8.3 Testing

8.3.1 Test Strategy

The testing strategies, which are implemented in the Car Rental System, are as follows.

Black Box Testing
Definition:

Black Box Testing is a software testing technique where the tester evaluates the functionality of an application **without looking at the internal code, logic, or structure**. It mainly focuses on input-output validation, usability, and system behavior.

Equivalence Partitioning (Equivalence Class Testing)
Definition:

Equivalence Partitioning is a technique used in Black Box Testing where input values are divided into different **equivalence classes** (valid and invalid groups). The goal is to **test only one value from each class**, as all values within a class are expected to behave similarly.

How it Works:

- The input domain is divided into **valid** and **invalid partitions**.
- Instead of testing **every possible input**, we test **one representative value** from each partition.

8.3.2 Test Cases and Results

1. Login

Sr No.	Field	Input	Excepted Output	Actual Output	Result
1	UserName, Password	thakkar2995@gmail.com 12345678	Login successfully And redirect to the dashboard	Login successful And redirect to the dashboard	Pass
2	UserName, Password	Thakkar295gmail.com 123456	Invalid data Login not successful	Invalid data Login not successful	Pass
3	UserName, Password		Empty Field not allowed.	Empty Field not allowed.	Pass

2. Registration

Sr No.	Field	Input	Excepted Output	Actual Output	Result
1	FirstName	Om	User register Successfully	User register Successfully	Pass
		3244	First Name contains only alphabets	First Name contains only alphabets	Pass
			Empty Field not allowed.	Empty Field not allowed.	Pass
2	LastName	Thakkar	User register Successfully	User register Successfully	Pass
		2455	Last Name contains only alphabets	Last Name contains only alphabets	Pass
			Empty Field not allowed.	Empty Field not allowed.	Pass
3	Email	thakkar2995@gmail.com	User register Successfully	User register Successfully	Pass
		abcd	Please enter a valid email	Please enter a valid email	Pass
			Empty Field not allowed.	Empty Field not allowed.	Pass
4	Mobile Number	9974090535	User register Successfully	User register Successfully	Pass
		3456453	Invalid Mobile Number	Invalid Mobile Number	Pass
			Empty Field not allowed.	Empty Field not allowed.	Pass
5	Password	12345678	User register Successfully	User register Successfully	Pass
		1234	Please enter a value between 8 and 20 characters long.	Please enter a value between 8 and 20 characters long.	Pass
			Empty Field not allowed.	Empty Field not allowed.	Pass
6	Confirm Password	12345678	User register Successfully	User register Successfully	Pass
		1234	Password and Confirm password does not match	Password and Confirm password does not match	Pass
6	All Field Null	All field Null	Data not added to database	Data not added to database	Please insert Data

Register

👤 3244

Please enter valid name

👤 2455

Please enter valid name

✉ b dd d

Please enter a valid email address.

📞 3456453

Please enter a value mobile number.

🔒 •••••••

Please enter a value between 8 and 20 characters long.

🔒 ••••••••|

Password and Confirm password does not match

Register

3. Tour Package Booking

Sr No.	Field	Input	Excepted Output	Actual Output	Result
1	Name	Om Thakkar	Data added successfully and Redirect to payment page	Data added successfully and Redirect to payment page	Pass
		3244	Name contains only alphabets	Name contains only alphabets	Pass
2	Email	thakkar2995@gmail.com	Data added successfully and Redirect to payment page	Data added successfully and Redirect to payment page	Pass
		abcd	Please enter a valid email	Please enter a valid email	Pass
3	Mobile Number	9974090535	Data added successfully and Redirect to payment page	Data added successfully and Redirect to payment page	Pass
		3456453	Invalid Mobile Number	Invalid Mobile Number	Pass
4	All Field Null	All field Null	Data not added to database	Data not added to database	Please insert Data

4. Contact Us

Sr No.	Field	Input	Excepted Output	Actual Output	Result
1	Name	Om Thakkar	Data Sent successfully.	Data Sent successfully.	Pass
		3244	Name contains only alphabets	Name contains only alphabets	Pass
2	Email	thakkar2995@gmail.com	Data Sent successfully.	Data Sent successfully.	Pass
		abcd	Please enter a valid email	Please enter a valid email	Pass
3	Mobile Number	9974090535	Data Sent successfully.	Data Sent successfully.	Pass
		3456453	Invalid Mobile Number	Invalid Mobile Number	Pass
4	Message	Good service	Data Sent successfully.	Data Sent successfully.	Pass
			Message Required	Message Required	Pass
5	All Field Null	All field Null	Data not added to database	Data not added to database	Please insert Data

5.Admin Adds Tour Packages

Sr No.	Field	Input	Expected Output	Actual Output	Result
1	Package Name	Summer Special	Package name accepted	Package name accepted	Pass
	Package Name	(empty)	Package name required	Package name required	Pass
2	Source	Mumbai	Source accepted	Source accepted	Pass
	Source	(empty)	Source required	Source required	Pass
3	Destination	Goa	Destination accepted	Destination accepted	Pass
	Destination	(empty)	Destination required	Destination required	Pass
4	Departure Date	2025-04-01	Departure date accepted	Departure date accepted	Pass
	Departure Date	(empty)	Departure date required	Departure date required	Pass
5	Departure Time	10:00 AM	Departure time accepted	Departure time accepted	Pass
	Departure Time	(empty)	Departure time required	Departure time required	Pass
6	Arrival Date	2025-04-05	Arrival date accepted	Arrival date accepted	Pass
	Arrival Date	(empty)	Arrival date required	Arrival date required	Pass
7	Arrival Time	06:00 PM	Arrival time accepted	Arrival time accepted	Pass
	Arrival Time	(empty)	Arrival time required	Arrival time required	Pass
8	Price (₹)	5000	Cost accepted	Cost accepted	Pass
	Price (₹)	(empty)	Cost required	Cost required	Pass

Add Package

Package Name *

Please Enter package name

Package name required

Source *

Enter a location

Source required

Destination *

Enter a location

Destination required

Description *

B I S I_x | Styles ▾ | Format ▾ | ?

Arrival Date *

Arrival date required

Arrival Time *

12 : 58 : AM

Deptarture Date *

Departure date required

Deptarture Time *

Departure time required

Image

Choose File

Status

Active ▾

price (₹) *

price

Cost required

Save

6. Admin Add Coupon

Sr No.	Field	Input	Expected Output	Actual Output	Result
1	Coupon Title	Summer Sale	Title accepted	Title accepted	Pass
	Coupon Title	(empty)	Title required	Title required	Pass
2	Coupon Code	SUMMER2025	Code accepted	Code accepted	Pass
	Coupon Code	(empty)	Code required	Code required	Pass
3	Discount Amount	10.00	Discount accepted	Discount accepted	Pass
	Discount Amount	(empty)	Discount required	Discount required	Pass
4	From Date	01/04/2025	Date accepted	Date accepted	Pass
	From Date	(empty)	From date required	From date required	Pass
5	To Date	30/04/2025	Date accepted	Date accepted	Pass
	To Date	(empty)	To date required	To date required	Pass
6	Status	Active	Status set	Status set	Pass
	Status	Inactive	Status set to Inactive	Status set to Inactive	Pass

6. Admin Add FAQS

Sr No.	Field	Input	Expected Output	Actual Output	Result
1	Question	How to book tour package	Question accepted	Question accepted	Pass
	Question	(empty)	Question required	Question required	Pass
2	Answer	Click Ok	Answer accepted	Answer accepted	Pass
	Answer	(empty)	Answer required	Answer required	Pass
3	Status	Active	Status set to Active	Status set to Active	Pass
	Status	Inactive	Status set to Inactive	Status set to Inactive	Pass

Add FAQ

Question *

Question required

Answer *

Answer required

Status

Active

Save

8 Admin Add Vehicle

Sr No.	Field	Input	Expected Output	Actual Output	Result
1	Category	General, premium	Category selected	Category selected	Pass
2	Name	Honda City	Name accepted	Name accepted	Pass
	Name	(empty)	Name required	Name required	Pass
3	Model	2023	Model accepted	Model accepted	Pass
	Model	(empty)	Model required	Model required	Pass
4	Car Number	GJ01AB 1234	Car number accepted	Car number accepted	Pass
5	Fuel Type	Diesel	Fuel type selected	Fuel type selected	Pass
6	Passengers Capacity	4	Capacity accepted	Capacity accepted	Pass
	Passengers Capacity	(empty)	Passengers capacity required	Passengers capacity required	Pass
7	Large Luggage Capacity	50	Capacity accepted (kg)	Capacity accepted (kg)	Pass
	Large Luggage Capacity	(empty)	Large luggage capacity required	Large luggage capacity required	Pass
8	Small Luggage Capacity	20	Capacity accepted (kg)	Capacity accepted (kg)	Pass
	Small Luggage Capacity	(empty)	Small luggage capacity required	Small luggage capacity required	Pass
9	Total Vehicles	5	Vehicles count accepted	Vehicles count accepted	Pass
	Total Vehicles	(empty)	Total vehicles required	Total vehicles required	Pass

10	Cost Starting From (₹)	2000	Starting cost accepted	Starting cost accepted	Pass
	Cost Starting From (₹)	(empty)	Starting cost required	Starting cost required	Pass
11	Cost Type Selection	Flat	Flat cost type selected	Flat cost type selected	Pass
12	Min Day Distance	10	Distance accepted (km)	Distance accepted (km)	Pass
	Min Day Distance	(empty)	Minimum day distance required	Minimum day distance required	Pass
13	Min Day Cost (₹)	1000	Cost accepted	Cost accepted	Pass
	Min Day Cost (₹)	(empty)	Minimum day cost required	Minimum day cost required	Pass
14	Min Night Distance	15	Distance accepted (km)	Distance accepted (km)	Pass
	Min Night Distance	(empty)	Minimum night distance required	Minimum night distance required	Pass
15	Min Night Cost (₹)	1500	Cost accepted	Cost accepted	Pass
	Min Night Cost (₹)	(empty)	Minimum night cost required	Minimum night cost required	Pass
16	Day Flat Cost	20	Cost per km accepted	Cost per km accepted	Pass
	Day Flat Cost	(empty)	Day flat cost required	Day flat cost required	Pass

17	Night Flat Cost	25	Cost per km accepted	Cost per km accepted	Pass
	Night Flat Cost	(empty)	Night flat cost required	Night flat cost required	Pass
18	Vehicle Features	Video Coach, Wifi, AC	Features selected	Features selected	Pass
19	Status	Active	Status selected	Status selected	Pass
20	Image Upload	Valid image selected	Image accepted	Image accepted	Pass
21	Image Upload	No image selected	No error	No error	Pass
22	Description	eg: Air conditioned, premium seats	Description accepted	Description accepted	Pass

Add Vehicle

▤ Vehicles

Category *
Select Vehicle Category

Name *
Car Name
Name required

Model *
Model
Model required

Car Number
Car Number

Fuel Type
Petrol

Passengers Capacity *
No. of Passengers
Passengers capacity required

Large Luggage Capacity *
In kg's
Large luggage capacity required

Small Luggage Capacity *
In kg's
Small luggage capacity required

Image
Choose File

Description
eg: car conditions etc

Total Vehicles *
Total no of vehicles available
Total vehicles required

Cost Starting From (₹) *
Starting cost required

⦿ Flat ◯ Incremental Cost Type

* Set flat costs per Km.

	Min. Distance (in Km)	Min. Cost (₹)
DAY	**Minimum day distance** Minimum day distance required	**Minimum day cost** Minimum day cost required
NIGHT	**Minimum night distance** Minimum night distance required	**Minimum night cost** Minimum night cost required

	DAY Time	NIGHT Time
Flat Cost (per Km)	**Day flat cost** Day flat cost required	**Night flat cost** Night flat cost required

Vehicle Features
☐ Video Coach ☐ Wifi ☐ Non-AC ☐ AC

Status
Active

Add