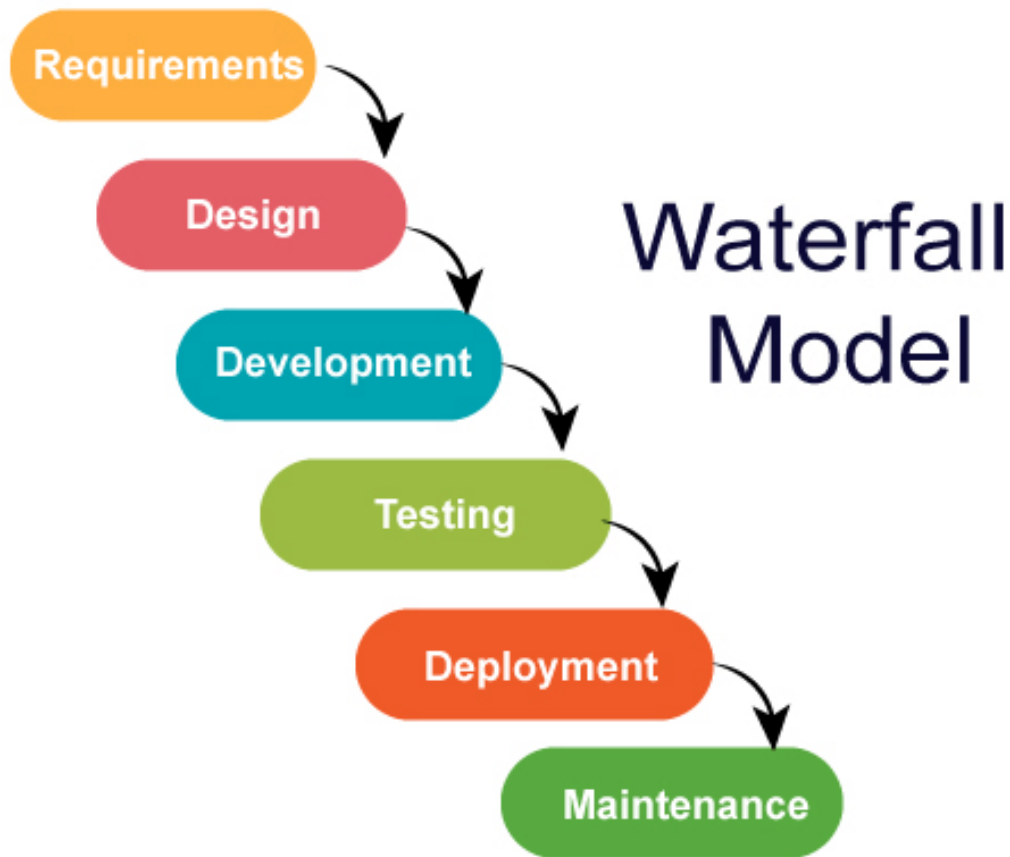


Figure 3.1: Waterfall Process Model

3.2.1 Why Waterfall Model

The waterfall development is that it allows for departmentalization and control. A schedule can be set with deadlines for each stage of development and a product can proceed through the development process model phases one by one.

Development moves from concept, through design, implementation, testing, installation, troubleshooting, and ends up at operation and maintenance. Each phase of development proceeds in strict order[6]. Some of the major advantages of the Waterfall Model are as follows -

- Simple and easy to understand and use
- Easy to manage due to the rigidity of the model. Each phase has specific deliverable and a review process.
- Phases are processed and completed one at a time.
- Works well for smaller projects where requirements are very well understood.
- Clearly defined stages.
- Well understood milestones.
- Easy to arrange tasks.
- Process and results are well documented.

3.3 Feasibility Study

Feasibility study determines whether that solution is feasible or achievable for the organization. There are three major areas of feasibility study[1].

- Technical feasibility
- Economic feasibility
- Operational feasibility

3.3.1 Technical feasibility

The technical feasibility assessment is focused on gaining an understanding of the present technical resources and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the need of the proposed system

SN	Hardware Requirement	Software Requirement
1.	Computer (Desktop/Laptop/Equivalent)	Operating System (Windows11or equivalent) with Browser (Google Chrome/Firefox)
2.	Proper electricity Support	Laravel Framework(PHP)
3.	Adequate system memory and secondary memory	Database: MySQL

Table 3.1: Hardware and Software Requirement

3.3.2 Economic feasibility

The purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. My system is economically feasible because by using the proposed system many works can be done within small time and which is not possible by man power within the same time. It also reduces the man power needed for providing the Available Tickets Information, Agent List Information, Transport Routes Information, booking tickets according to the date and time wise and generating report. So, Transport agencies have to pay less salary where the current system needs many staff and they are paying much salary. So, I can say that, if they use proposed system they will be economically benefited.

3.3.3 Operational feasibility

User can easily operate the proposed system because the system is user friendly. It's easy to get transport routes information and easily book tickets according to the demands and also cancel the booked tickets within required time by contact with the agent. If the stuff of the organization has the basic to computer knowledge they could operate and manage the software easily. Every feature and the activity that I

combined within the system is designed and developed belongs to previous format they had used with a more attractive user interface.

Chapter 4

Requirement Engineering

Requirements for the ‘Resort Management System’ project is given in the requirement engineering chapter. The processes of requirement engineering are performed in this project to find out, analyze, document and check the needs of the client. It is performed here to gather and define services provided by this system[1]. The user requirements, system requirements, functional and non-functional requirements for the project ‘Resort Management System’ are given in this chapter. The use case diagram is also shown in this chapter.

4.1 User Requirements

User requirements for the project ‘Resort Management System’ are given below:

1. Admin is able to manage the system
2. Admin is able to manage other actors
3. All the actors are able to manage their profile
4. Admin is able to manage resort’s information
5. Users are able to reserve rooms from the system
6. Users are able to manage their reservation
7. After checking the payment amount, the admin can confirm user’s reservations
8. Admin can manage staff’s profile

4.2 System Requirements

System requirements for each of the user requirements of the project ‘Resort Management System’ are given below:

4.2.1 Admin is able to manage the system

- Admin has to login to the system
- Admin can add new information to the system
- Admin can delete existing information from the system
- Admin can update existing information of the system

4.2.2 Admin is able to manage other actors

- Admin has to login to the system
- Admin can delete existing resorts
- Admin can add new staff information
- Admin can delete existing users

4.2.3 All the actors are able to manage their profile

- Actors have to login to the system
- Actors can update their profile

4.2.4 Admin is able to manage resort's information

- Admin have to login to the system
- Admin can add Resort's information to the system
- Admin can delete Resort's information from the system
- Admin can update Resort's information on the system

4.2.5 Users are able to reserve rooms from the system

- Users can search for available rooms
- Users can reserve rooms by giving their information
- Users have to choose their food packages

4.2.6 Users are able to manage their reservation

- Users have to login to the system
- Users can confirm their payment information on the system

4.2.7 After checking the payment amount, the admin can confirm user's reservations

- Admin have to login to the system
- Admin can check the reservations
- Admin can confirm the reservations
- Admin can cancel the reservations

4.3 Functional Requirements

Functional requirements for the project 'Resort Management System' are given below:

1. Every online booking needs to be associated with an account
2. One account cannot be associated with multiple users
3. Enable users to search and find the most relevant booking options
4. Accept date and time to check available rooms for that particular time
5. Booking confirmation should be sent via e-mail address
6. Calculate and display accommodation charges and other utilities
7. Cancel bookings
8. Display and change records of guests
9. Staff contract expiry notification

4.4 Non-Functional Requirements

Non-functional requirements for the project 'Resort Management System' are given below:

1. Search results should populate within acceptable time limits
2. Users should be helped appropriately to fill in the mandatory fields, in case of invalid input
3. System should accept payments via various payment methods
4. Easy to use, efficient, and accessible
5. Keep track of documentation, activities, and responses

4.5 Use Case Diagram

In the project 'Resort Management System', the use case diagram is used to visualize the different types of roles in a system and how those roles interact with the system. Figure 2 shows the use case diagram for this project.

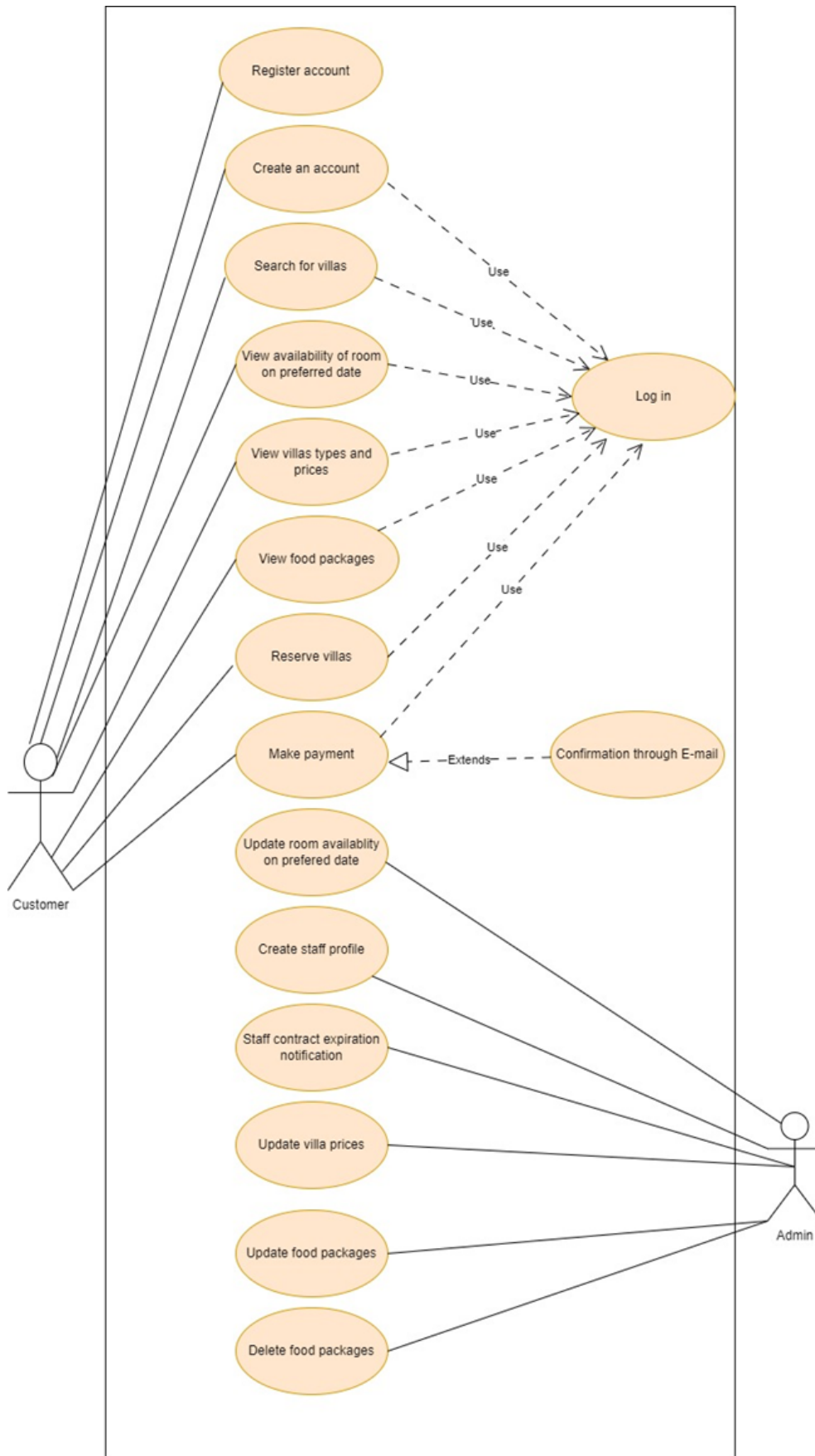


Figure 4.1: Use Case Diagram

Chapter 5

System Planning

System planning chapter shows the functions of the project ‘Resort Management System’[3]. The function point estimation, effort distribution and project schedule chart are also shown in this chapter.

5.1 Effort Distribution

User requirements for the project ‘Resort Management System’ are given below:

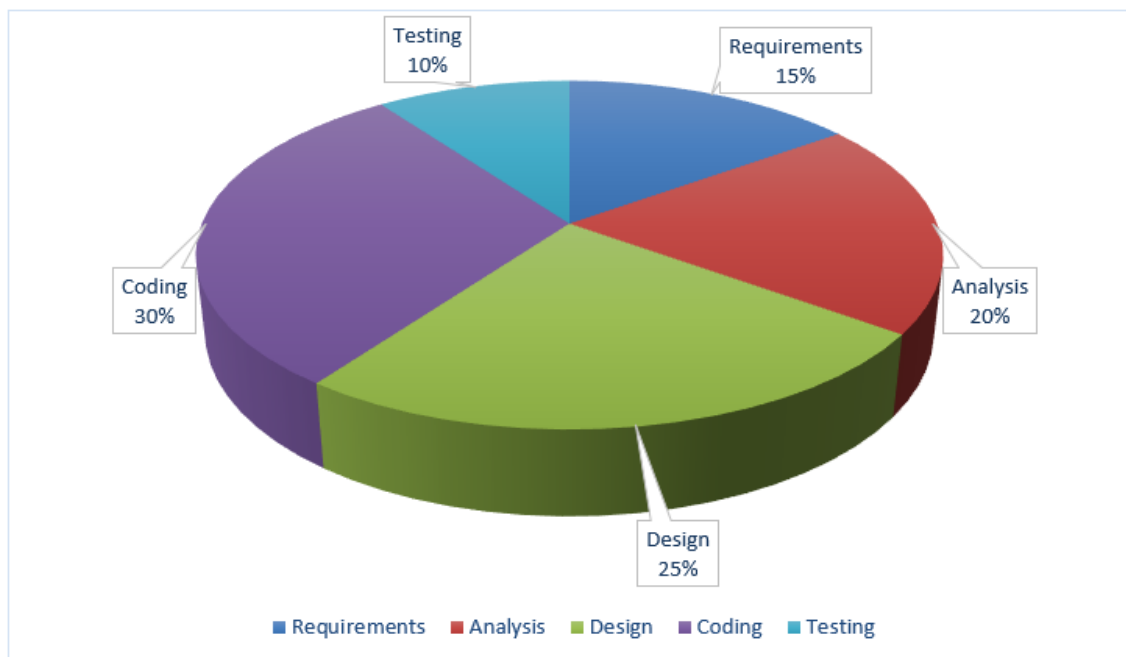


Figure 5.1: Effort Distribution Chart

5.2 Project Schedule Chart

Full System development is an arrangement of set of tasks. Project schedule works as the recommendation of the system developer. Task chart of this system is given below:

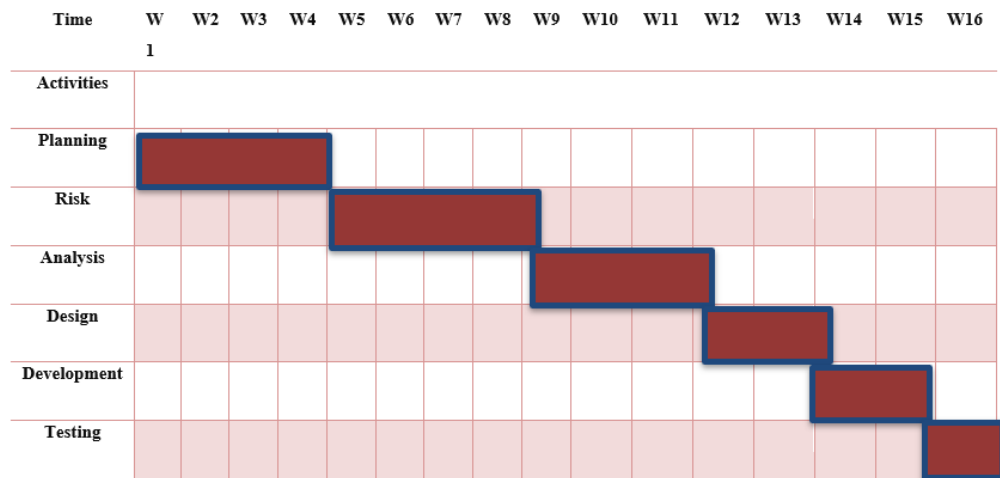


Figure 5.2: Project Schedule Chart

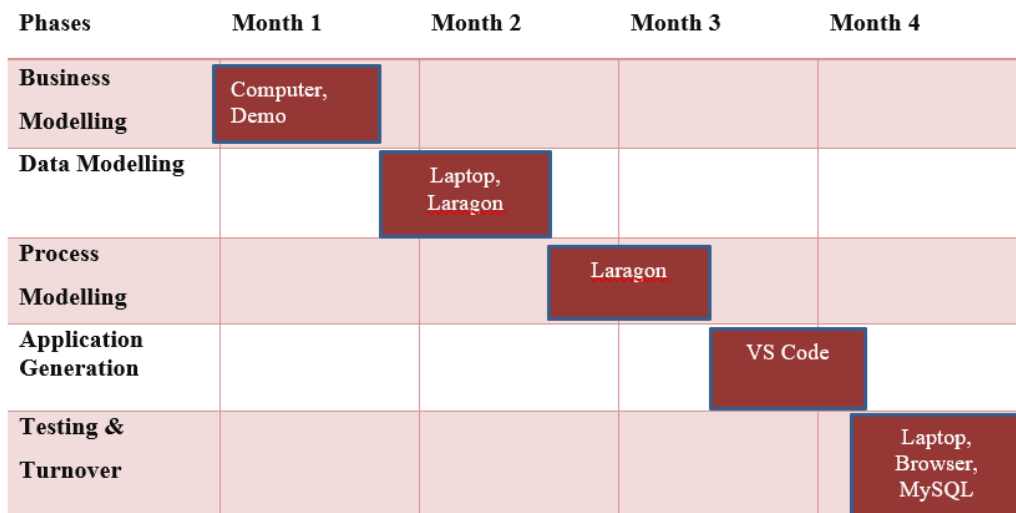


Figure 5.3: Project Schedule Chart

Chapter 6

Analysis Modeling

The analysis modeling chapter shows the behaviour of the project ‘Developing Resort Management System’[7]. The Collaboration diagram and the ER diagram are shown in this chapter.

6.1 Collaboration Diagram

The collaboration diagram is used to show the relationship between the objects in a system. The collaboration diagram is shown in the figure below:

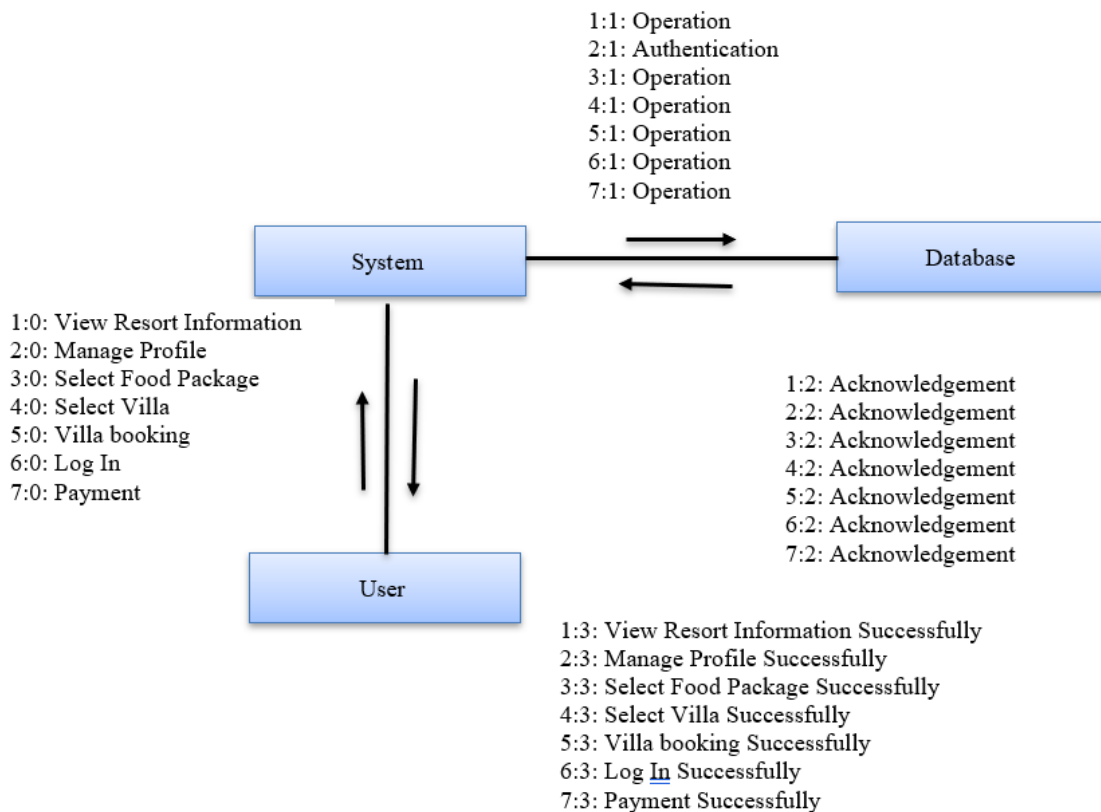


Figure 6.1: Customer Side Collaboration Diagram

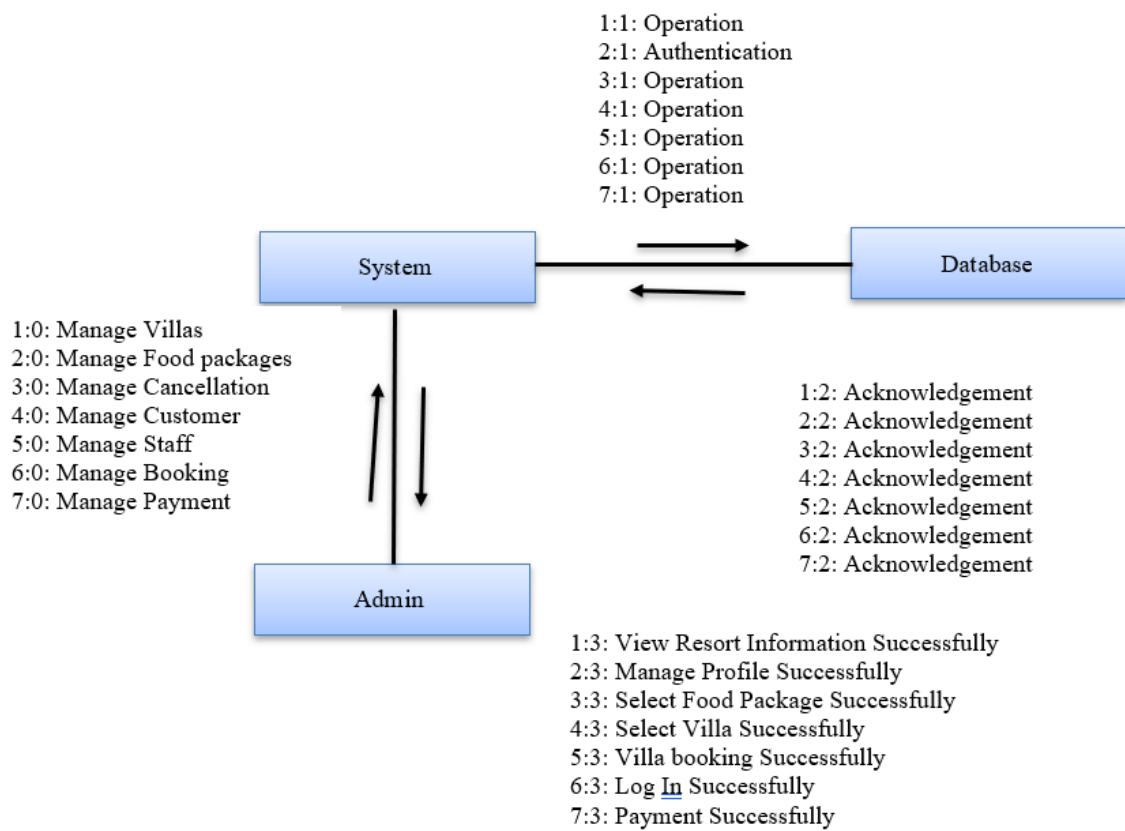


Figure 6.2: Admin Side Collaboration Diagram

6.2 ER Diagram

The entity relationship (ER) diagram of the project ‘Resort Management System’ illustrates how entities of this system relate to each other within the system[5]. It illustrates the logical structure of the database used for this project. Figure 6.3 shows the ER diagram.

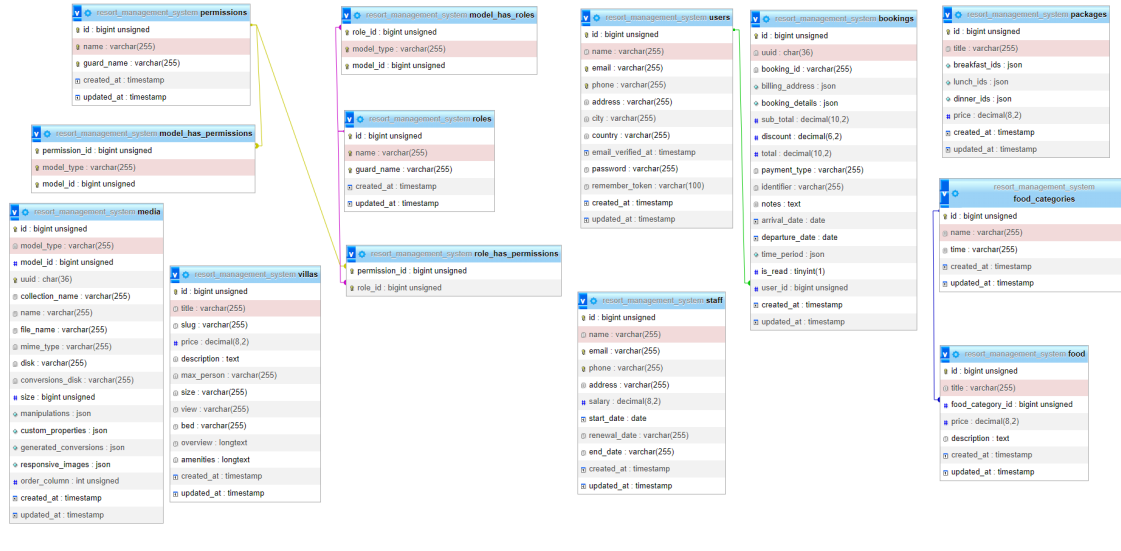


Figure 6.3: Entity Relationship Diagram

6.3 Database Design

A database named resortmanagementsystem is used in this ‘Resort Management System’ project[3]. The tables of the database are shown below: Database table for bookings

		uid	booking_id	billing_address	booking_details	sub_total	discount	total	payment_type	identifier	notes	arrival_date	departure_date	time_period	is_read	user_id	created_at	updated_at
	1	7c558d9-6e20-4661b62b339	40038IA9025	["city": "bd", "name": "Sumaiya Ismail", "email": "..."]	["rooms": ["deluxe-villa": {"id": "3", "days": "2", "p..."}]	32000.00	0.00	32000.00	Bkash	012548	NULL	2023-01-19	2023-01-21	["2023-01-19", "2023-01-20"]	1	3	2023-01-17 19:42:43	2023-01-17 19:58:55
	2	b5ee81eb-38c8-49ba-8c7e-497a108eadd	1255JVL6239	["city": "bd", "name": "Sumaiya Ismail", "email": "..."]	["rooms": ["presidential-villa": {"id": "1", "days": "..."}]	6500.00	0.00	6500.00	Bkash	555	NULL	2023-01-19	2023-01-20	["2023-01-19"]	0	3	2023-01-17 19:48:50	2023-01-17 19:48:50
	3	b99ae51e-276f-4445-4609-1294079c716b	4437UWVF5977	["city": "bd", "name": "Sumaiya Ismail", "email": "..."]	["rooms": ["deluxe-villa-without-pool": {"id": "4", "days": "..."}]	28500.00	0.00	28500.00	Bkash	444	NULL	2023-01-18	2023-01-21	["2023-01-18", "2023-01-19", "2023-01-20"]	0	3	2023-01-17 19:52:05	2023-01-17 19:52:05
	4	tdf11ea4-343c-44ab-92a3-2a973b7b3315	2008YKF2700	["city": "bd", "name": "Sumaiya Ismail", "email": "..."]	["rooms": ["presidential-villa": {"id": "1", "days": "..."}]	18000.00	0.00	18000.00	Bkash	234	NULL	2023-01-31	2023-02-02	["2023-01-31", "2023-02-01"]	0	3	2023-01-17 19:54:31	2023-01-17 19:54:31

Figure 6.4: Database table for bookings

SELECT * FROM `roles`

☐ Profiling

[\[Edit inline \]](#)

[\[Edit \]](#)

[\[Explain SQL \]](#)

[\[Create PHP code \]](#)

[\[Refresh \]](#)

☐ Show all

Number of rows:

25

Filter rows:

Search this table

Sort by key:

None

Extra options

		id	name	guard_name	created_at	updated_at		
☐	Edit	Copy	Delete	1	Admin	web	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit	Copy	Delete	2	Customer	web	2023-01-17 18:32:14	2023-01-17 18:32:14

[↶](#) [↷](#)

☐ Check all

With selected:

[Edit](#)

[Copy](#)

[Delete](#)

[Export](#)

Database for role has permission

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0114 seconds.)

SELECT * FROM `role_has_permissions`

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

permission_id	role_id
---------------	---------

Query results operations

 Create view

Database for staff

SELECT * FROM `staff`

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

idnameemailphoneaddresssalarystart_daterenewal_dateend_datecreated_atupdated_at

Query results operations

Create view

Database for users

SELECT * FROM `users`

Profiling

Edit inline

[[Edit]]

[[Explain SQL]]

[[Create PHP code]]

[[Refresh]]

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

		id	name	email	phone	address	city	country	email_verified_at	password	remember_token	created_at	updated_at		
☐	Edit	Copy	Delete	1	Admin	admin@admin.com	+8801917200115	NUL	NUL	NUL	2023-01-17 18:32:14	\$2y\$10\$92XUNpJ0rOC05bMkY4akEa3R8rC1c/gia2...	03Tbpm6yZvYH55Nrh23Zc5NoaJHKMFVigpG/Cr1NULH5C...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit	Copy	Delete	2	Customer	customer@customer.com	+8801917200116	NUL	NUL	NUL	2023-01-17 18:32:14	\$2y\$10\$92XUNpJ0rOC05bMkY4akEa3R8rC1c/gia2...	NH8ZxD0B	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit	Copy	Delete	3	Sumalya Ismail	sumalya.ismail@bracu.ac.bd	01966575668	bd	bd	bd	NUL	\$2y\$10\$5VMu7CSMujCBAZ0saK0dJvrCLnsE04tHwlmZnH...	M8nb4TegabXB86c0B73LxP4msJCHZhePawY9EzWVJqjJ...	2023-01-17 19:27:30	2023-01-17 19:27:30
☐	Edit	Copy	Delete	4	sumaya	nafjaakterjoa5987@gmail.com	01966575669	NUL	NUL	NUL	NUL	\$2y\$10\$8p0V1e4pm0CJkVntc05uYz945szJqXbNsMuev...	NUL	2023-01-17 20:04:27	2023-01-17 20:04:27

18

Database for villas

SELECT * FROM `villas`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

		id	title	slug	price	description	max_person	size	view	bed	overview	amenities	created_at	updated_at
☐	Edit Copy Delete	1	PRESIDENTIAL VILLA	presidential-villa	4000.00	<span style="font-family: Hind, font-size: 15px; L...	4	35 m2 / 376 R2	Ocen	King-size or twin beds	<h5 class="text-uppercase	<p style="margin-right: 0px; margin-bottom: 0px; m...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit Copy Delete	2	SUPER LUXURY VILLA	super-luxury-villa	5000.00	<span style="font-family: Hind, font-size: 15px; L...	4	35 m2 / 376 R2	Ocen	King-size or twin beds	<h5 class="text-uppercase	<p style="margin-right: 0px; margin-bottom: 0px; m...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit Copy Delete	3	DELUXE VILLA	deluxe-villa	6000.00	<span style="font-family: Hind, font-size: 15px; L...	4	35 m2 / 376 R2	Ocen	King-size or twin beds	<h5 class="text-uppercase	<p style="margin-right: 0px; margin-bottom: 0px; m...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit Copy Delete	4	DELUXE VILLA (WITHOUT POOL)	deluxe-villa-without-pool	7000.00	<span style="font-family: Hind, font-size: 15px; L...	4	35 m2 / 376 R2	Ocen	King-size or twin beds	<h5 class="text-uppercase	<p style="margin-right: 0px; margin-bottom: 0px; m...	2023-01-17 18:32:14	2023-01-17 18:32:14

Check all

With selected

Edit

Copy

Delete

Export

Figure 6.9: Database for villas

Database for food

SELECT * FROM `food`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

		id	title	food_category_id	price	description	created_at	updated_at		
☐	 Edit	 Copy	 Delete	1	ROAST & VEGETABLES 1	2	60.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	 Edit	 Copy	 Delete	2	ROAST & VEGETABLES 2	4	80.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	 Edit	 Copy	 Delete	3	ROAST & VEGETABLES 3	4	75.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	 Edit	 Copy	 Delete	4	ROAST & VEGETABLES 4	1	60.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	 Edit	 Copy	 Delete	5	ROAST & VEGETABLES 5	3	60.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	 Edit	 Copy	 Delete	6	ROAST & VEGETABLES 6	3	75.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	 Edit	 Copy	 Delete	7	ROAST & VEGETABLES 7	3	80.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	 Edit	 Copy	 Delete	8	ROAST & VEGETABLES 8	4	85.00	Egg Beaters scrambled with slow-roasted tomatoes, ...	2023-01-17 18:32:14	2023-01-17 18:32:14

Figure 6.10: Database for food

Database for food

SELECT * FROM `food\_categories`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

		id	name	time	created_at	updated_at
☐	Edit Copy Delete	1	Breakfast	07:00 AM - 12:00 PM	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit Copy Delete	2	Lunch	01:00 PM - 04:00 PM	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit Copy Delete	3	Dinner	07:00 PM - 10:00 PM	2023-01-17 18:32:14	2023-01-17 18:32:14
☐	Edit Copy Delete	4	Drink	All Time	2023-01-17 18:32:14	2023-01-17 18:32:14

Figure 6.11: Database for food categories

Database for media

SELECT * FROM `media`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

		id	model_type	model_id	uuid	collection_name	name	file_name	mime_type	disk	conversions_disk	size	manipulations
☐	Edit Copy Delete	1	App\Models\Villa		95953431-680e-4673-9967-16b15e32aacd	villa	257276599	257276599.jpg	image/jpeg	public	public	111242	
☐	Edit Copy Delete	2	App\Models\Villa		33278603-406a-4440-a3ca-273a9eacdaf	villa	d1	d1.jpg	image/jpeg	public	public	91967	
☐	Edit Copy Delete	3	App\Models\Villa		5d3359d8-19a2-407b-b3ea-aaf6c9a59d7	villa	diosaskluxuryvillas_kefalonía_villa_outside13	diosaskluxuryvillas_kefalonía_villa_outside13.jpg	image/jpeg	public	public	370546	
☐	Edit Copy Delete	4	App\Models\Villa		c74d9ab4-26cd-4179-e944-7620241b1477	villa	d1	d1.jpg	image/jpeg	public	public	91967	
☐	Edit Copy Delete	5	App\Models\Villa		c28219ea-a650-486d-b05c-0d68ba20dae	villa	diosaskluxuryvillas_kefalonía_villa_outside13	diosaskluxuryvillas_kefalonía_villa_outside13.jpg	image/jpeg	public	public	370546	
☐	Edit Copy Delete	6	App\Models\Villa		409d0432-3378-48e9-9a6f-2cc87b23bc49	villa	1	1.jpg	image/jpeg	public	public	638780	
☐	Edit Copy Delete	7	App\Models\Villa		fca1d225-f696-4a1c-a3db-798739162dc	villa	diosaskluxuryvillas_kefalonía_villa_outside13	diosaskluxuryvillas_kefalonía_villa_outside13.jpg	image/jpeg	public	public	370546	

Figure 6.12: Database for media

Database for model has permissions

SELECT * FROM `model\_has\_permissions`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

permission_id

model_type

model_id

Query results operations

Figure 6.13: Database for model has permissions

Database for model has roles

SELECT * FROM `model\_has\_roles`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

			role_id	model_type	model_id	
☐	 Edit	 Copy	 Delete	1	App\Models\User	1
☐	 Edit	 Copy	 Delete	2	App\Models\User	2
☐	 Edit	 Copy	 Delete	2	App\Models\User	3
☐	 Edit	 Copy	 Delete	2	App\Models\User	4

 ☐ Check all

With selected:

 Edit

 Copy

 Delete

 Export

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Figure 6.14: Database for model has roles

Database for packages

SELECT * FROM `packages`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

		id	title	breakfast_ids	lunch_ids	dinner_ids	price	created_at	updated_at
☐	Edit Copy Delete	1	Regular	["4"]	["1"]	["6"]	2500.00	2023-01-17 19:05:37	2023-01-17 19:05:37
☐	Edit Copy Delete	2	Standard	["4"]	["1", "9"]	["5", "7", "10"]	5000.00	2023-01-17 19:06:18	2023-01-17 19:06:18

↑

☐ Check all

With selected:

Edit

Copy

Delete

Export

Figure 6.15: Database for packages

Database for password resets

SELECT * FROM `password\_resets`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

email

token

created_at

Query results operations

Figure 6.16: Database for password resets

Database for permissions

SELECT * FROM `permissions`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

id

name

guard_name

created_at

updated_at

Query results operations

Figure 6.17: Database for permissions

21

6.4 User Interfaces

User interfaces are showing the front-end application view of the project ‘Resort Management System’ to which users interact in order to use this system[9]. The user interfaces of this project are shown in the figures below:

Home page

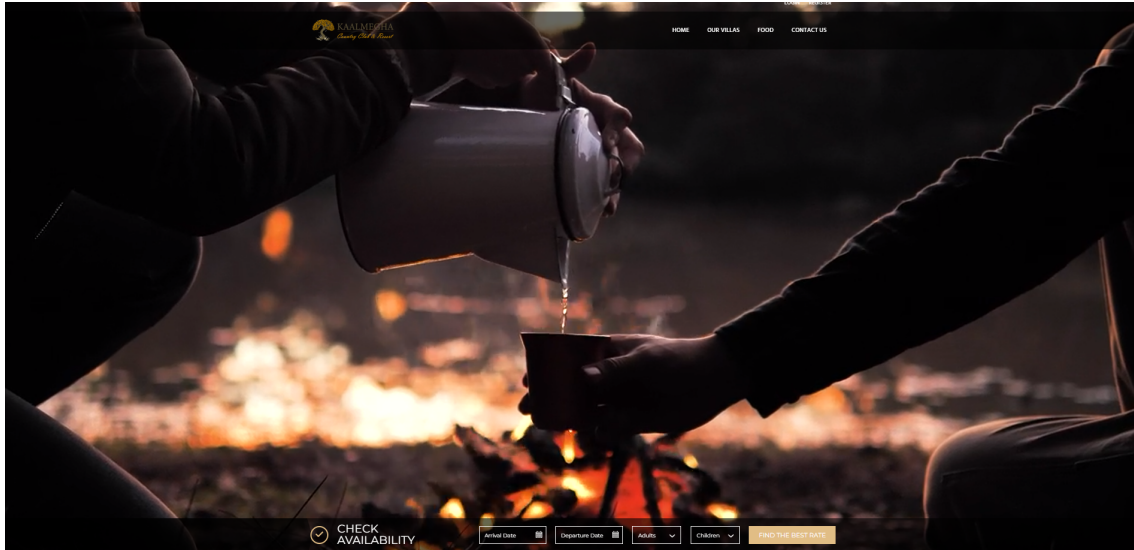


Figure 6.18: Home page

Villas and Rates page

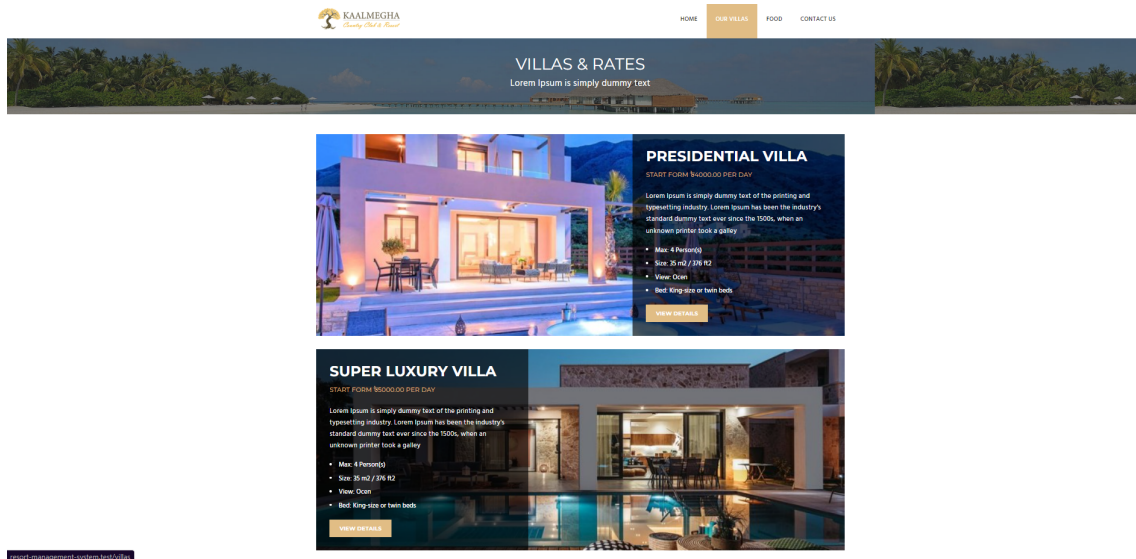


Figure 6.19: Villas and Rates page

Food page

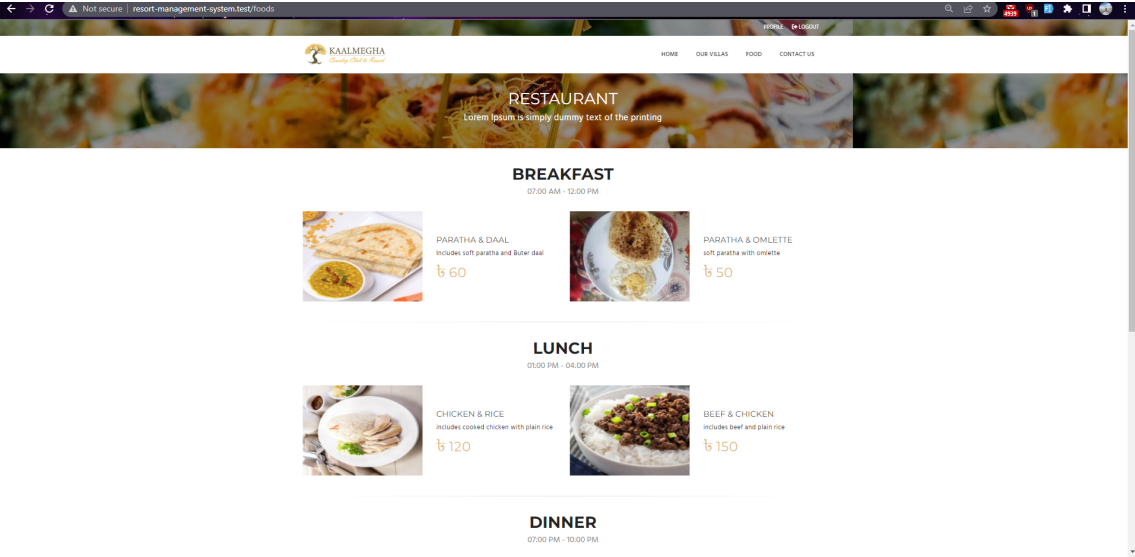


Figure 6.20: Food page

Room page

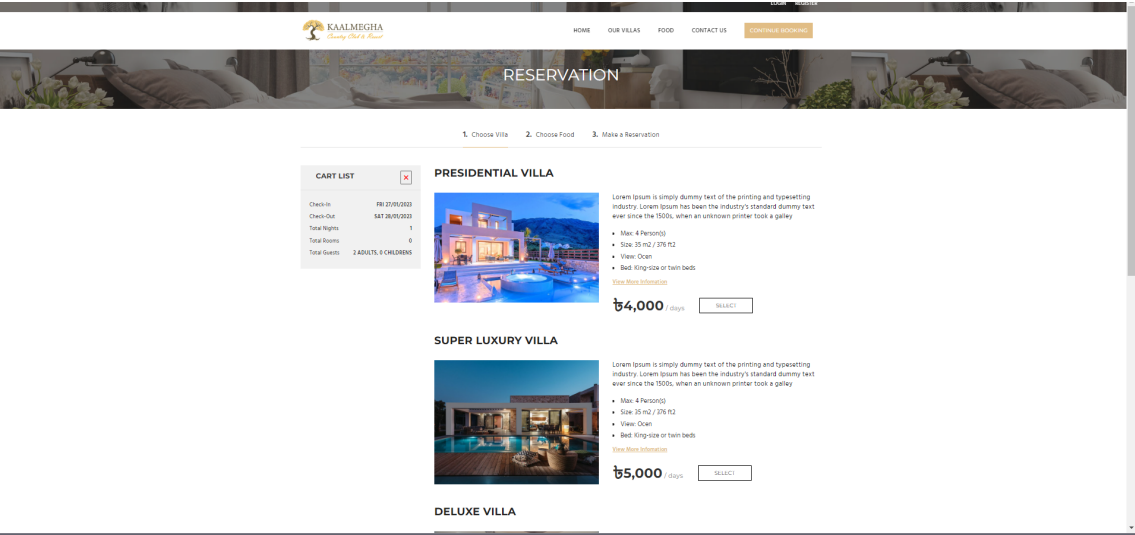


Figure 6.21: Room page

Room Selection page

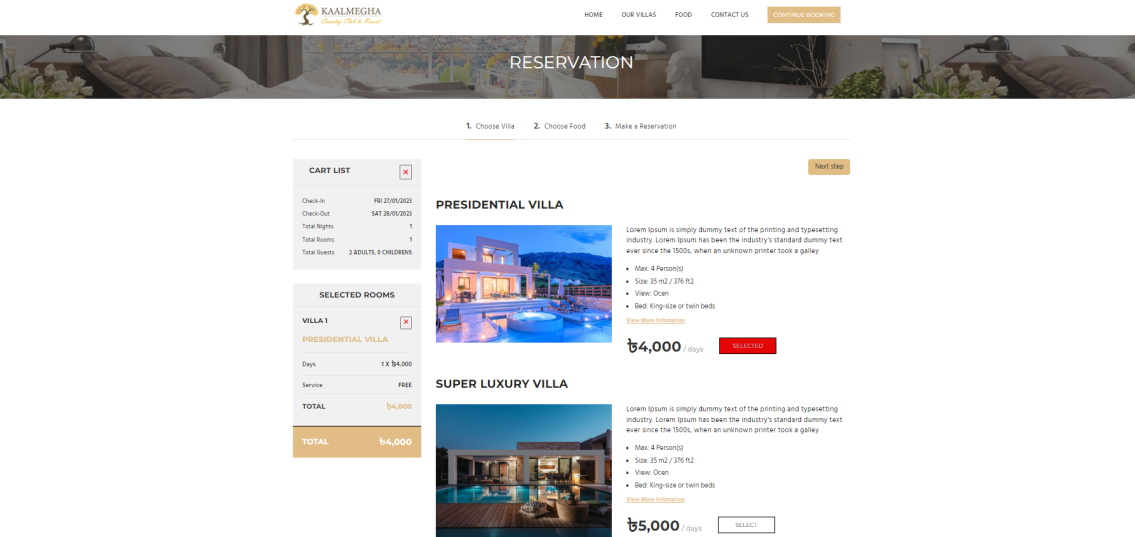


Figure 6.22: Room Selection page

Food Package page

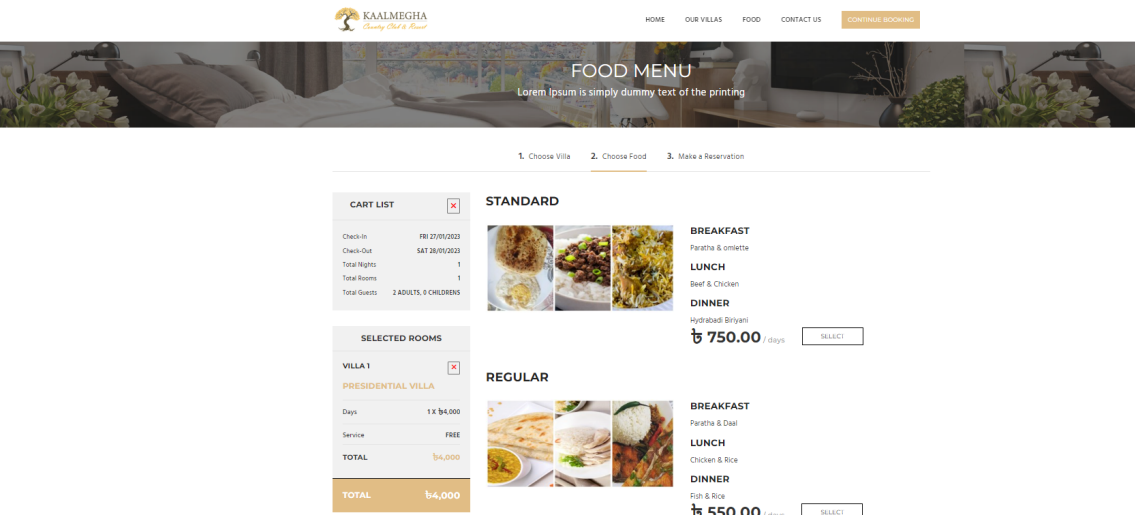


Figure 6.23: Food Package page

Food Selection page

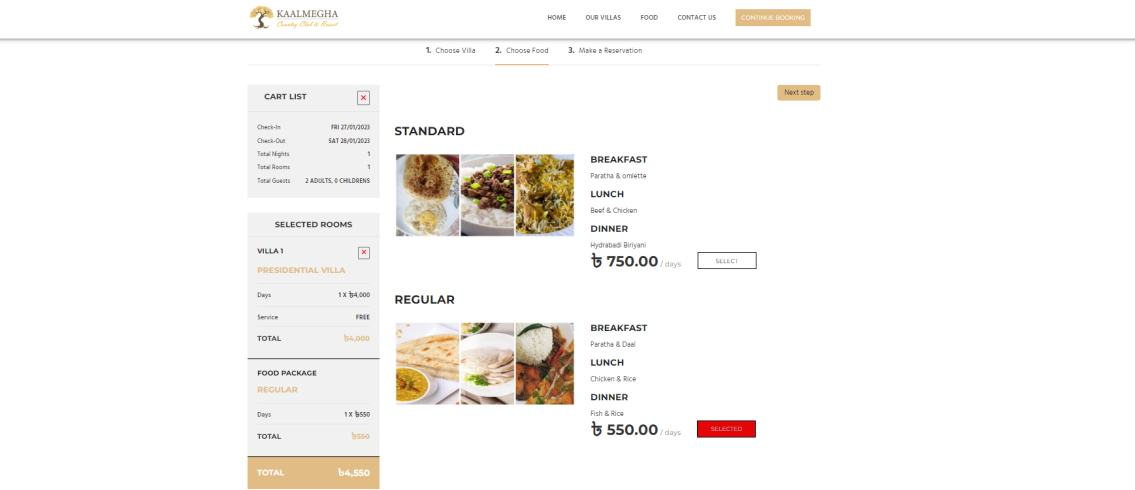


Figure 6.24: Food Selection page

Customer Registration page

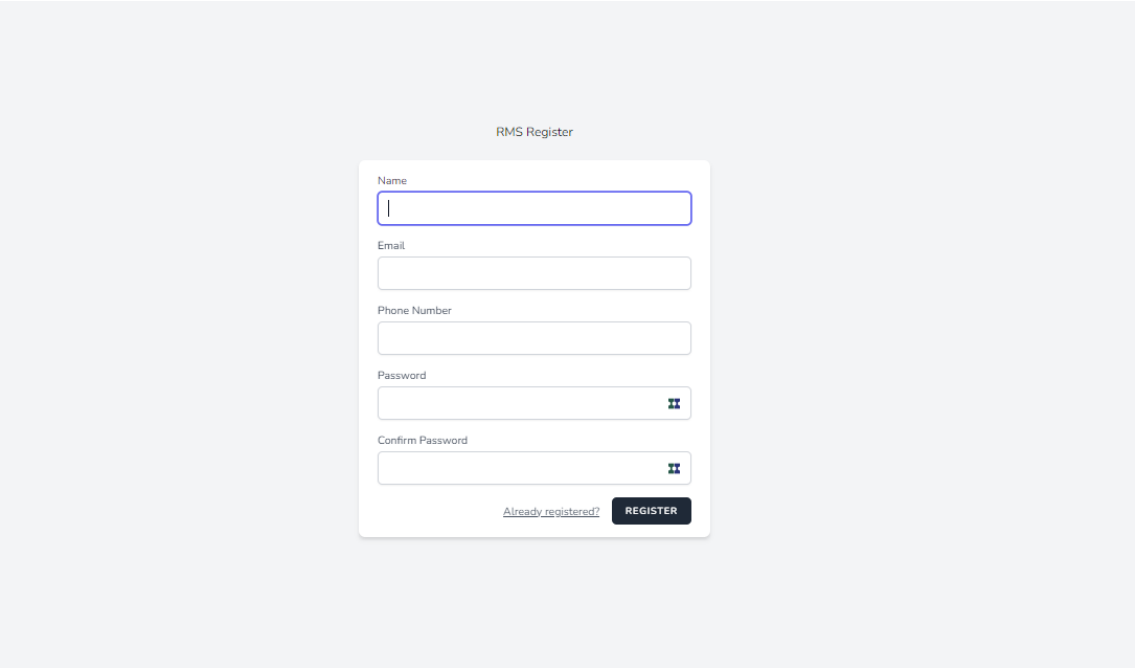


Figure 6.25: Customer Registration page

Customer Log In page

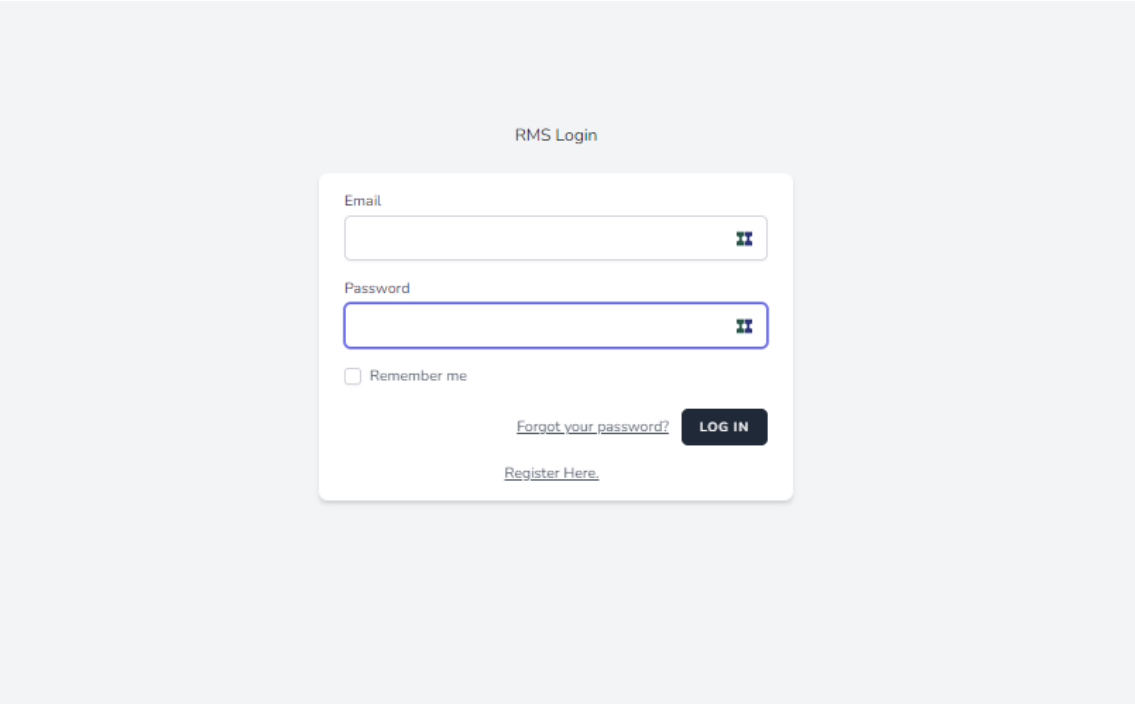


Figure 6.26: Customer Log In page

After Logging In Billing Details page

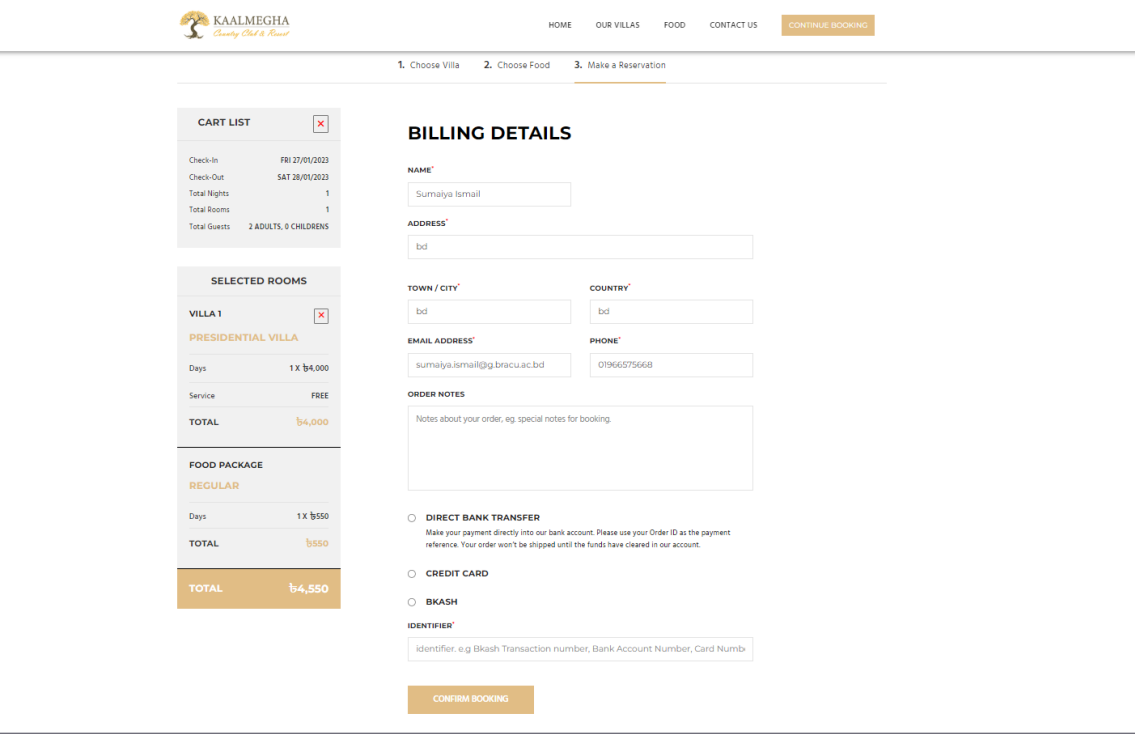


Figure 6.27: After Logging In Billing Details page

Booking List after confirming Booking page



HOME OUR VILLAS FOOD CONTACT US

BOOKINGS

SUMAIYA ISMAIL

Profile

Booking

BOOKING'S LIST

SL	Booking ID	Customer's Name	Arrival Date	Departure Date	Total	Action
1	4003SIA9025	Sumaiya Ismail	19 Jan, 2023	21 Jan, 2023	32,000	
2	1255JVL6239	Sumaiya Ismail	19 Jan, 2023	20 Jan, 2023	6,500	
3	4437JWF5977	Sumaiya Ismail	18 Jan, 2023	21 Jan, 2023	28,500	
4	2008YKFZ700	Sumaiya Ismail	31 Jan, 2023	02 Feb, 2023	18,000	
5	2629DJ5415	Sumaiya Ismail	27 Jan, 2023	28 Jan, 2023	4,550	

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admin@admin.com

SIGN UP





ADDRESS WILL BE HERE
01771383492 65

PAGE SITE

Guest Book
Gallery
Restaurant
Event

ABOUT

About
Contact Us

TRIPADVISOR

Now with hotel reviews by



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Figure 6.28: Booking List after confirming Booking page

Profile page



HOME OUR VILLAS FOOD CONTACT US

PROFILE

SUMAIYA ISMAIL

Profile

Booking

PROFILE DETAILS

NAME

Sumaiya Ismail

EMAIL ADDRESS

sumaiya.ismail@g.bricu.ac.bd

PHONE

01966575668

ADDRESS

bd

TOWN / CITY

bd

COUNTRY

bd

NEWS & OFFERS

admin@admin.com

SIGN UP





ADDRESS WILL BE HERE
01771383492 65

PAGE SITE

Guest Book
Gallery
Restaurant
Event

ABOUT

About
Contact Us

TRIPADVISOR

Now with hotel reviews by



Figure 6.29: Profile page

User list page

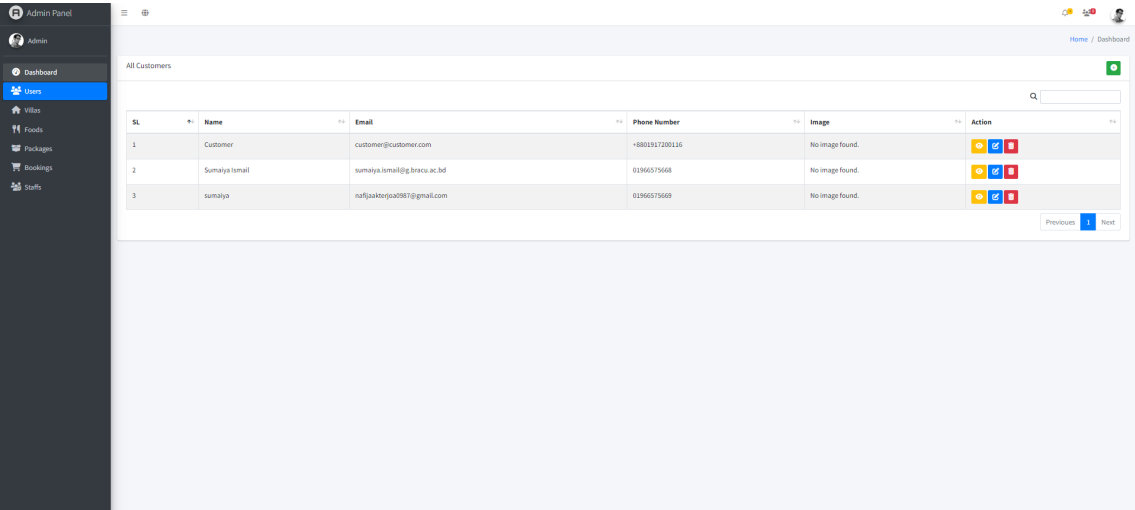


Figure 6.30: User list page

Villa list page

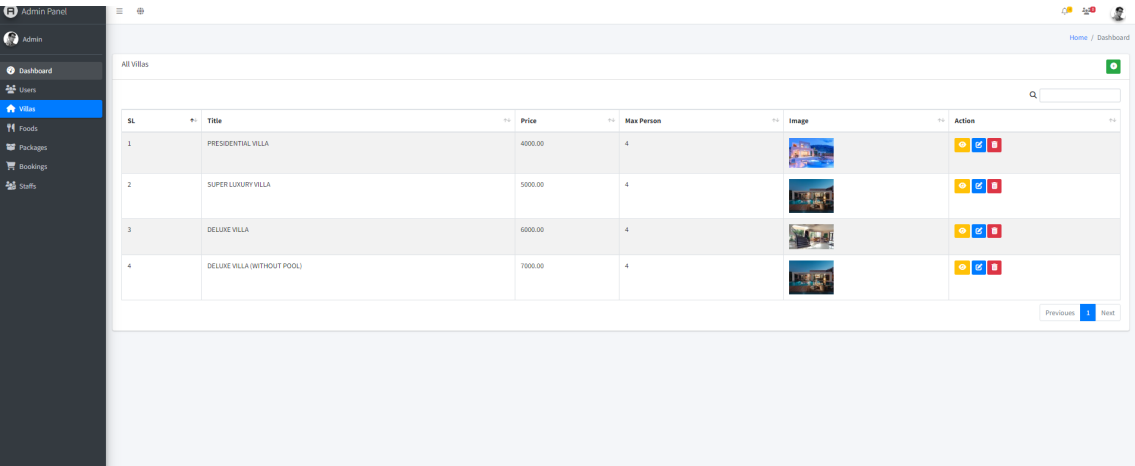


Figure 6.31: Villa list page

Food List page

Admin Panel

Admin

Dashboard

Users

Villas

Foods

Packages

Bookings

Staffs

Home / Dashboard

All foods

SL	Title	Category	Price	Image	Action
1	Hydrabadi Biryani	Dinner	600.00		
2	Fish & Rice	Dinner	400.00		
3	Beef & Chicken	Lunch	150.00		
4	Chicken & Rice	Lunch	120.00		
5	Paratha & Omelette	Breakfast	50.00		
6	Paratha & Dosa	Breakfast	60.00		

Previous 1 Next

Figure 6.32: Food List page

Packages page

Admin Panel

Admin

Dashboard

Users

Villas

Foods

Packages

Bookings

Staffs

Home / Dashboard

All packages

SL	Title	Price	Image	Action
1	Standard	750.00		
2	Regular	550.00		

Previous 1 Next

Figure 6.33: Packages page

Bookings and email sending page

Admin Panel

Admin

Dashboard

Users

Villas

Foods

Packages

Bookings

Staffs

Home / Dashboard

Bookings List

SL	Booking ID	Customer's Name	Arrival Date	Departure Date	Total	Action
1	26290J15415	Sumaiya Ismail	27 Jan, 2023	28 Jan, 2023	4,550	
2	2008YK72700	Sumaiya Ismail	31 Jan, 2023	02 Feb, 2023	18,000	
3	4431UWF5977	Sumaiya Ismail	18 Jan, 2023	21 Jan, 2023	28,500	
4	1255JLE6239	Sumaiya Ismail	19 Jan, 2023	20 Jan, 2023	6,500	
5	40035A8025	Sumaiya Ismail	19 Jan, 2023	21 Jan, 2023	32,000	

Previous 1 Next

Figure 6.34: Bookings and email sending page

Booking Notification in Admin Panel page

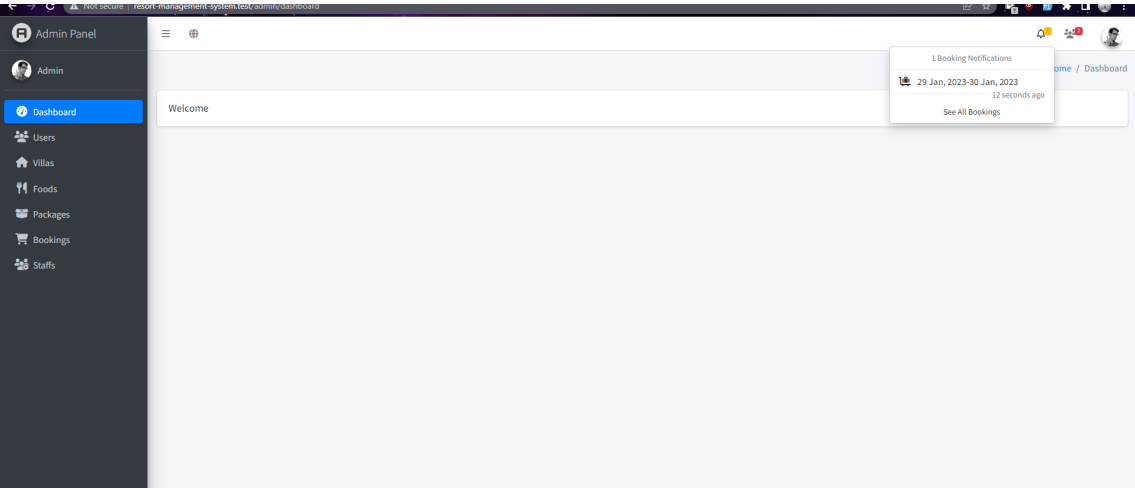


Figure 6.35: Booking Notification in Admin Panel page

Staff List page

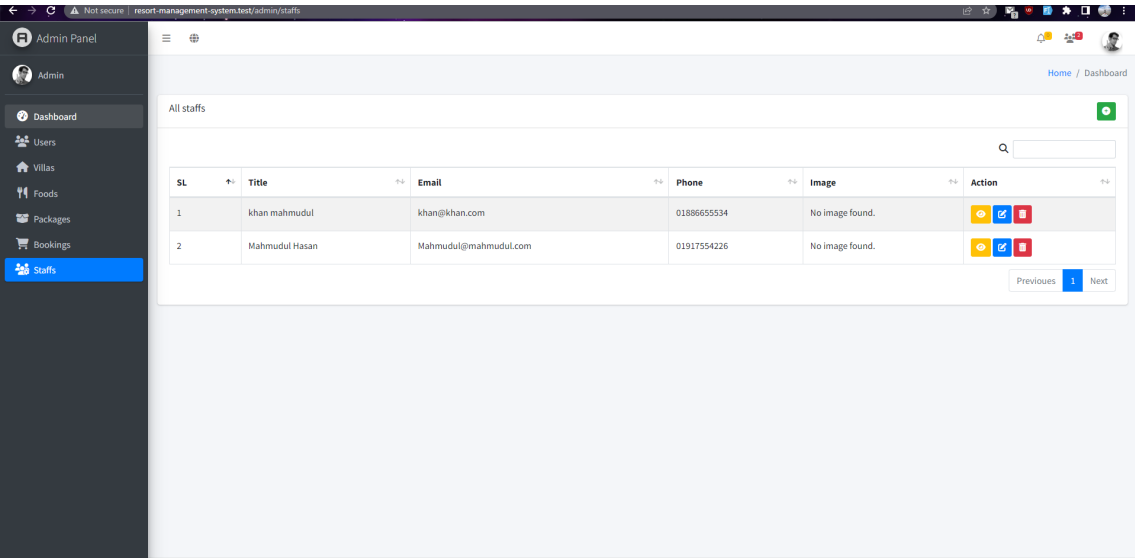


Figure 6.36: Staff List page

Show User page

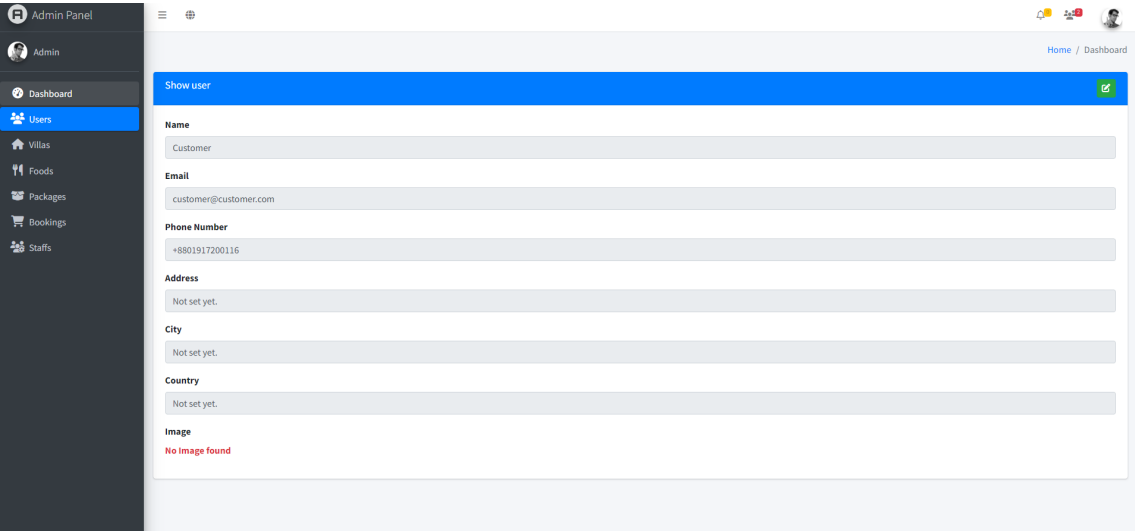


Figure 6.37: Show User page

Edit User page

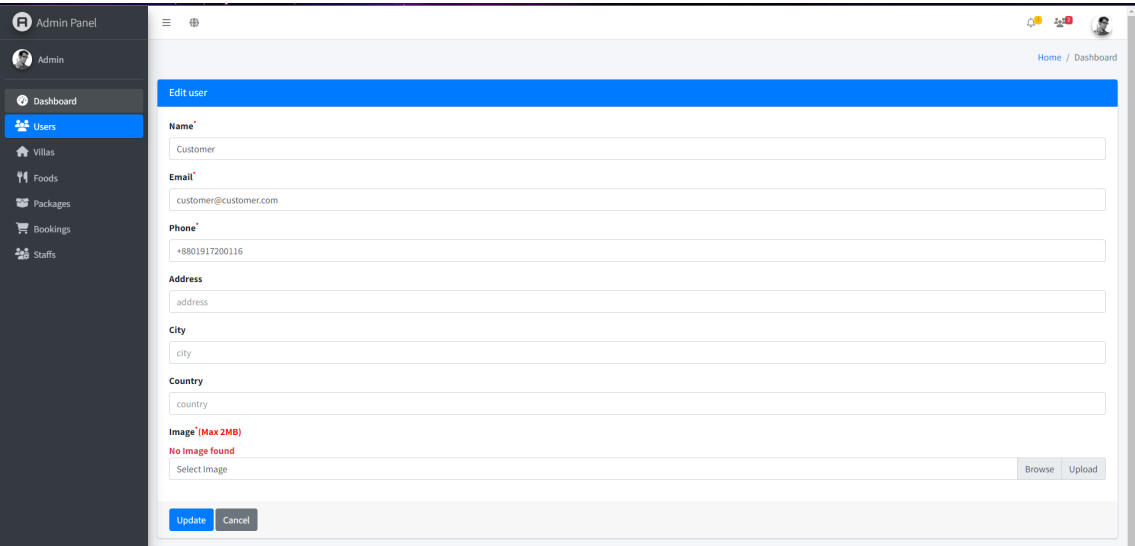


Figure 6.38: Edit User page

Show Villa page



Figure 6.39: Show Villa page

Edit Villa page

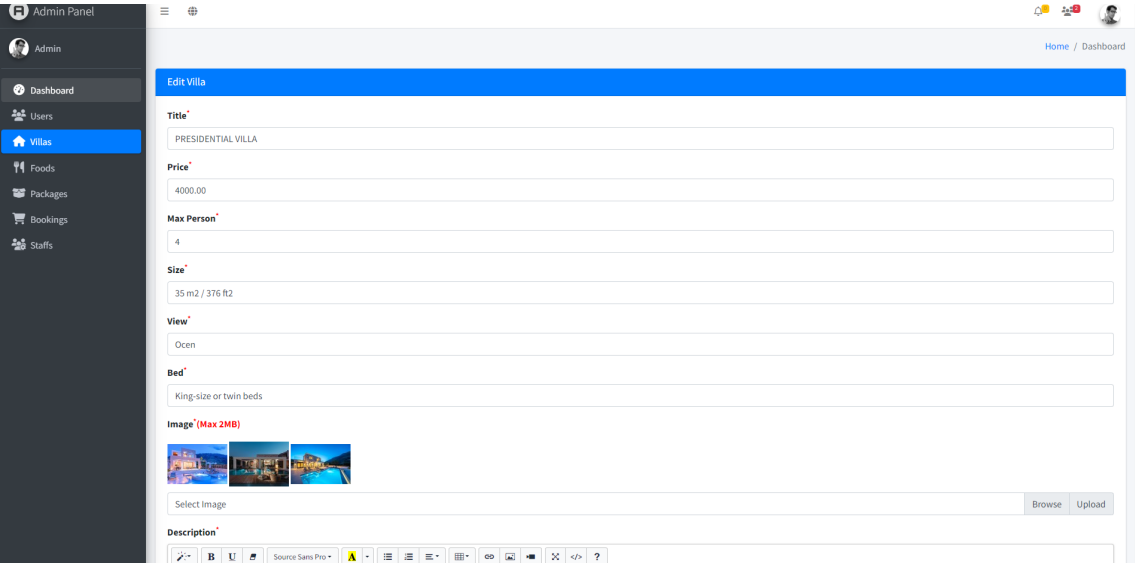
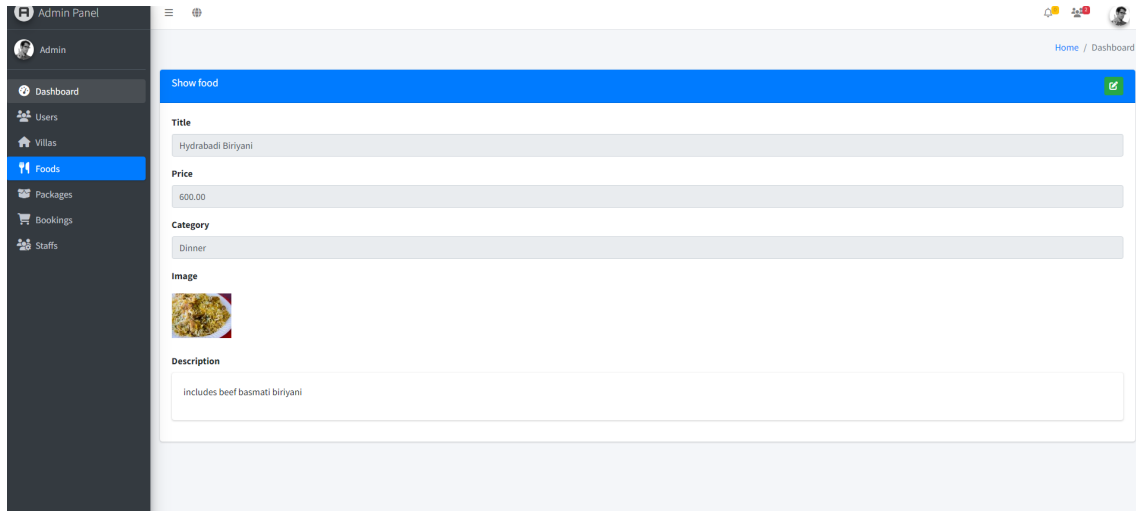


Figure 6.40: Edit Villa page

Show Food page



Admin Panel

Admin

Dashboard

Users

Villas

Foods

Packages

Bookings

Staffs

Home / Dashboard

Show food

Title

Hydrabadi Biryani

Price

600.00

Category

Dinner

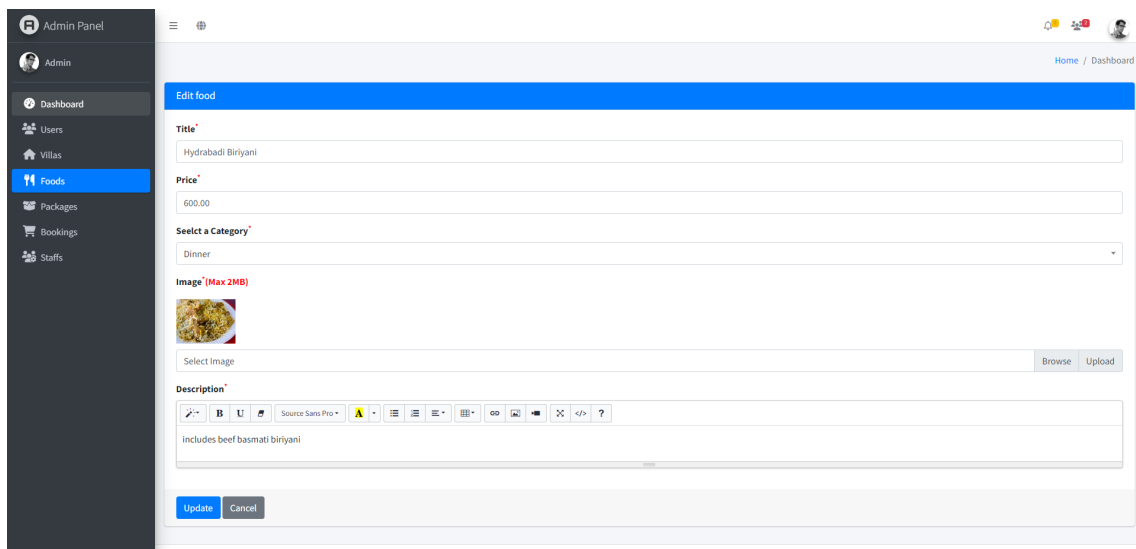
Image

Description

Includes beef basmati biriyani

Figure 6.41: Show Food page

Edit Food page



Admin Panel

Admin

Dashboard

Users

Villas

Foods

Packages

Bookings

Staffs

Home / Dashboard

Edit food

Title*

Hydrabadi Biryani

Price*

600.00

Select a Category*

Dinner

Image* (Max 2MB)

Select Image

Browse Upload

Description*

Includes beef basmati biriyani

Update Cancel

Figure 6.42: Edit Food

Show Package page

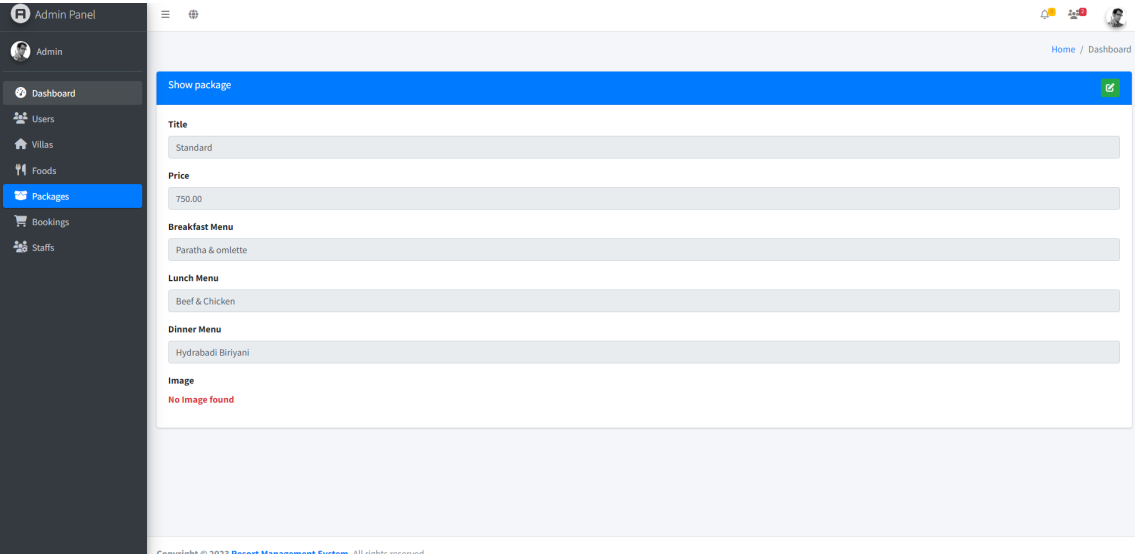


Figure 6.43: Show Package page

Edit Package page

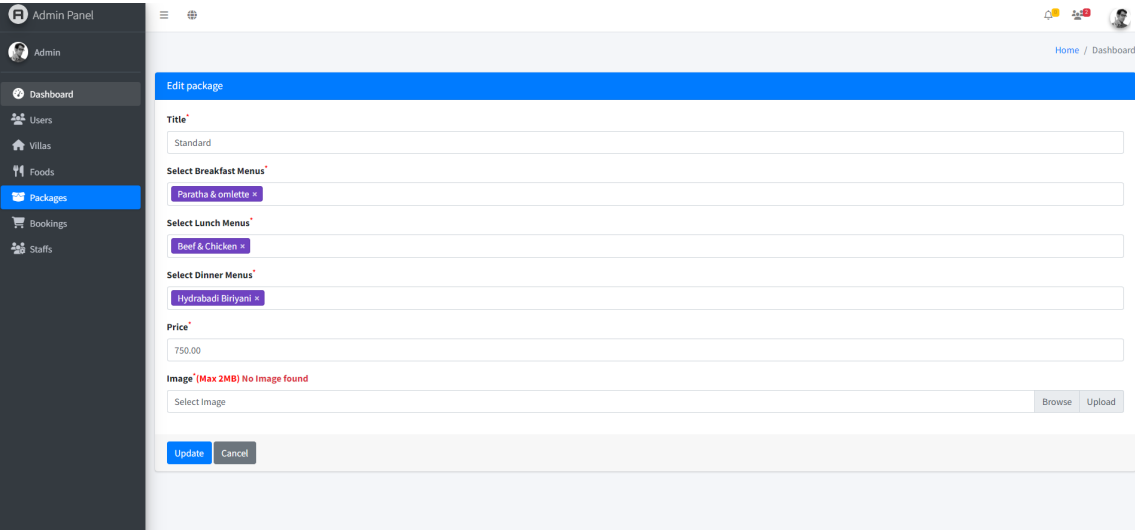


Figure 6.44: Edit Package page

Booking Details page

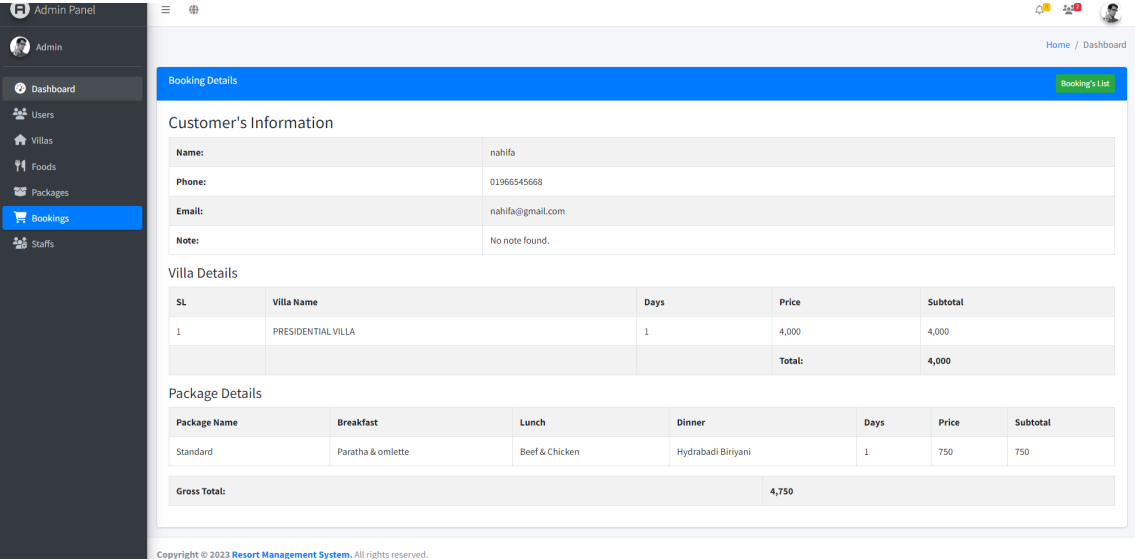


Figure 6.45: Booking Details page

Notification of Staff Contract Expiration page

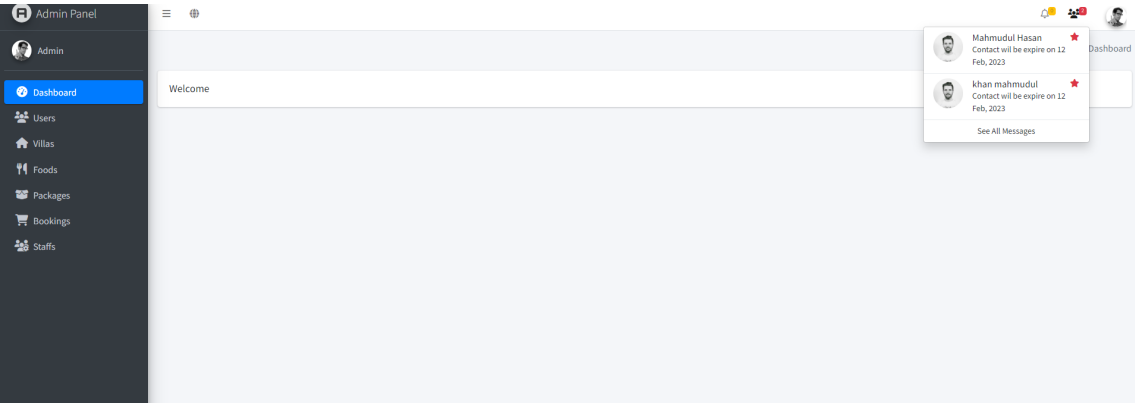


Figure 6.46: Notification of Staff Contract Expiration page

Chapter 7

Project Estimation

This project estimation chapter is showing the costs for the project ‘Resort Management System’[2]. It includes Personal Cost Estimation, Hardware Cost Estimation and Account Table.

7.1 Personnel Cost Estimation

Number of days in a year = 365

Number of government holidays in a year = 24

Number of weekly holidays in a year = 77

Total number of working days to develop the project = $365 - (77 + 24) = 264$ days

Total number of working days per months to develop the project = $264 / 12 = 22$ days

Organization working hours per day = 8 hours

Organization working hours per month = 176 hours

Type	No. of Members	Months	Salary
System Analyst	1	4	50,000.00
Developer	1	4	28,000.00
Total			78,000.00

Table 7.1: Hardware and Software Requirement

7.2 Hardware Cost Estimation

The percentage of year is = $1 / 15 = 6.67$

The depreciation cost of Computer is = $(50,000 * 0.0667) = 3,335.00$

The depreciation cost of Scanner is = $(2000 * 0.0667) = 134.40$

The depreciation cost of Printer is = $(4000 * 0.0667) = 266.80$

7.3 Account Table

Here lies the calculations of all particulars that has been used to develop ‘Resort Management System’. Here, we will see the salary of the developers, hardware cost

and other costs.

Particulars	TK
System Analyst	50,000.00
Developer	28,000.00
Computer	3,335.00
Scanner	134.40
Printer	266.80
Furniture	5,000.00
House Rent	6,000.00
Electricity bill	1,000.00
Vehicle cost	500.00
Extra	1,000.00
Total Cost	95,236.20 /-

Table 7.2: Hardware and Software Requirement

Chapter 8

Quality Management

The system quality management and the planning for the software quality management of the project ‘Resort Management System’ is given in the chapter quality management[7].

8.1 Software Quality Management

Software quality management for the project ‘Resort Management System’ ensures that the required level of quality is achieved by submitting improvements to the product development process. The quality of this software is measured and the process is improved until the proper quality level is achieved. It is measured by several variables. This software quality management aims to manage the quality of this ‘Resort Management System’ software and its development process.

8.2 Software Quality Management Processes

Software quality management of the project ‘Resort Management System’ involves the application of specific quality processes and checking that these planned processes have been followed[7]. The processes involved in the software quality management of this software. They are:

- Quality Planning
- Quality Assurance
- Quality Control

8.2.1 Quality Planning

Quality planning is performed by first selecting the applicable procedures and standards for this project ‘Resort Management System’ and then modifying these as required. All the important factors that contribute the customer requirements are explained in this development.

8.2.2 Quality Planning

Quality planning is performed by first selecting the applicable procedures and standards for this project ‘Resort Management System’ and then modifying these as required. All the important factors that contribute the customer requirements are explained in this development.

8.2.3 Quality Control

Quality control for the project ‘Resort Management System’ ensured that the software development team implemented procedures and standards. Project result is monitored to ensure that improve while identifying ways the overall quality according to quality standards.

Chapter 9

Coding

After the requirements of the project ‘Resort Management System’ are clearly understood, the design and specifications are implemented in the source code. Coding is one of the important approaches of this development.

9.1 Frontend Coding

Frontend development of this project ‘Resort Management System’ manages everything that users visually see first in their browser. In this project, HTML, CSS, Bootstrap, JQuery, JavaScript etc. are used for the frontend coding. These are responsible for the look and feel of this system[3].

9.2 Backend Coding

Backend development for this project ‘Resort Management System’ refers to the server side of this system and everything that communicates between the database and the browser. Laravel 9 MVC is used for the backend coding.

Chapter 10

Testing

Testing is performed in the project ‘Resort Management System’ with the aim of finding errors. This testing results are given in this testing chapter. These testings are done by evaluating the software against requirements gathered from users and system specifications[8]. There are various types of testings available to test a software. In this chapter two types of testings are included. They are:

- White Box Testing
- Black Box Testing

10.1 White Box Testing

White box testing is used in the project ‘Resort Management System’ to test this software’s internal coding and infrastructure. It focuses primarily on strengthening security, the flow of inputs and outputs through the application, and improving design and usability of the system.

10.2 Black Box Testing

In the project ‘Resort Management System’, the black box testing techniques are used to test the functionality of the software without looking at the internal code structure, implementation details and knowledge of internal paths of the software. This testing is done based on the software requirements and specifications.

10.3 Testing Design

Test design is a process that defines how testing has to be done. It involves the process of identifying the testing techniques, test scenarios, test cases, test data, and expected test results. It identifies the test cases by elaborating the test conditions identified in test analysis phase or from test basis. We need to have very specific inputs, steps and data for each test case that we create during test designing. Test designing requires detailed analysis and understanding of requirements. Test Analysts need to first apply static testing techniques like reviews, walkthrough to understand the requirements in detail. Here, a table is shown with the scenario,

inputs, desired outputs, actual outputs and verdict. Testing scenarios of the project ‘Resort Management System’ are given below:

Testing Scenario No: 1	
Scenario	Admin login
Input(s)	Email, Password
Desired Output(s)	If email and password are valid, get access to admin dashboard
Actual Output(s)	Admin gets access to the admin dashboard
Verdict	For login, system worked perfectly
Testing Scenario No: 2	
Scenario	Admin can add Food
Input(s)	Food type, Title, Price, Details
Desired Output(s)	If all information is given, new food added
Actual Output(s)	New Food is created
Verdict	For adding new Food Menu, system worked perfectly
Testing Scenario No: 3	
Scenario	Admin can add Villas
Input(s)	Villa Type, Description, Price
Desired Output(s)	If all information is given, new villa added
Actual Output(s)	A new villa is added
Verdict	For adding room, system worked perfectly
Testing Scenario No: 4	
Scenario	User can reserve room
Input(s)	Email, Contact No, Details, Payment via online
Desired Output(s)	If all information is given, Villa is reserved
Actual Output(s)	Villa is reserved
Verdict	For reservation, system worked perfectly

Table 10.1: Testing Design

Chapter 11

Conclusion

The conclusion about the project ‘Resort Management System’ is given in this conclusion chapter. The limitation and future plan of this project is also given in this chapter.

11.1 Conclusion

Bangladesh tourism industry is vastly spreading. So new resorts are developing and everyone wants to check and then book the place they want to accommodate for relaxation for some days. The project ‘Resort Management System’ is a web based system for reserving Resort any time from any place[2]. With time, new features are added. Overall, the system performs well, and while it does not include all of the features that may have been desired, it lives up to initial expectations. The majority of features that are included work flawlessly and the errors that do exist are minor or graphical. Overall, it is a good system to help people.

11.2 Limitation

We tried to make this project error less as far as possible and successful in every step. There are some limitations as well. I am working on the payment as I need the API key. Because of the time limit, I could not work on the invoice generation and report generation. The staff member of the resort does not receive any email prior one month of their contract expiration. I will be working on this as well.

11.3 Future Plan

I have some future plan for this project as well. I will generate the report very soon. I also want to add the live chat feature so that customers can get support anytime for the resort for their query. Also this system is now developed only for Bangladesh. In future, all the countries of the world will be integrated in this system.

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