#### 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.

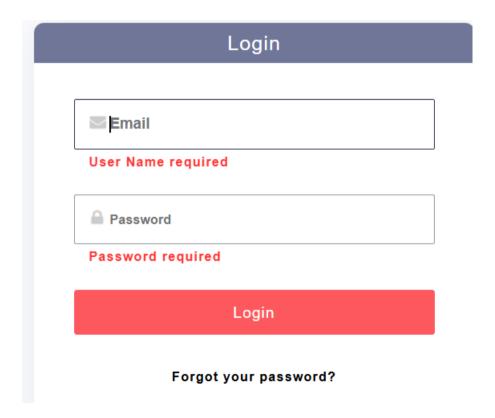
#### **How it Works:**

- 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

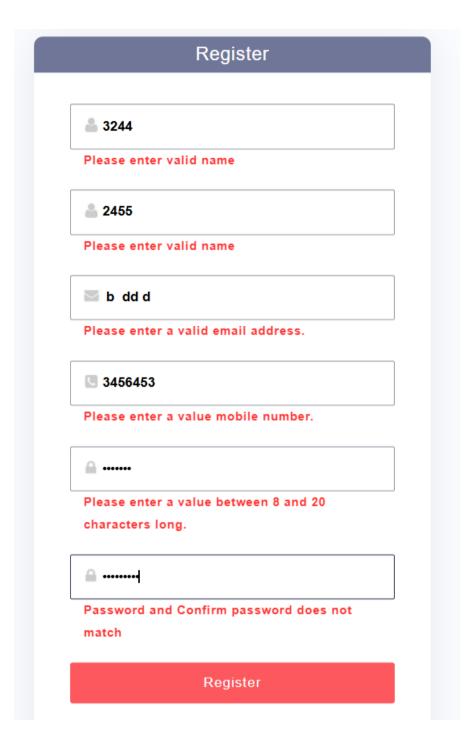
## 1. Login

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



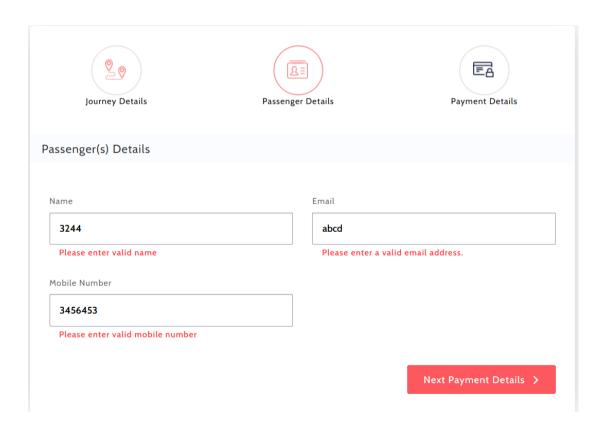
# 2. Registration

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



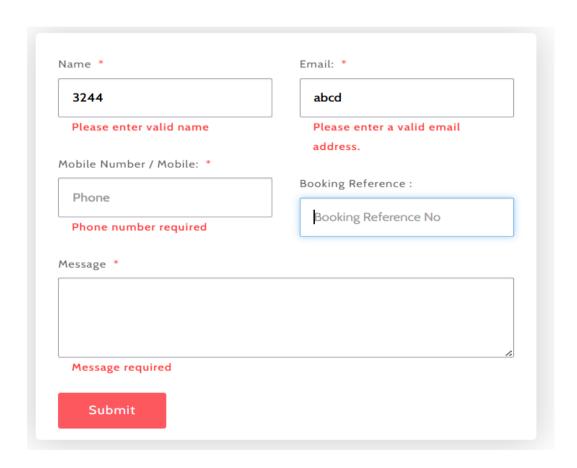
#### 3. Tour Package Booking

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



#### 4. Contact Us

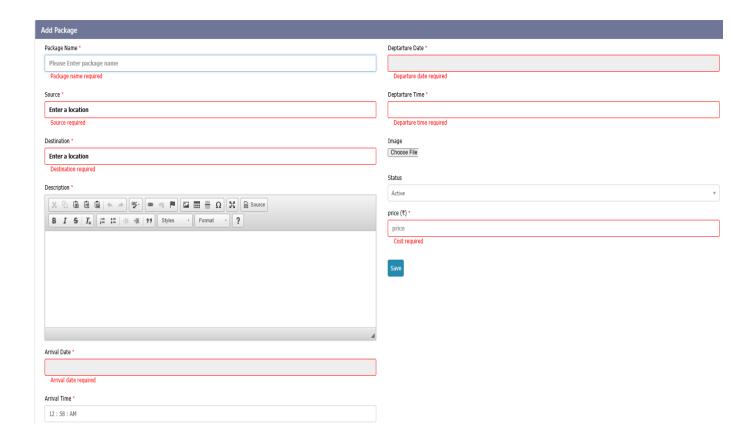
Sr	Field	Input	Excepted Output	Actual Output	Result
No.					
1	Name	Om Thakkar	Data Sent	Data Sent	Pass
			successfully.	successfully.	
		3244	Name contains only	Name contains only	Pass
			alphabets	alphabets	
2	Email	thakkar2995@gmail.com	Data Sent	Data Sent	Pass
			successfully.	successfully.	
		abcd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



# 5. Admin Adds Tour Packages

Sr No.	Field	Input	Expected	Actual	Result
			Output	Output	
1	Package Name	Summer	Package	Package	Pass
		Special	name	name	
			accepted	accepted	
	Package Name	(empty)	Package	Package	Pass
			name	name	
			required	required	
2	Source	Mumbai	Source	Source	Pass
			accepted	accepted	
	Source	(empty)	Source	Source	Pass
			required	required	
3	Destination	Goa	Destination	Destination	Pass
			accepted	accepted	
	Destination	(empty)	Destination	Destination	Pass
		, 10,	required	required	
4	Departure Date	2025-	Departure	Departure	Pass
		04-01	date	date	
			accepted	accepted	
	Departure Date	(empty)	Departure	Departure	Pass
		\ 1 3/	date	date	
			required	required	
5	Departure Time	10:00	Departure	Departure	Pass
_	_ · · · · · · · · · · · · · · · · · · ·	AM	time	time	
			accepted	accepted	
	Departure Time	(empty)	Departure	Departure	Pass
		(01140)	time	time	1 4655
			required	required	
6	Arrival Date	2025-	Arrival date	Arrival date	Pass
Ü	THIT VALL DATE	04-05	accepted	accepted	1 455
	Arrival Date	(empty)	Arrival date	Arrival date	Pass
	7 HTT var Bate	(chipty)	required	required	1 455
7	Arrival Time	06:00	Arrival time	Arrival time	Pass
,	7 MIII VAII TIIIR	PM	accepted	accepted	1 433
	Arrival Time	(empty)	Arrival time	Arrival time	Pass
	1 MIIVAI IIIK	(chipty)	required	required	1 455
8	Price (₹)	5000	Cost	Cost	Pass
O	11100(1)	3000	accepted	accepted	1 488
	Price (₹)	(ampty)	Cost	Cost	Pass
	F1106 (x)	(empty)			rass
			required	required	

#### Car Rental System



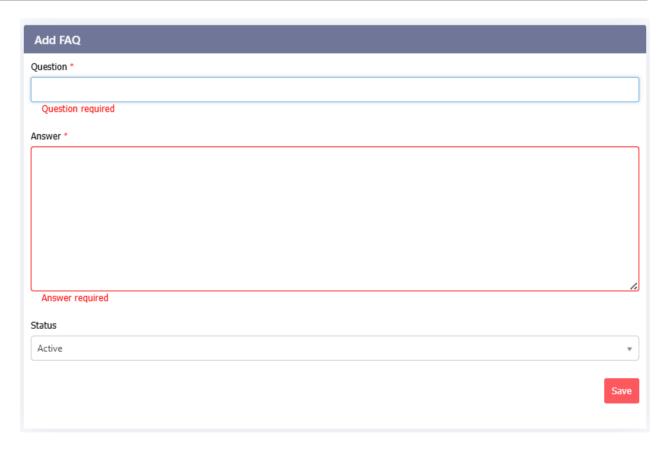
## 6. Admin Add Coupon

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

Add Coupon
Coupon Title *
Coupon title required
Coupon Code *
Coupon code required
Discount Amount •
Eg: 10.00
Discount amount required
From *
From date required
То "
To date required
Status
Active
Save
Save

#### 6. Admin Add FAQS

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



## 8 Admin Add Vehicle

Sr No.	Field	Input	Expected	Actual	Result
			Output	Output	
1	Category	General,	Category	Category	Pass
		premiu	selected	selected	
		m			
2	Name	Honda	Name	Name	Pass
		City	accepted	accepted	
	Name	(empty)	Name	Name	Pass
			required	required	
3	Model	2023	Model	Model	Pass
			accepted	accepted	
	Model	(empty)	Model	Model	Pass
			required	required	
4	Car	GJ01AB	Car number	Car	Pass
	Number	1234	accepted	number	
				accepted	
5	Fuel Type	Diesel	Fuel type	Fuel type	Pass
			selected	selected	
6	Passenger	4	Capacity	Capacity	Pass
	s Capacity		accepted	accepted	
	Passenger	(empty)	Passengers	Passenger	Pass
	s Capacity		capacity	s capacity	
			required	required	
7	Large	50	Capacity	Capacity	Pass
	Luggage		accepted (kg)	accepted	
	Capacity			(kg)	
	Large	(empty)	Large luggage	Large	Pass
	Luggage		capacity	luggage	
	Capacity		required	capacity	
				required	
8	Small	20	Capacity	Capacity	Pass
	Luggage		accepted (kg)	accepted	
	Capacity			(kg)	
	Small	(empty)	Small luggage	Small	Pass
	Luggage		capacity	luggage	
	Capacity		required	capacity	
				required	
9	Total	5	Vehicles	Vehicles	Pass
9	Vehicles	,	count	count	ra55
	vernicles				
			accepted	accepted	
	Total	(empty)	Total vehicles	Total	Pass
	Vehicles		required	vehicles	
				required	

## Car Rental System

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

## Car Rental System

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

