

# System Requirement Specification Car Rental System

Security Classification: Confidential

# **Approval Page**

Decision	Approved	Rejected
Name:		
Signature/Date:		

# Revision History

Date	Version	Author	Change Description
27/07/2022	0.05	ThuTH3	First Creation
15/08/2022	0.1	ThuTH3	Version 0.1
19/08/2022	0.2	ThuTH3	Version 0.2
30/08/2022	0/3	ThuTH3	Version 0.3:  - Update the screen description in UC22 and UC23 - Update Non-functional requirement - Update Email content - Update Booking No.

# **Table of Contents**

# Contents

1.	Intro	oduction	9
1	l.1	Purpose	
2.	High	n Level Requirements	10
2	2.1	High Level Business Process	10
2	2.1.1	Flowchart for Customer	10
2	2.1.2	Flowchart for Car Owner	11
2	2.2	Entity Relationship Diagram	12
2	2.3	Use Case Diagram	12
2	2.4	Actor	13
2	2.5	Use Case Catalogue	13
3.	Use	Case Specifications	15
3	3.1	UC01: Log in	15
	3.1.1	1 Overview	15
	3.1.2	2 Flow of Events	15
	3.1.3	3 Mock-up Screen	16
	3.1.4	4 Screen Description	16
3	3.2	UC02: Log out	16
	3.2.1	1 Overview	16
	3.2.2	2 Flow of Events	17
	3.2.3	3 Mock-up Screen	17
	3.2.4	4 Screen Description	17
3	3.3	UC03 Forgot password	17
	3.3.1	1 Overview	17
	3.3.2	2 Flow of Events	18
	3.3.3	3 Mock-up Screen	19
	3.3.4	4 Screen Description	20
	3.3.5	5 Business Rules	20
3	3.4	UC04: Register an account	20
	3.4.1	1 Overview	20

3.4.2	Flow of Events	21
3.4.3	Mock-up Screen	22
3.4.4	Screen Description	22
3.4.5	Business Rules	23
3.5 L	JC05: Edit Profile	23
3.5.1	Overview.	23
3.5.2	Flow of Events	23
3.5.3	Mock-up Screen	24
3.5.4	Screen Description	24
3.5.5	Business Rules	25
3.6 L	JC06: View Homepage as guest	25
3.6.1	Overview.	25
3.6.2	Flow of Events	26
3.6.3	Mock-up Screen	27
3.6.4	Screen Description	27
3.6.5	Business Rules	28
3.7 L	JC07: View Homepage as Customers	29
3.7.1	Overview.	29
3.7.2	Flow of Events	29
3.7.3	Mock-up Screen	30
3.7.4	Screen Description	30
3.8 L	JC08: Search a car	31
3.8.1	Overview.	31
3.8.2	Flow of Events	31
3.8.3	Mock-up Screen	32
3.8.4	Screen Description	33
3.8.5	Business Rules	34
3.9 L	JC09: View Car details	35
3.9.1	Overview	35
3.9.2	Flow of Events	35
3.9.3	Mock-up Screen	36

3.9.4	Screen Description	38
3.9.5	Business Rules	40
3.10 UC	C10: Rent a car	40
3.10.1	Overview.	40
3.10.2	State Diagram for Bookings	40
3.10.3	Flow of Events	41
3.10.4	Mock-up Screen	43
3.10.5	Screen Description	45
3.10.6	Business Rules	47
3.11 UC	C11: View Booking List	48
3.11.1	Overview.	48
3.11.2	Flow of Events	48
3.11.3	Mock-up Screen	48
3.11.4	Screen Description	50
3.11.5	Business Rules	50
3.12 UC	C12: Edit Booking Details	51
3.12.1	Overview.	51
3.12.2	Flow of Events	51
3.12.3	Mock-up Screen	52
3.12.4	Screen Description	54
3.12.5	Business Rules	57
3.13 UC	C13: Cancel booking	57
3.13.1	Overview	57
3.13.2	Flow of Events	57
3.13.3	Mock-up Screen	58
3.13.4	Screen Description	58
3.13.5	Business Rules	58
3.14 UC	C14: Confirm Pick-up	58
3.14.1	Overview.	58
3.14.2	Flow of Events	59
3.14.3	Mock-up Screen	59

3.14.4	Screen Description	59
3.14.5	Business Rules	59
3.15 U	C15: Return a car	60
3.15.1	Overview.	60
3.15.2	Flow of Events	60
3.15.3	Mock-up Screen	61
3.15.4	Screen Description	61
3.15.5	Business Rules	61
3.16 U	C16: Give Ratings	61
3.16.1	Overview.	61
3.16.2	Flow of Events	61
3.16.3	Mock-up Screen	62
3.16.4	Screen Description	62
3.17 U	C17: View Homepage as Car owners	62
3.17.1	Overview	62
3.17.2	Flow of Events	63
3.17.3	Mock-up Screen	63
3.17.4	Screen Description	63
3.17.5	Business Rules	64
3.18 U	C18: Add a Car	64
3.18.1	Overview	64
3.18.2	State Diagram for Cars	64
3.18.3	Flow of Events	65
3.18.4	Mock-up Screen	66
3.18.5	Screen Description	69
3.18.6	Business Rules	71
3.19 U	C19: View My cars	71
3.19.1	Overview	71
3.19.2	Flow of Events	71
3.19.3	Mock-up Screen	72
3.19.4	Screen Description	74

3.20	UC	20: Edit Car Information	74
3.20	0.1	Overview.	74
3.20	0.2	Flow of Events	74
3.20	0.3	Mock-up Screen	75
3.20	0.4	Screen Description	77
3.20	0.5	Business Rules	79
3.21	UC	21: Stop Renting a Car	79
3.2	1.1	Overview.	79
3.2	1.2	Flow of Events	79
3.2	1.3	Mock-up Screen	80
3.2	1.4	Screen Description	80
3.2	1.5	Business Rules	80
3.22	UC	22: Confirm deposit	80
3.2	2.1	Overview.	80
3.2	2.2	Flow of Events	80
3.2	2.3	Mock-up Screen	81
3.2	2.4	Screen Description	81
3.2	2.5	Business Rules	81
3.23	UC	23: Confirm payment	81
3.2	3.1	Overview.	81
3.2	3.2	Flow of Events	82
3.2	3.3	Mock-up Screen	82
3.23	3.4	Screen Description	82
3.23	3.5	Business Rules	83
3.24	UC	24: View Wallet	83
3.2	4.1	Overview.	83
3.2	4.2	Flow of Events	83
3.2	4.3	Mock-up Screen	84
3.2	4.4	Screen Description	85
3.2	4.5	Business Rules	86
3 25	UС	25: View Feedback Report	87

	3.25.	1 Overview	87
	3.25.	.2 Flow of Events	87
	3.25.	.3 Mock-up Screen	88
	3.25.	4 Screen Description	89
	3.25.	.5 Business Rules	89
4.	Non-	functional requirements	90
	4.1	Performance	90
	4.2	System Availability	90
	4.3	Audit Logging and monitoring	90
	4.4	Security	90
5.	Appe	endices	91
	5.1	Message List	91
	5.2	Email List	91
	5.3	Common Component	92
	5.3.1	Header	92
	5.3.2	Prooter	92
	5.3.3		
	5.3.4		
		Switch view button	93

# 1. INTRODUCTION

#### 1.1 Purpose

The Software Requirement Specifications will:

- Define the scope of business objectives, business functions, and organizational units covered,
- Identify the business processes that the solution must facilitate,
- Facilitate a common understanding of what the functional requirements are for all parties involved,
- ❖ Establish a basis for defining the acceptance tests for the solution to confirm that what is delivered meets requirements.

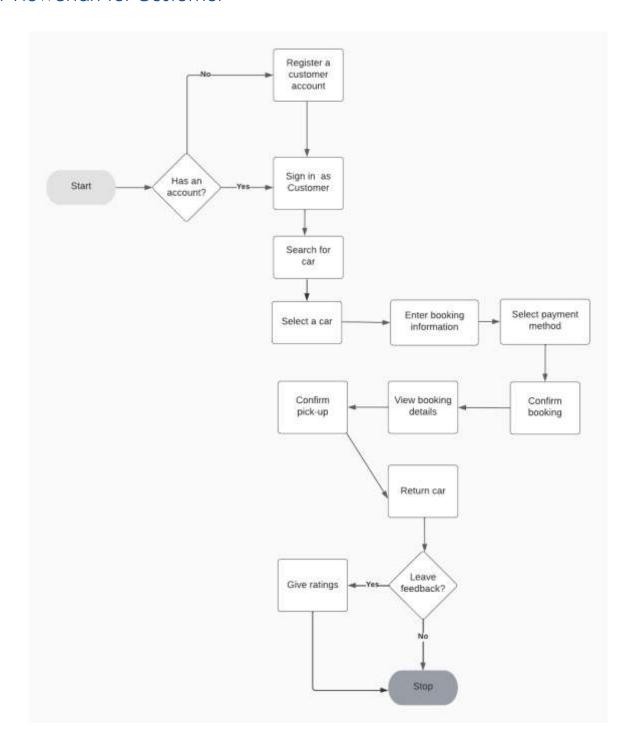
The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers. Also, we shall predict and sort out how we hope this product will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops.

## 2. HIGH LEVEL REQUIREMENTS

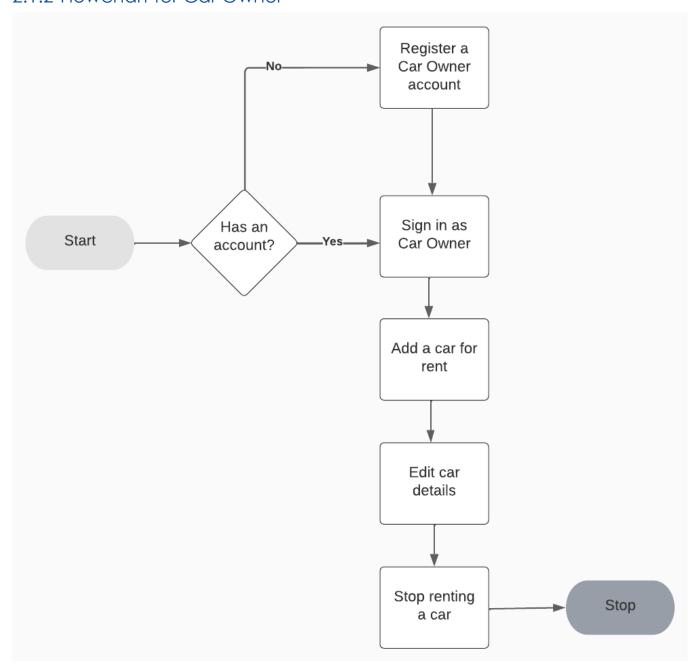
This section describes the general overview of the system functions or business processes which are depicted in different diagrams. It shows the types of users, their granted permissions to perform specific system functions and the sequence required to complete a business workflow (if any). As the section name implies, it is high-level which means not detailed enough. For detailed requirement specification, please see Use Case Specifications section below.

## 2.1 High Level Business Process

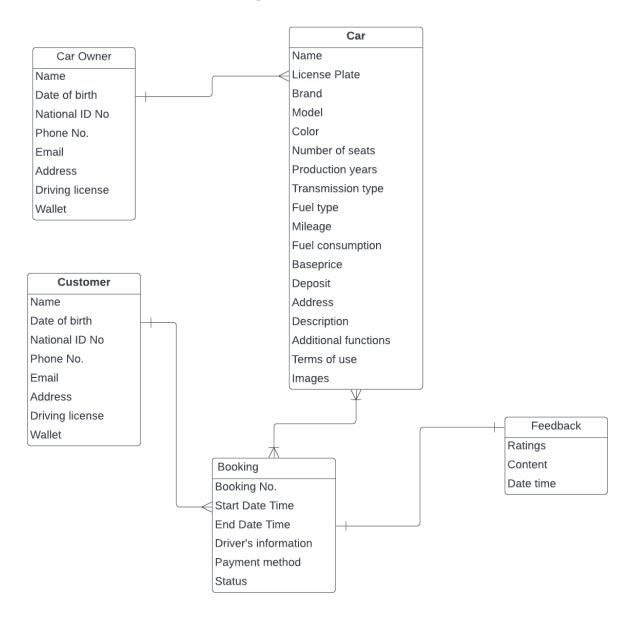
#### 2.1.1 Flowchart for Customer



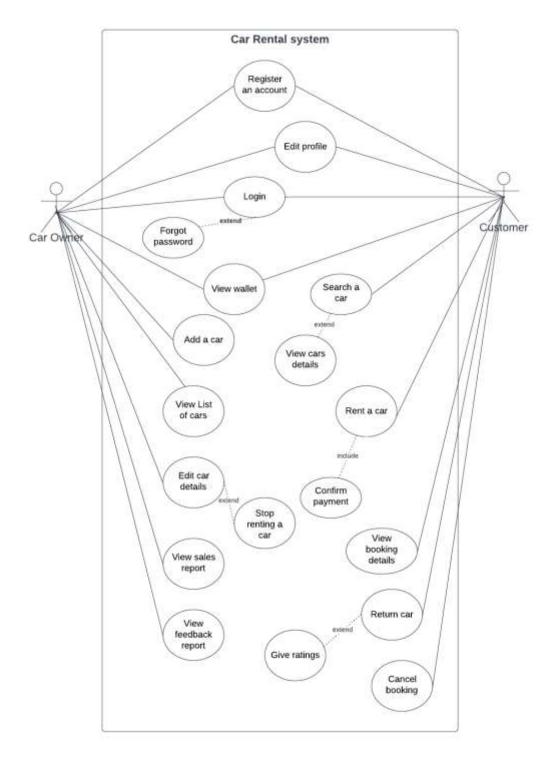
# 2.1.2 Flowchart for Car Owner



## 2.2 Entity Relationship Diagram



## 2.3 Use Case Diagram



## 2.4 Actor

Actors	Description	
Car Owner	Users who have the need to rent out their cars	
Customer	ustomer Users who have the need to rent a car	
Guest	User who visits the web page with no account	

# 2.5 Use Case Catalogue

UC ID UC Name	Description	
---------------	-------------	--

General		
UC01	Login	This use case allows customers, car owners to log in.
UC02	Forgot password	This use case allows customers and car owners to reset password after user has forgotten the password
UC03	Register an account	This use case allows customers, car owners to register an account
UC04	Edit profile	This use case allows users to edit the profile information
UC05	View Homepage as guest	This use case allows non-login users to view homepage and menu
UC06	Log out	This use case allows users to log out of the system
Car Owner		
UC07	View Homepage as Car owner	This use case allows users who has logged in as Car owner to view the homepage and menu
UC08	Add a car	This use case allows car owners to add a car for rent
UC09	View List of cars	This use case allows car owners to view their list of cars
UC10	Edit car information	This use case allows car owners to edit car information
UC11	Stop renting a car	This use case allows car owners to stop renting a car
UC12	Confirm deposit	This use case allows car owners to confirm the deposit and update the booking status
UC13	Confirm payment	This use case allows car owners to confirm the payment after customer returns a car
Customer		
UC14	View Homepage as customer	This use case allows users who has logged in as Customer to view the homepage and menu
UC15	Search a car	This use case allows customers to search for a car in the system
UC16	View Car details	This use case allows customers to view the details page of a car
UC17	Rent a car	This use case allows customers to select a car and rent the car
UC18	Confirm Pick-up	This use case allows customers to confirm picking up a car and change the booking status
UC19	View Booking List	This user case allows customers to view their booking list
UC20	View Booking details	This use case allows customers to view and edit booking details
UC21	Cancel booking	This use case allows customers to cancel a booking
UC22	Return a car	This use case allows customers to return a car after renting
UC23	Give ratings	This use case allows customers to give ratings after returning a car
Reports		
UC24	View wallet	This use case allows users to view the wallet balance
UC25	View feedback report	This use case allows car owner to view feedback report from customer's rating

# 3. USE CASE SPECIFICATIONS

This section covers the system's functional requirements which details what the system must do in terms of input, behavior and the expected output. It elicits the interaction between the actor(s) and the system, the system's behavior and the results of their interactions.

#### 3.1 UC01: Log in

#### 3.1.1 Overview.

ID and Name	Log in	
Description	This use case allows users to log in.	
Actor	Customer, car owners	
Trigger	Users click on the Log in button	
Pre-condition Users have valid accounts in the system		
Post-condition	Users can log into the system	

#### 3.1.2 Flow of Events

#### 3.1.2.1 Basic Flow

Step	Description			
1	Users access the system and click on Login button on header			
2	The system displays the Log in screen			
3	Users fill in the provided account information and click the Log in button			
4	The system validates the account credentials successfully and allows the user to access the system			
	Users log in successfully, system display the correct Homepage content to users			
5	- If user has logged in as Customer, display the content for customer, trigger UC05			
	- If user has logged in as Car Owner, display the content for car owner, trigger UC17			
6	The flow ends			

#### 3.1.2.2 Exception flow 1 - User fill incorrect password and/or email address

Step	Description				
1	At step 3, users enters in correct email and/or password				
	The system fails to validate the credentials and return error message				
2	<ul> <li>If Email address or password don't match OR email address doesn't exist in the system, display error message – ME001: "Either email address or password is incorrect. Please try again"</li> <li>If Email address is wrong format, display error message – ME002: "Please enter a valid email address"</li> <li>If any of the required field is blank, display error message – ME003: "This field is required."</li> </ul>				

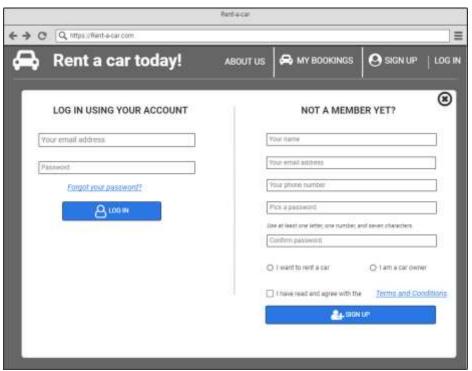
#### 3.1.2.3 Exception flow 2 – Users cancel the sign-up flow

Step	Description		
1.	Users click on X button in the dialog		
2.	The system closes the dialog and user is not logged in		
3.	The flow ends		

#### 3.1.2.4 Alternative flow 1 - Users forgot password

Step	Description		
1	At step 3, user chooses Forgot password		
2	The System triggers UC03		

#### 3.1.3 Mock-up Screen



Screen 1. Login - Sign Up

#### 3.1.4 Screen Description

## 3.1.4.1 Login screen / Login section

REF	Field Name	Control Type	Data Type	Description
1.	Section's title	Label	Text	Display "Log in using your account"
2.	Email address	Text field	All characters	Mandatory. Default to blank. Allow to enter email address. Hint text: "Your email address". Must be email address format
3.	Password	Text field	Text	Mandatory. Default to blank. Allow to enter password. Password will be masked when user types
4.	Forgot password	Text link	N/A	Click to trigger UC03
5.	Login	Button	N/A	Click to login

# 3.2 UC02: Log out

#### 3.2.1 Overview.

ID and Name	Log out	
Description	This use case allows users to log out	
Actor	Customer, car owners	
Trigger	Users click on the Log out	
Pre-condition	Users have already logged in	
Post-condition	Users can log out of the system	

#### 3.2.2 Flow of Events

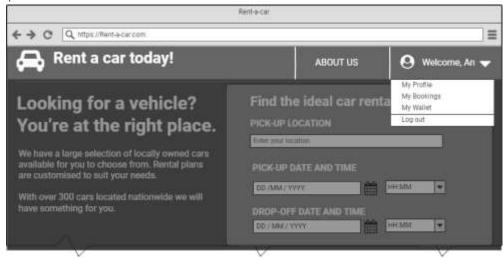
#### 3.2.2.1 Basic Flow

Step	Description	
1	Logged-in users click on Logout link on header	
2	The system displays the confirmation dialog: "Are you sure you want to log out?"	
3	Users click OK to confirm	
4	User is logged out of the system	
5	System display Homepage for Guest user.	
6	The flow ends	

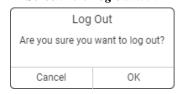
#### 3.2.2.2 Exception flow 1 - User cancel when log out

Step	Description	
1	At step 3, users click Cancel to discard the flow	
2	System closes the dialog and no changes are made	

#### 3.2.3 Mock-up Screen



Screen 2.1. Log out link



Screen 2.2. Log out dialog

#### 3.2.4 Screen Description

#### 3.2.4.1 Header / Log out link

REF	Field Name	Control Type	Data Type	Description
1.	Log out link	Text link	Text	Click to log out of the system

## 3.3 UC03 Forgot password

#### 3.3.1 Overview.

ID and Name	Forgot password
Description	This use case allows users to reset password after forgetting it

Actor	Customer, car owners	
Trigger	Users click on the Forgot password text link	
Pre-condition	Users had valid accounts in the system	
Post-condition	Users can reset password successfully	

#### 3.3.2 Flow of Events

#### 3.3.2.1 Basic Flow

Step	Description
1.	From Log in screen, users click Forgot password
2.	The system displays the Forgot password screen
3.	Users enter email address and click Send
4.	The system validate that email address exists in the system and send an email with a reset password links to user (Email template EM01)
5.	Users click in the link in the email
6.	The system displays a screen for user to reset password
7.	Users enter new password and confirm password
8.	The system update the new password for users
9.	User can use the new password to login
10.	The flow ends

#### 3.3.2.2 Exceptional Flow 1 – Users cancel the Forgot password flow

Step	Description	
1.	At step 3, user doesn't enter email address and click Cancel	
2.	The system direct back to Login screen	
3.	The flow ends	

#### 3.3.2.3 Exceptional Flow 2 – The reset password link has expired or has been used

Step	Description			
1.	At step 5, the link in the email address has expired or has been used			
2.	The system displays an error message ME006 "This link has expired. Please go back to Homepage and try again." to inform user			
3.	The flow ends			

#### 3.3.2.4 Exceptional Flow 3 – The email address user enters doesn't exist in the system

Step	Description
1.	At step 3, the system validates that email address doesn't exist in the system
2.	
3.	The flow ends

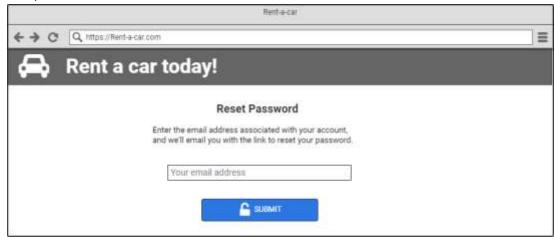
#### 3.3.2.5 Exceptional Flow 4 – New password and confirm password doesn't match

Step	Description
1.	At step 7, new password and confirm password don't match
2.	The system displays an error message ME005: "Password and Confirm password don't match. Please try again." to inform user

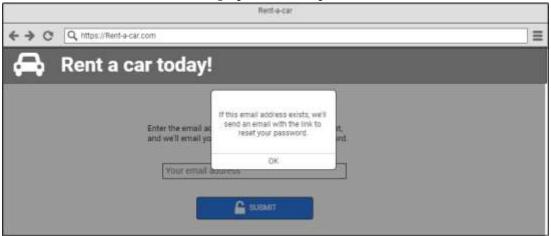
# 3.3.2.6 Exceptional Flow 5 – New password or confirm password doesn't meet the password requirement

Step	Description			
1.	At step 7, new password or confirm password doesn't meet password requirement.			
2.	The system displays an error message ME014: "Password must contain at least one number, one numeral, and seven characters." to inform user			
3.	The flow ends			

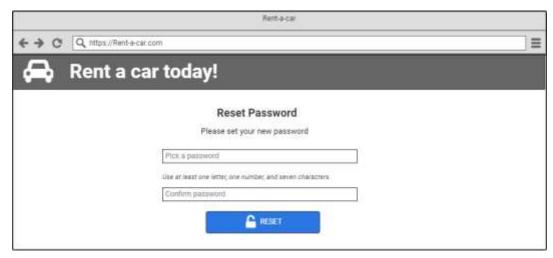
#### 3.3.3 Mock-up Screen



Screen 3.1. Forgot password - Step 1: Submit email



Screen 3.2. Forgot password – Step 1: Dialog



Screen 3.3. Forgot password – Step 2: Reset password

#### 3.3.4 Screen Description

#### 3.3.4.1 Reset Password screen / Step: Enter password

REF	Field Name	Control	Data Type	Description
		Туре		
1.	Section's title	Label	N/A	Display "Reset password"
2.	Instruction	Text field	Text	Display "Enter the email address associated with your account and we'll email you with the link to reset your password."
3.	Email	Text field	All characters	Mandatory. Default to blank. Allow to enter user's email address
	address			Hint text: "Your email address". Must be email address format
4.	Submit	Button	N/A	Click to submit the email address
5.	Pop-up	Pop-up	N/A	Display dialog: "If this email address exists, we'll send an email
	dialog			with the link to reset your password."
6.	Ok	N/A	N/A	Click to close dialog

#### 3.3.4.2 Reset Password screen / Step: Enter password

REF	Field Name	Control Type	Data Type	Description
1.	Confirm	Text field	All characters	Mandatory. Default to blank. Allow to enter password.
	password			Password will be masked when user types
2.	Reset	Button	N/A	Click to reset the password

#### 3.3.5 Business Rules

Business Rule ID	Business Rule Description
BRL-03-01	The reset password link can only be used 1 time. Afterwards it will be invalid
BRL-03-02	The reset password link is only valid for 24 hours. Afterwards it will expire
BRL-03-03	System only send reset password email to valid email address that already tied to an existing and active account in the system.

## 3.4 UC04: Register an account

#### 3.4.1 Overview.

ID and Name	Register an account	
Description	This use case allows users to register an account	
Actor	Customer, car owners	

Trigger	Users click on the Sign Up button
Pre-condition	Customers and car owners can access the system
Post-condition	Customer, car owners can create accounts in the system

#### 3.4.2 Flow of Events

#### 3.4.2.1 Basic Flow

Step	Description			
1.	Users access the system and click on Sign Up button on header			
2.	The system displays the Sign Up screen			
3.	Users fill in the required account information: Name, unique email address, phone number, password			
4.	Users check to agree with Terms and Conditions			
5.	Users click Sign-Up button			
6.	The system validates information and creates a new account for user			
7.	The flow ends			

## 3.4.2.2 Exception flow 1 – Email address is not unique

Step	Description		
1.	At step 3, the email address user enters has already existed and tied to an account in the system		
2.	The system returns an error message ME004: "Email already existed. Please try another email."		

#### 3.4.2.3 Exception flow 2 – User doesn't provide required information

Step	Description
1.	At step 3, user misses any of the required information or enter wrong format for Name, email address,
	password, confirm password, Terms and conditions checkbox
2.	The system returns an error message - ME003: "This field is required."

#### 3.4.2.4 Exception flow 3 – Password and confirm password don't match

Step	Description
1.	At step 3, new password and confirm password don't match
2.	The system displays an error message to inform user: ME005: "Password and Confirm password don't match. Please try again."

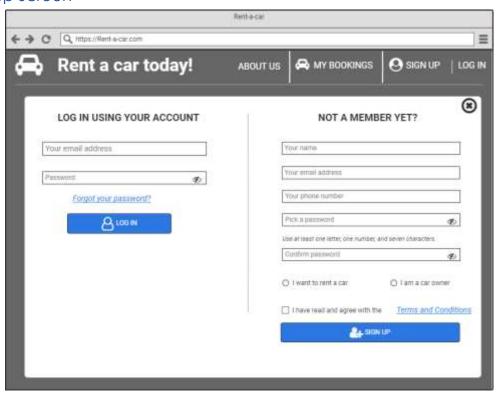
# 3.4.2.5 Exceptional Flow 4 – Password or confirm password doesn't meet the password requirement

Step	Description			
3.	At step 3, Password or confirm password doesn't meet password requirement.			
4.	The system displays an error message ME014: "Password must contain at least one number, one numeral, and seven characters." to inform user			
5.	The flow ends			

#### 3.4.2.6 Exception flow 5 – Users cancel the sign-up flow

Step	Description
4.	User clicks on X button in the dialog
5.	The system closes the dialog and no account is created
6.	The flow ends

#### 3.4.3 Mock-up Screen



Screen 1. Login - Sign Up

## 3.4.4 Screen Description

## 3.4.4.1 Login screen/ Registration section

REF	Field Name	Control Type	Data Type	Description	
2.	Section's title	Label	Text	Display "Not a member yet?"	
3.	Name	Text field	All characters		
4.	Email address	Text field	All Mandatory. Default to blank. characters Allow to enter user's email address. Hint text: "Your email address". Must be email address format		
5.	Phone number	Text field	Numeric and (+)	Mandatory. Default to blank. Allow to enter user's phone number. Hint text: "Your phone number"	
6.	Password	Text field	All Mandatory. Default to blank. Allow to enter password. Password will be masked when user types Instruction: "Use at least one number, one numeral, and seven characters."		
7.	Confirm password	Text field	All characters	Mandatory. Default to blank. Allow to enter password. Password will be masked when user types	
8.	Account type	Radio button	N/A	Mandatory. Default to blank 2 options:  I want to rent a car I am a car owner	
9.	Terms and Conditions	Checkbox	N/A	Mandatory. Default to uncheck. Allow to check/uncheck.	

				Display: "I have read and agree with the Terms and Conditions"  Terms and conditions is a text link, click to open in a new tab
10.	Sign Up	Button	N/A	Click to submit the information and sign –up

#### 3.4.5 Business Rules

Business Rule ID	Business Rule Description
BRL-04-01	Email address will be used as a unique identifier for user.
BRL-04-02	User will use email address to login
BRL-04-03	Password needs to be encrypted. Password needs to have at least one letter, one number and seven characters.
BRL-04-04	Password and Confirm password need to match.
BRL-04-05	If user selects option "I want to rent a car" -> create a Customer account for user
BRL-04-06	If user selects option "I am a car owner" -> create a Car Owner account for user
BRL-04-07	Account type is required

#### 3.5 UC05: Edit Profile

#### 3.5.1 Overview.

ID and Name	Edit profile	
Description	This use case allows customers and car owners to edit their account information	
Actor	Customer, car owners	
Trigger	Customers and car owners click on My Profile on headers	
Pre-condition	Users has logged in	
Post-condition	Users can edit profile information	

#### 3.5.2 Flow of Events

#### 3.5.2.1 Basic Flow

Step	Description
1.	Users click on My profile link on header
2.	The system displays My profile page
3.	User update information and click save
4.	The system validates the information and save the changes for user
5.	The flow ends

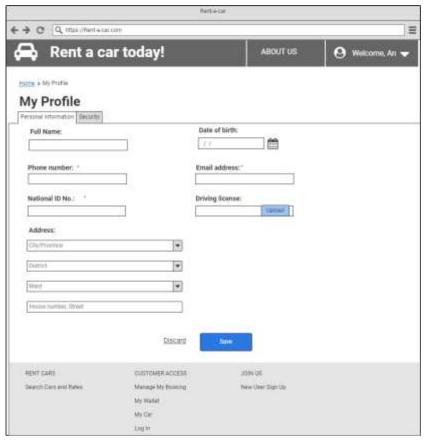
# 3.5.2.2 Exception flow 1 – Users cancels the changes

Step	Description
1	At step 3, user click Cancel
2	System discard the changes
3	The flow ends

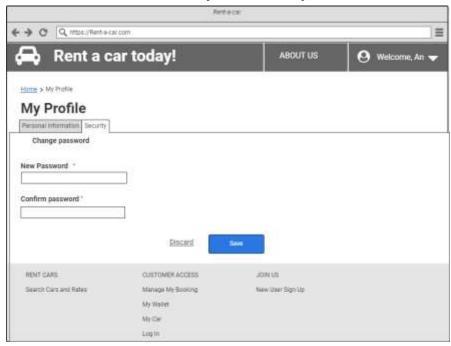
## 3.5.2.3 Exception flow 2 – User doesn't provide required information

Step	Description
1	At step 3, user misses any of the required information or wrong information format
2	The system returns error message ME003- "This field is required"

#### 3.5.3 Mock-up Screen



Screen 5.1. Edit Profile – Personal information



Screen 5.2. Edit Profile - Change password

#### 3.5.4 Screen Description

#### 3.5.4.1 My Profile / Personal information

REF 1.518 1.518 1.518 2.518 1.7F5 2.518 1.7F5	REF	Field Name	Control Type	Data Type	Description
-----------------------------------------------	-----	------------	--------------	-----------	-------------

1.	Page title	Text	N/A	Display "My Profile"
2.	Full Name	Text field	Text	Display user's full name, allow to edit
3.	Date of birth	Text field and date picker	Date	Allow to enter date of birth
4.	Phone number	Text field	Numeric and (+)	Display user's phone number, allow to edit
5.	Email address	Text field	All characters	Display user's email address. Do not allow to edit.
6.	National ID No.	Text field	Number	Allow to enter National ID No.
7.	Driving license	File Upload	Media file (image as png, jpg,)	Allow to upload driving license
8.	Address	Search box	Text	Allow to click and search for an address. Same rule as in the flow to rent car (UC10)
9.	City/Province	Dropdown	N/A	Allow to select a City/Province
				Same rule as in the flow to rent car (UC10)
10.	District	Dropdown	N/A	Allow to select a District
				Same rule as in the flow to rent car (UC10)
11.	Ward	Dropdown	N/A	Allow to select a Ward
				Same rule as in the flow to rent car (UC10)
12.	House	Text field	N/A	Allow to enter Street name and number
	number, Street			Same rule as in the flow to rent car (UC10)
13.	Cancel	Button	N/A	Allow to click and discard all changes
14.	Save	Button	N/A	Allow to click, validate and save information

## 3.5.4.2 My Profile / Change password

REF	Field Name	Control Type	Data Type	Description
1.	New password	Text field	Password	Allow to enter New password. Value will be masked as user types
2.	Confirm password	Text field	Password	Allow to enter Confirm password. Value will be masked as user types
3.	Cancel	Button	N/A	Allow to click and discard all changes
4.	Save	Button	N/A	Allow to click, validate and save information

## 3.5.5 Business Rules

Business	Business Rule Description
Rule ID	
BRL-05-01	All password fields will be masked as user types
BRL-05-02	Current password needs to match, if not, display error message: "Current password is incorrect."
BRL-05-03	New password and Confirm need to match, if not, display error message: "New password and Confirm password don't match"

# 3.6 UC06: View Homepage as guest

## 3.6.1 Overview.

ID and Name	View Homepage
Description	This use case allows users to view the Homepage

Actor	Guest users	
Trigger	Users access the system	
Pre-condition	User is not logged in (Guest users)	
Post-condition	Users can view the Homepage as guest	

## 3.6.2 Flow of Events

#### 3.6.2.1 Basic Flow

Step	Description		
1.	Guest users access the system		
2.	The system displays Homepage		
3.	Users view the homepage as guest		
4.	The flow ends		

#### 3.6.3 Mock-up Screen



Screen 6.1. Homepage for Guest

#### 3.6.4 Screen Description

#### 3.6.4.1 Homepage screen for Guest

REF	Field Name	Control type	Data Type	Description
1.	Header	Icon and text link	N/A	Refer to Common Component

2.	Banner for customer	Text and button	N/A	<ul> <li>For customer:</li> <li>Display text: "Looking for a vehicle? You're at the right place. Choose between 100's of private cars for rent at really low prices!"</li> <li>Button "Find a Rental Car Near You", trigger UC07 – View Homepage as Customer</li> </ul>
3.	Banner for Car owner	Text and button	N/A	<ul> <li>For car owner: Display text: "Are you a car owner? List your car and make money from your asset today!"</li> <li>Button "List Your Car Today", trigger UC17 – View Homepage as Car Owner</li> </ul>
4.	Why Us?	Section title	N/A	Display title: "Why Us?"
5.	"Why Us" Section content	Icon and text	N/A	<ul> <li>Display 4 sections of information as in the mockup</li> <li>Refer to BRL-06-01</li> </ul>
6.	What people say?	Section title	N/A	Display title: "What people say?"
7.	"What people say" section content	Icon and text	N/A	<ul> <li>Display user's avatar and text</li> <li>Display up to 4 Feedback from user</li> <li>Refer to BRL-06-03</li> </ul>
	Where to find us?	Section title	N/A	Display title "Where to find us?"
8.	"Where to find us" Section content	Image and text	N/A	<ul><li>Display 6 images</li><li>Refer to BRL-06-02</li></ul>
9.	Footer	Text link	N/A	Refer to Common Component

#### 3.6.5 Business Rules

Business Rule ID	Business Rule Description		
BRL-06-01	The Why us section will have the following contents		
	<ol> <li>Save money: We have no setup or registration fees. You are only charged when you rent a car. So get started for FREE!</li> </ol>		
	<ol><li>Convenient: We have a large selection of privately owned cars to suit your needs throughout the country</li></ol>		
	<ol><li>Legal and insurance: We fully cover all rentals and even provide roadside assistance. Our rating system and extended member profile checks provide safety.</li></ol>		
	<ol> <li>24/7 support: Our team is ready to support you all along the way with our 24/7 hotline and services</li> </ol>		
BRL-06-02	Rule to display Image and text in the Where to find us section:		
	Each image is a province/city with the highest number of cars		
	For each images, display X+ car		
	X is the round down number of the car's ratings		
	Round down to the nearest 10. For e.g: 61 to 69 will be round up to 60+.		
BRL-06-03	Feedback will be from user's feedback		
	Get the top 4 recent feedback with 5 stars and has feedback content (comment)		
	For each feedback, display		
	o User icon		
	o User name		
	Feedback content		

o Ratings
<ul> <li>Date and time</li> </ul>
Refer to UC16 and UC25

# 3.7 UC07: View Homepage as Customers

## 3.7.1 Overview.

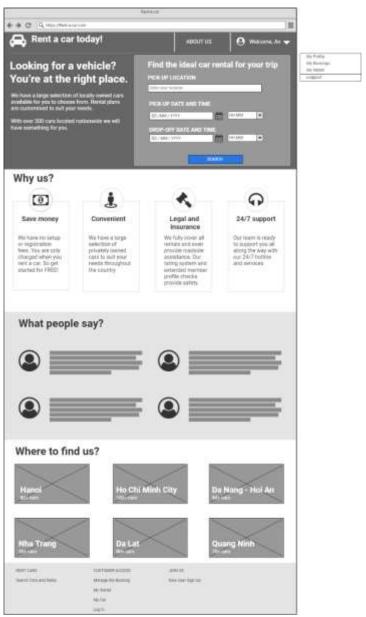
ID and Name	View Homepage as Customer	
Description	This use case allows customers to view the Homepage	
Actor	Customers	
Trigger	Users access the system	
Pre-condition	User has logged in as a customer	
Post-condition	Users can view the Homepage with the content for Customer	

# 3.7.2 Flow of Events

## 3.7.2.1 Basic Flow

Step	Description	
1.	Customer users access the system	
2.	The system displays Homepage content for Customer	
3.	Users view the homepage	
4.	The flow ends	

## 3.7.3 Mock-up Screen



Screen 7.1. Homepage as Customers

## 3.7.4 Screen Description

#### 3.7.4.1 Homepage screen for Customer

REF	Field Name	Control Type	Data Type	Description
1.	Header	Icon and text link	N/A	Refer to Common Component
2.	Marketing title	Title	Text	Display "Looking for a vehicle? You're at the right place."
3.	Marketing content	Text content	Text	Display "We have a large selection of locally owned cars available for you to choose from. Rental plans are customized to suit your needs. With over 300 cars located nationwide we will have something for you."
4.	Search area	Text and button	N/A	Refer to UC08
5.	Why Us	Content section	N/A	Section title and content are the Same as in Homepage as Guest – refer to UC06

6.	What people	Content section	N/A	Section title and content are the Same as in Homepage as
	say			Guest – refer to UC06
7.	Where to find	Content section		Section title and content are the Same as in Homepage as
	us			Guest – refer to UC06
8.	Footer	Text link	N/A	Refer to Common Component

## 3.8 UC08: Search a car

#### 3.8.1 Overview.

ID and Name	Search a car		
Description	This use case allows customers to search for a car to rent		
Actor	Customer		
Trigger	Users click on the Search button on Homepage		
Pre-condition	User has logged in as Customer		
Post-condition	Users can view the list of cars that match with the search criteria		

#### 3.8.2 Flow of Events

#### 3.8.2.1 Basic Flow

Step	Description
1.	Customer logs into the system
2.	The system displays Homepage with the Search section
3.	Users enter search criteria including Location, Pickup and Return Date time
4.	The system returns the list of available cars that match with the search criteria
5.	Users view the list of search results
6.	The flow ends

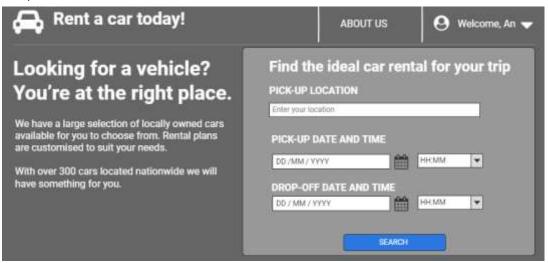
# 3.8.2.2 Exception flow 1 - Search returns to results

Step	Description
1.	At step 4, system doesn't find any cars that match with the search result
2.	System returns the no result message (ME011: "No cars match your credentials, please try again.")
3.	The flow ends

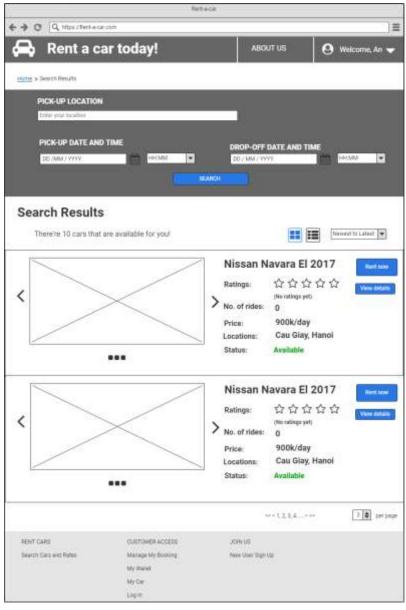
# 3.8.2.3 Alternative flow – Switch views in search results

Step	Description
1.	At step 5, user can switch between List view and Thumbnail view to view the search results.

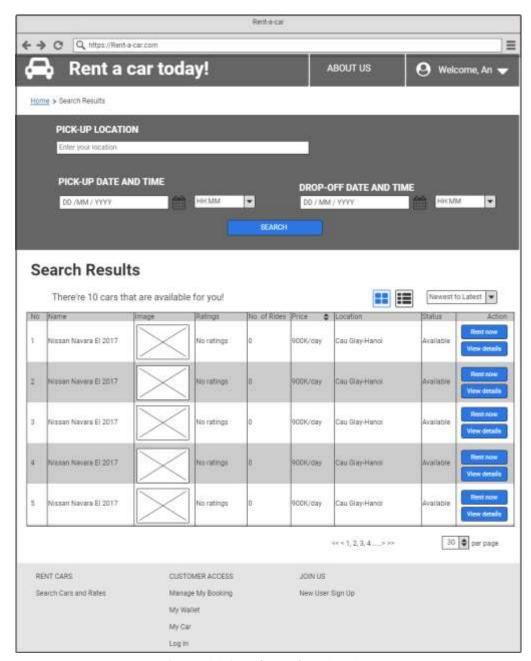
#### 3.8.3 Mock-up Screen



Screen 8.1. Search section on Homepage



Screen 8.2 Search Results - Thumbnail View



Screen 8.3 Search Results -List View

#### 3.8.4 Screen Description

#### 3.8.4.1 Search section on Homepage

REF	Field Name	Control Type	Data Type	Description
1.	Section title	Title	Text	Display: "Find the ideal car rental for your trip"
2.	Pick up	Text field	Text	Mandatory. Default to blank. Hint text: "Enter your location"
	Location			Allow to enter a location to search
				If blank, display error message ME007: "Please enter location"
3.	Pick-up Date	Calendar	Date and	Mandatory. Default to blank
	and Time	input and	Time	Allow to enter Pick-up date and time to search
		Time picker		Required field. If blank, display error message: ME008: "Please
				enter pick up date and time"

4.	Drop-off Date	Calendar	Date and	Mandatory. Default to blank
	and Time	input and	Time	Allow to enter Drop-off date and time to search
		Time picker		Required field. If blank, display error message: ME009: "Please enter drop-off date and time"
				Drop-off date and time must be later than Pick-up date and time. Refer to BRL-08-01
5.	Search	Button	Text	When clicked
				Go to Search result page
				Default in Thumbnail view
				<ul> <li>Return the list of matching cars that is available from pick- up to drop-off time.</li> </ul>

## 3.8.4.2 Search result page / Thumbnail view

REF	Field Name	Control Type	Data Type	Description
1.	Search fields	Text box	Text	Mandatory. Pre-filled the criteria as entered from Homepage. Allow to edit
2.	Section title	Label	Text	Section title: "Search result"
3.	Instruction	Label	N/A	Display text: "There're X cars that are available for you"
4.	Each result	Image and Text	N/A	For each search result, display:  Car image, allow to go back or forward to see more image  Car Name: including Brand name and model  Ratings  Number of Rides: Number of completed bookings of the car  Location: Display the District and province  Status: Refer to BRL-18-01
5.	Rent now	Button	N/A	Click to trigger the Rent car flow, UC10
6.	View details	Button	N/A	Click to go to the Car Details page, trigger UC09
7.	Switch view	Button	N/A	Refer to Common Component
8.	Sorting	Dropdown	N/A	Refer to Common Component
9.	Pagination	Buttons	N/A	Refer to Common Component

#### 3.8.4.3 Search result page / List view

REF	Field Name	Control Type	Data Type	Description
1.	List of cars in table	Table	N/A	Display the list of cars in a data grid Columns:  Name of cars Image Ratings Number of Rides Location: Display the District and province Status All information is the same as thumbnail view
2.	Switch view	Button	N/A	Refer to Common Component
3.	Sorting	Dropdown	N/A	Refer to Common Component
4	Pagination	Buttons	N/A	Refer to Common Component

#### 3.8.5 Business Rules

Business Rule ID Business Rule Description

BRL-08-01	Drop-off date and time must be later than Pick-up date and time. If not, display error message ME010: "Drop-off date time must be later and Pick-up date time, please try again."
BRL-08-02	The entered location will be used to search for the car's address. Allow partial matches.
BRL-08-03	The search results need to return the list of cars that is available for the entire period from pick-up to drop-off.
	If a car is only available for a part of the duration, it will not be included in the search results
BRL-08-04	If there's no search results, display message ME011: "No cars match your credentials, please try again."
BRL-08-05	Rule to display car ratings: Average of all the ratings for a car
	To be round up to the next 0.5. E.g:
	- 3.1 will be rounded up to 3.5
	- 3.6 will be round up to 4.0
BRL-08-06	The search results only include the available cars. Other cars of different status will not show up in the search results.

# 3.9 UC09: View Car details

# 3.9.1 Overview.

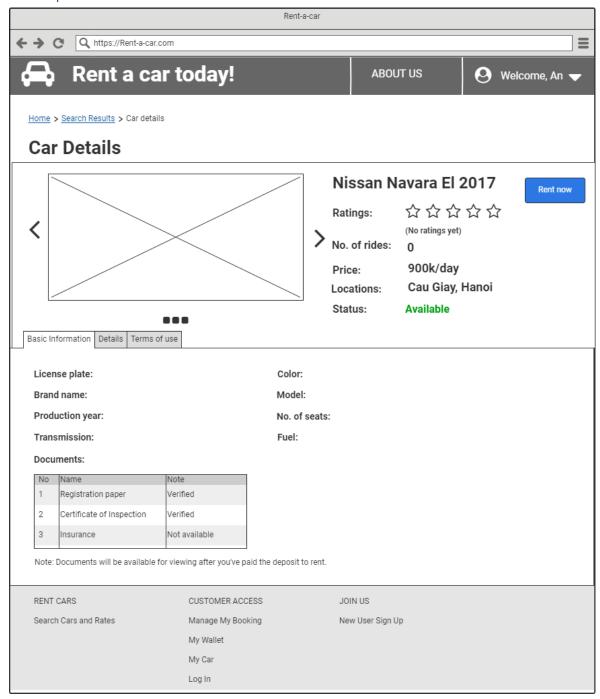
ID and Name	View Car details			
Description	This use case allows customers to view car details page			
Actor	Customer			
Trigger	Users click on View details button in Search result list			
Pre-condition	Users can access the system and retrieve search results			
Post-condition	Users can view car details page			

## 3.9.2 Flow of Events

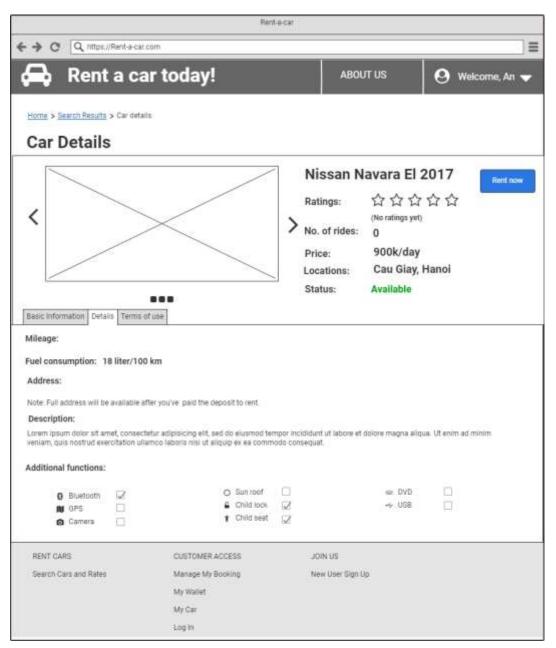
## 3.9.2.1 Basic Flow

Step	Description
1.	Users click on View details button in Search result list
2.	System displays Car details page
3.	Users view car details page
4.	The flow ends

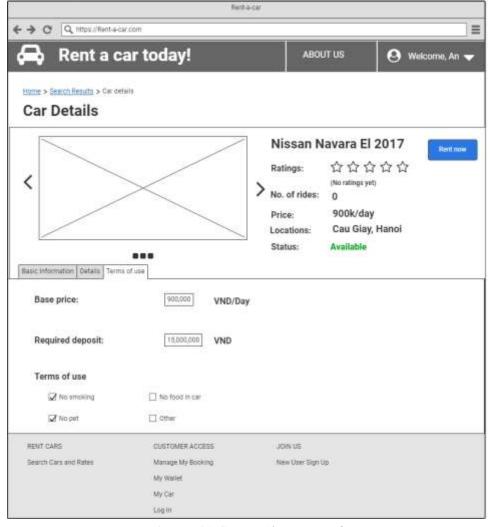
#### 3.9.3 Mock-up Screen



Screen 9.1 Car Details - Basic information



Screen 4.2 Car Details – Detailed information



Screen 4.3 Car Details - Terms of use

# 3.9.4 Screen Description

#### 3.9.4.1 Car details screen / Overview

REF	Field Name	Control Type	Data Type	Description
1.	Page title	Title	Text	Display: "Car Details"
2.	Car images	Image sliders	Image	Display the images of cars. Same rule as in search result
3.	Car Name	Label	Text	Display Car Name: Same rule as in the search result page
4.	Ratings	Label and icons	Text	Display Car Ratings. Same rule as in the search result
5.	Number of Rides	Label	Text	Display Number of Rides. Same rule as in the search result
6.	Location	Label	Text	Display Car's Location. Same rule as in the search result
7.	Status	Label	Text	Display Car's Status. Same rule as in the search result
8.	Rent now	Button	N/A	Click to trigger the Rent car flow, UC10

### 3.9.4.2 Car details screen / Basic information tab

REF	Field Name	Control Type	Data Type	Description
1.	Group of text fields for car's	Label	Text	Do not allow to edit. Include the following information:  • License plate  • Color

	basic			Brand name
	information			Model
				Production year
				No. of seats
				Transmission
				• Fuel
				Information entered by car owner. Refer UC18
2.	Documents	Datagrid	N/A	Display 3 columns:
				No.
				Name: Name of the type of documents
				Note
				There's 3 types of documents: Registration paper,
				Certificate of Inspection, Insurance
				Information entered by car owner. Refer UC18

# 3.9.4.3 Car details screen / Details tab

REF	Field Name	Control Type	Data Type	Description
11.	Group of text fields for car's details	Text	N/A	Do not allow to edit. Include the following information:  • Mileage  • Fuel commission  • Address  • Description Information entered by car owner. Refer UC18 Rule to display address: Refer to BRL-09-02
12.	Group of checkboxes for additional functions	Check boxes	N/A	Do not allow to edit. Include the following checkboxes  Bluetooth GPS Camera Sun roof Child lock Child seat DVD USB Information entered by car owner. Refer UC18

# 3.9.4.4 Car details screen / Terms of use tab

REF	Field Name	Control Type	Data Type	Description
1.	Group of text fields for car's price information	Text	N/A	Do not allow to edit. Include the following information:  Base price per day Required deposit Information entered by car owner. Refer UC18

2.	Group of	Checkboxes	N/A	Do not allow to edit.
	checkboxes			Include the following checkboxes
	for Terms of			No smoking
	use			No pet
				No food in cars
				Other
				Information entered by car owner. Refer UC18

### 3.9.5 Business Rules

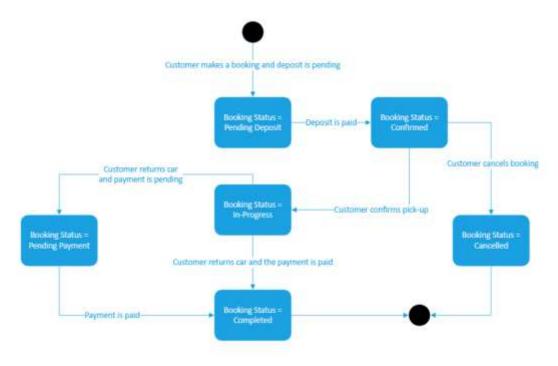
Business Rule ID	Business Rule Description	
BRL-09-01	Car's documents are only available for customer to view and download if they've booked the car	
	For Customer that hasn't booked the car, the document is only displayed as "Verified"	
	Display a note: "Note: Documents will be available for viewing after you've paid the deposit to re	
BRL-09-02	Detailed address information will only be displayed to customer once they've booked the car.	
	For Customer that hasn't booked the car, display a note: "Note: Full address will be available after you've paid the deposit to rent."	

# 3.10 UC10: Rent a car

### 3.10.1 Overview.

ID and Name	Rent a car	
Description	This use case allows customers to make a booking to rent a car	
Actor	Customers	
Trigger	Users click on Rent now button in Car details page	
Pre-condition	User has access to the system and enter booking details to search for a car	
	User has logged in to the system	
Post-condition	User can make a booking to rent a car	

# 3.10.2 State Diagram for Bookings



### 3.10.3 Flow of Events

#### 3.10.3.1 Basic Flow

Step	Description
1.	Users click on Rent Now button in Car details page
2.	System displays the Booking flow, Step 1: Booking Information
3.	Users enter booking information and click Next
4.	System displays the Booking flow, Step 2: Payment
5.	Users select payment option and click Next
6.	System displays the Booking flow, Step 3: Finish
7.	User review booking details
8.	System sends a notification email to car owner (Email template EM02)
9.	The flow ends

# 3.10.3.2 Exception flow – Users cancel booking flow

Step	Description
1.	From step 3 or 5, users click on Cancel text link
2.	System display dialog: "Are you sure you want to cancel the booking flow?"
3.	User select Yes option
4.	System cancels the booking flow
5.	User is directed back to Homepage
6.	The flows end

# 3.10.3.3 Alternative flow 1 – Users start booking flow the Search result list

Step	Description
1.	In the basic flow, step 1, user click on the Rent Now button in the Search result list
2.	System continues Step 2

# 3.10.3.4 Alternative flow 2 – User start booking flow from the Car details list without booking information

Step	Description
1.	In the basic flow, step 1, user click on the Rent Now button in Car details page
2.	System cannot retrieve booking information (Pick up Location, Pick up date time, return date time) for some reasons
3.	System displays dialog for users to enter Pick-up Location, Pick-up date time and Return date time
4.	Users enter the required booking information
5.	System display the booking flow, continues from Step 2 in the Basic flow

# 3.10.3.5 Alternative flow 3 – Users edit booking information

Step	Description					
1.	n the basic flow, in the Booking flow screens, user clicks on "Change details" button					
2.	System display dialog for patient to edit booking details (Pickup Location, Pickup date time, return date time)					
3.	User enter the new booking details and click submit					
	System check if the current car is available for the new booking details					
4.	<ul><li>If yes, continue step 5 below</li><li>If no, continue step 6 below</li></ul>					
5.	If yes, system continue the current booking flow for user					

6.	If no, system display a dialog informing user that the current car is NOT available for the new booking period, there's two option,				
	<ul> <li>User can confirm to discard the change -&gt; Continue step 7</li> <li>Go back to Homepage to conduct another search -&gt; Continue step 8</li> </ul>				
7.	If user confirm to discard the change, system continues the current booking flow for user				
8.	If user go back to homepage -> System discard the current booking flow, direct user back to homepage to conduct another search.				

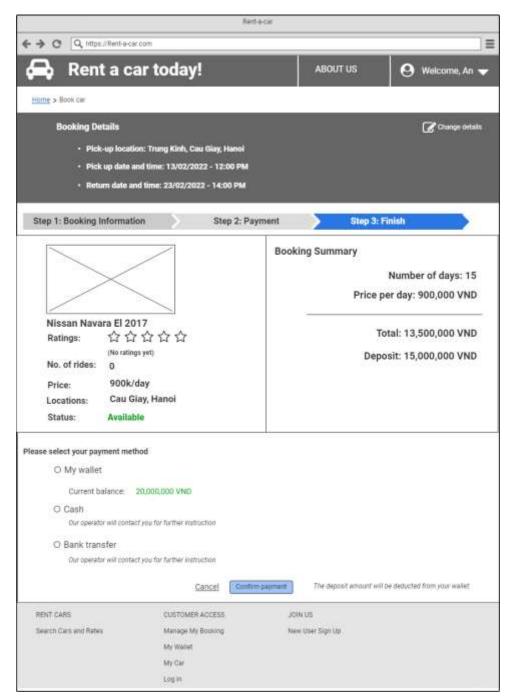
# 3.10.3.6 Alternative flow 4 – Users has not logged in before clicking Rent now

Step	Description				
1.	In the basic flow, in step 1, user has not logged in and click on "Rent Now" button				
2.	System display Login dialog for users to logged in				
3.	User enter account credentials to log in				
4.	System validate account credentials and allow users to log in				
5.	Continue Step 2 in the basic flow				

# 3.10.4 Mock-up Screen



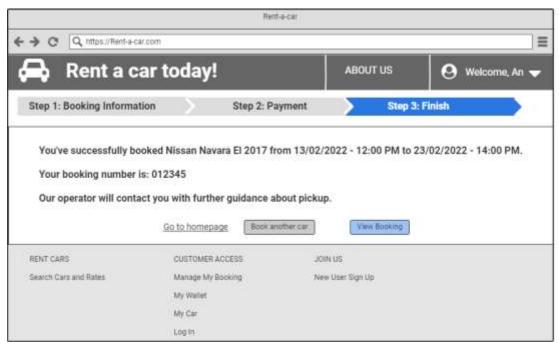
Screen 10.1 Book a car - Step 1 - Booking Information



Screen 10.2. Book a car – Step 2 – Payment



Screen 10.2.1. Book a car – Step 2 – Payment – Insufficient balance



Screen 10.3. Book a car - Step 3 - Finish

### 3.10.5 Screen Description

### 3.10.5.1 Book a car/ Booking details

REF	Field Name	Control Type	Data Type	Description
1.	Booking details	Text	Text	Display the search criteria that user has entered for the car:  - Pickup location  - Pickup date and time  - Return date and time
2.	Change details	Button	Text	Allow to click and change the booking details, display the fields as in the Search section on Homepage for user to edit.

# 3.10.5.2 Book a car/ Step 1 – Car information

REF	Field Name	Control Type	Data Type	Description	
1.	Car image	Image	Image	Display car image (Front image)	
2.	Car Name	Label	Text	Display Car Name: Same rule as search result	
3.	Ratings	Icons	Text	Display Car Ratings. Same rule as search result	
4.	Number of	Label	Text	xt Display Number of Rides	
	Rides			Same rule as search result	
5.	Location	Label	Text	Display Car Location. Same rule as search result	
6.	Status	Label	Text	Display Car Status. Same rule as search result	

### 3.10.5.3 Book a car/ Step 1 – Booking summary

REF	Field Name	Control Type	Data Type	Description
1.	Booking summary	Title	Text	Display "Booking title"
2.	Number of days	Title	Text	Display the number of days to rent.
3.	Price per day	Title	Text	Display the price per days

4.	Total	Title	Text	Display the total amount
5.	Deposit	Title	Text	Display the deposit amount

# 3.10.5.4 Book a car/ Step 1 – Booking information/ Renter's information

REF	Field Name	Control Type	Data Type	Description
1.	Renter's information	Section title	Text	Display "Renter's information"
2.	Full Name	Text field	Text	Display user's full name, allow to edit
3.	Date of birth	Text field and date picker	Date	Allow to enter date of birth
4.	Phone number	Text field	Numeric and (+)	Display user's phone number, allow to edit
5.	Email address	Text field	All characters	Display user's email address, allow to edit
				Must be email address format
6.	National ID No.	Text field	Text	Display from user's profile if any.
				Allow to enter National ID No.
7.	Driving license	Text field	Text	Display from user's profile if any.
				Allow to upload driving license
8.	Address	Search box	Text	Display from user's profile if any.
				Allow to click and search for an address
				Integrate with address/ location service to get address
				Display auto-suggestion when user types
				After user selects an address, fil in the following fields
9.	City/Province	Dropdown	N/A	Display from user's profile if any. Allow to select a City/Province
				List of values: Pre-defined. Refer to LI01
10.	District	Dropdown	N/A	Display from user's profile if any.
				Allow to select a District
				List of values: Pre-defined. Refer to LI01
11.	Ward	Dropdown	N/A	Display from user's profile if any.
				Allow to select a Ward
				List of values: Pre-defined. Refer to LI01
12.	House number,	Text field	Text	Display from user's profile if any.
	Street			Allow to enter Street name and number

# 3.10.5.5 Book a car/ Step 1 – Booking information/ Driver's information

REF	Field Name	Control Type	Data Type	Description
1.	Driver's information	Section title	Text	Display "Driver's information"
2.	Full Name	Text field	Text	Same rule as Renter's information
3.	Date of birth	Text field	Date	Same rule as Renter's information
4.	Phone number	Text field	Numeric and (+)	Same rule as Renter's information
5.	Email address	Text field	All characters	Same rule as Renter's information
6.	National ID No.	Text field	Number	Same rule as Renter's information
7.	Driving license	Text field	Number	Same rule as Renter's information

8.	Address	Search box	Text	Same rule as Renter's information
9.	City/Province	Dropdown	N/A	Same rule as Renter's information
10.	District	Dropdown	N/A	Same rule as Renter's information
11.	Ward	Dropdown	N/A	Same rule as Renter's information
12.	House number, Street	Text field	Text	Same rule as Renter's information
13.	Cancel	Button	N/A	Discard the flow and go back to previous page
14.	Next	Button	N/A	Click to validate information and go to next step

# 3.10.5.6 Book a car/ Step 2 – Payment

REF	Field Name	Control Type	Data Type	Description
1.	Payment method	Text	N/A	Display text: "Please select your payment method"
2.	My wallet	Radio button	Text	Default to selected. Allow to select/unselect
				Display current balance of the wallet
3.	Cash	Radio button	Text	Allow to select/unselect
				Display instruction text: "Our operator will contact you for further instruction"
4.	Bank Transfer	Radio button	Text	Allow to select/unselect
				Display instruction text: "Our operator will contact you for further instruction
5.	Cancel	Button	N/A	Discard the flow and go back to previous page
6.	Confirm payment	Button	N/A	If the selected method is my wallet, display instruction: "The deposit amount will be deducted from your wallet." Click to confirm payment and go to next step

# 3.10.5.7 Book a car/ Step 3 – Finish

REF	Field Name	Control Type	Data Type	Description
1.	Confirmation text	Text	N/A	"You've successfully booked <car name=""> from <pickup date="" time=""> to <return date="" time="">.  Your booking number is: <booking no.=""> Our operator will contact you with further guidance about pickup."</booking></return></pickup></car>
2.	Go to Homepage	Text link	N/A	Allow to click and go back to Homepage
3.	Book another car	Button	N/A	Allow to click and trigger another booking flow.
4.	View booking	Button	N/A	Allow to click and go to booking details page. Trigger UC12

# 3.10.6 Business Rules

Business Rule ID	Business Rule Description		
BRL-10-01	Booking Number is auto-generated by the system.		
	Rule to generate: YYYYMMdd- <sequence number=""></sequence>		
	In which YYYYMMdd is the date the booking is made. Sequence number is auto-incremented by the system		
BRL-10-02	Rule to calculate Total Amount of a booking		
	- Total Amount = Number of days X Price per day		
BRL-10-03	There're 3 types of payment method:		
- My wallet: users will pay via the wallet's balance, which has to be equal to or m			
	Deposit amount of the car.		
	- Cash: The system's operators will contact users off-line to retrieve payment		

	- Bank Transfer: The system operators will contact users off-line to retrieve payment.
BRL-10-04	At the time of booking, user will pay the deposit first, then when user returns the car, system will calculate the exceeds or deficits amount to finish payment
	<ul> <li>If the deposit amount exceeds the total (more than), then system will return the money to user's wallet (regardless of the initial payment method)</li> </ul>
	<ul> <li>If the deposit amount is less than the total, then system will continue to charge users via user's wallet, cash or bank transfer. User can select an option to finish payment.</li> </ul>
BRL-10-05	For cash and bank transfer, after the booking is made, its status will be "Pending deposit"
	Once the operator receives payment (off-line) they will update the status to "Confirmed"
BRL-10-06	For My wallet, rule to display current amount:
	<ul> <li>If the amount equal to or more than the deposit, display in green color</li> <li>When user confirms payment, the deposit will be deducted from My wallet</li> </ul>
	- If the amount equal to or more than the deposit, display in red color
	<ul> <li>When user confirms payment, display an error to inform users to top-up and try again</li> </ul>
	When the deposit is deducted successfully from my wallet, the booking is made and the status set to "Confirmed"
BRL-10-07	Rule to calculate Number of days: Return date – Pickup date + 1, (including both ends)
BRL-10-08	Rule for driving license:
	- If driver is different from renter: Then the driving license is required for driver, optional for renter
	If driver is same as renter: Driving license is required
BRL-10-09	User's information will be retrieved from their profile and can be edited in Renter's information but it will not be updated to user's profile.
	User's initial email address in Profile will be kept as user's login credentials.
BRL-10-10	Notification email content: Refer to Appendices

# 3.11 UC11: View Booking List

# 3.11.1 Overview.

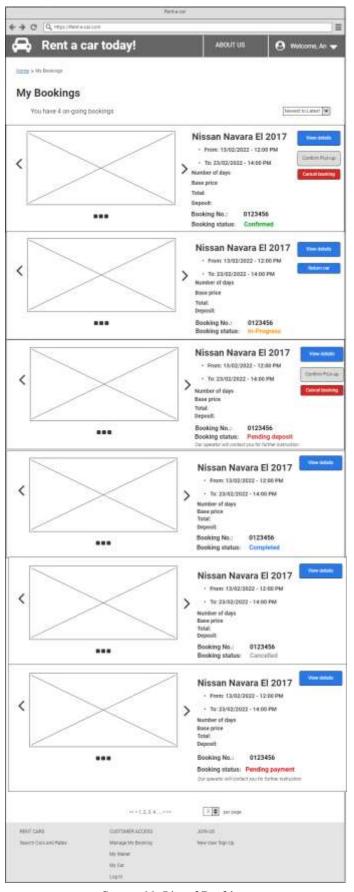
ID and Name	View Booking List	
Description	This use case allows customers to view their list of bookings	
Actor	Customers	
Trigger	Users click on My Bookings menu on header	
Pre-condition	Users has logged into the system	
Post-condition	Users can view the list of bookings	

# 3.11.2 Flow of Events

# 3.11.2.1 Basic Flow

Step	Description		
1.	Users click on arrow button on header		
2.	System display list of dropdown menu		
3.	Users click on My Bookings		
4.	System displays list of bookings		
5.	The flow ends		

# 3.11.3 Mock-up Screen



Screen 11. List of Bookings

# 3.11.4 Screen Description

# 3.11.4.1 My Bookings page

REF	Field Name	Control Type	Data Type	Description	
1.	Page title	Image	Image	Display "My Bookings"	
2.	Booking information	Image and Text	Text	For each booking, display:  Car image, allow to go back or forward to see more images  Car Name, including Brand name and model  From: Pickup date and time  To: Return date and time  Number of days  Base price  Total  Deposit  Booking number  Booking Status: Refer to BRL-11-01	
3.	View details	Button	N/A	Click to go to car details page	
4.	Confirm pick-up	Button	N/A	Refer to UC14	
5.	Return car	Button	N/A	Trigger UC15	
6.	Cancel	Button	N/A	Trigger UC13	
7.	Sorting	Dropdown	N/A	Refer to Common Component	
8.	Pagination	Buttons	N/A	Refer to Common Component	

# 3.11.5 Business Rules

Business Rule ID	Business Rule Description				
BRL-11-01	Booking Status includes:				
	<ul> <li>Pending deposit: when the booking is made and the deposit is pending</li> <li>Confirmed: when car owner confirms that he/she has received the deposit</li> <li>In-progress: when customer has confirmed pick-up of the car</li> <li>Pending Payment: when customer returns car but the payment is pending</li> <li>Completed: When car owner confirms that he/she has received the payment</li> <li>Cancelled: When the booking is cancelled.</li> </ul>				
BRL-11-02	Rule to display buttons based on booking status:				
	No.	Booking status	Buttons		
	1	Confirmed	<ol> <li>View details</li> <li>Confirm pick-up</li> <li>Cancel</li> </ol>		
	2	Pending deposit	View details     Cancel		
	3	In-progress	View details     Return car		
	4	Pending payment	View details		
	5	Completed	View details		
	6	Cancelled	View details		

# 3.12 UC12: Edit Booking Details

### 3.12.1 Overview.

ID and Name	Edit Booking details	
Description	This use case allows customers to view the booking details after renting a car	
Actor	Customers	
Trigger	Users select a booking from Booking list	
Pre-condition	User has logged in and has made a booking	
Post-condition	User can view booking details	

#### 3.12.2 Flow of Events

# 3.12.2.1 Basic Flow

Step	Description		
1.	Customers select a booking from the Booking list		
2.	The system displays the booking details page		
3.	User can view and edit some information		
4.	The flow ends		

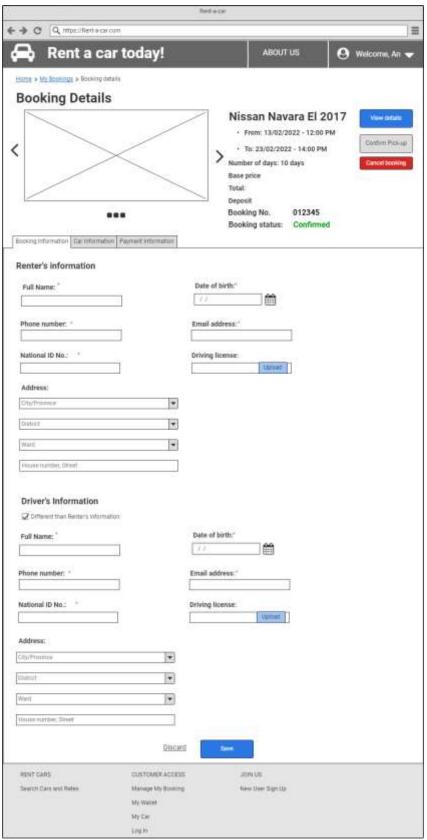
# 3.12.2.2 Exception flow 1 – Cannot edit information when the booking is in-progress, pending payment, completed or cancelled

Step	Description
1.	At step 3, if the booking status is In-Progress, Pending Payment, Completed or Cancelled
2.	The system disabled all fields, do not allow customer to edit

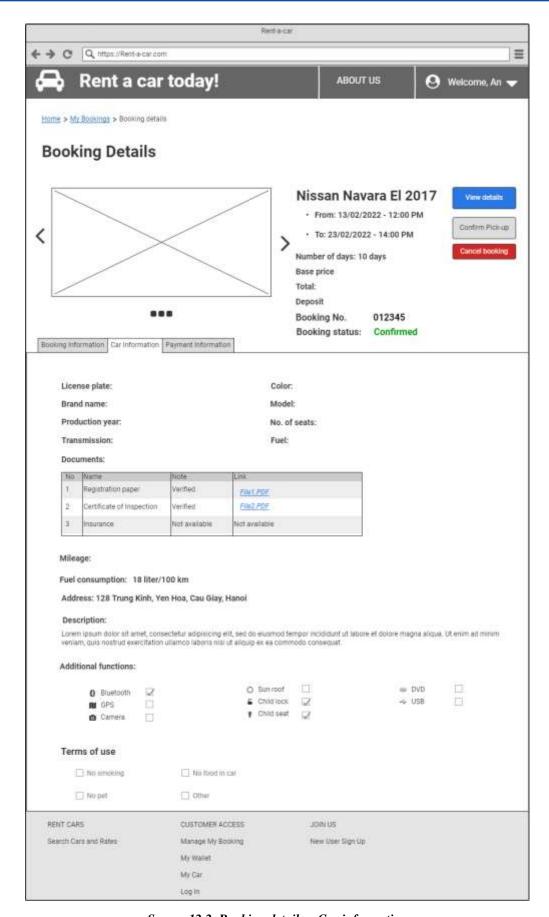
# 3.12.2.3 Alternative flow 1 – User click on View booking at Step 3 of the booking flow

Step	Description
2.	In step 3 of booking flow from UC07, user clicks on View booking button
3.	System display the booking, continue from step 2 in the basic flow

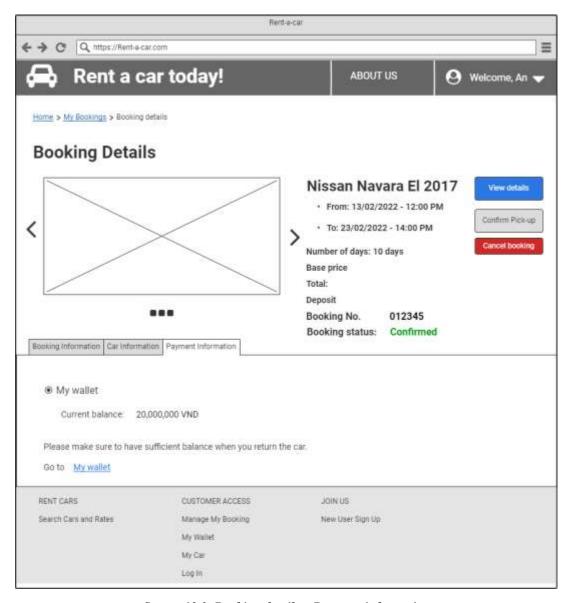
# 3.12.3 Mock-up Screen



Screen 12.1. Booking details - Booking information



Screen 12.2. Booking details - Car information



Screen 12.3. Booking details - Payment information

#### 3.12.4 Screen Description

# 3.12.4.1 Booking details page/ Overview

REF	Field Name	Control	Data Type	Description
		Type		
1.	Car image	Image	Image	Display car images. Same rule as in the search result page
2.	Car Name	Label	Text	Display Car Name: Same rule as in the search result page
3.	From	Label	Text	Display pick up date and time
4.	То	Label	Text	Display return up date and time
5.	Number of days	Title	Text	Display the number of days to rent.
6.	Price per day	Title	Text	Display the price per days
7.	Total	Title	Text	Display the total amount
8.	Deposit	Title	Text	Display the deposit amount
9.	Booking No.	Title	Text	Display Booking number
10.	Booking status	Title	Text	Display Booking status. Refer to business rule

11.	View car details	Button	N/A	Click to go to Car details page
12.	Confirm pick-up	Button	N/A	Refer to UC14
13.	Return car	Button	N/A	Refer to UC15
14.	Cancel booking	Button	N/A	Refer to UC16

# 3.12.4.2 Booking details page/ Booking information/ Renter's information

REF	Field Name	Control Type	Data Type	Description
1.	Renter's information	Section title	Text	Display "Renter's information"
2.	Full Name	Text field	Text	Display the entered value, allow to edit
3.	Date of birth	Text field and date picker	Date	Display the entered value, allow to edit
4.	Phone number	Text field	Numeric and (+)	Display the entered value, allow to edit
5.	Email address	Text field	All characters	Display the entered value, allow to edit. Must be email address format
6.	National ID No.	Text field	Number	Display the entered value, allow to edit
7.	Driving license	Text field	Number	Display the entered value, allow to edit
8.	Address	Search box	Text	Display the entered value, allow to edit
9.	City/Province	Dropdown	N/A	Display the entered value, allow to edit
10.	District	Dropdown	N/A	Display the entered value, allow to edit
11.	Ward	Dropdown	N/A	Display the entered value, allow to edit
12.	House number, Street	Text field	Text	Display the entered value, allow to edit

# 3.12.4.3 Booking details page/Booking information/ Driver's information

REF	Field Name	Control	Data Type	Description	
		Туре			
1.	Driver's information	Section title	Text	Display "Driver's information"	
2.	Full Name	Text field	Text	Display the entered value, allow to edit	
3.	Date of birth	Text field and date picker	Date	Display the entered value, allow to edit	
4.	Phone number	Text field	Numeric and (+)	Display the entered value, allow to edit	
5.	Email address	Text field	All characters	Display the entered value, allow to edit	
6.	National ID No.	Text field	Number	Display the entered value, allow to edit.	
7.	Driving license	Text field	Number	Display the entered value, allow to edit	
8.	Address	Search box	Text	Display the entered value, allow to edit	
9.	City/Province	Dropdown	N/A	Display the entered value, allow to edit	
10.	District	Dropdown	N/A	Display the entered value, allow to edit	
11.	Ward	Dropdown	N/A	Display the entered value, allow to edit	
12.	House number, Street	Text field	Text	Display the entered value, allow to edit	
13.	Discard	Button	N/A	Discard the flow and go back to previous page	
14.	Save	Button	N/A	Click to validate information and save changes	

# 3.12.4.4 Booking details page/ Car information

REF Field Name	Control Type	Data Type	Description
ILLI I I ICIU INAIIIC	Continui Type	Dala Type	Description

1.	Group of text fields for car's basic information	Text	N/A	Do not allow to edit. Include the following information:  License plate  Color  Brand name  Model  Production year  No. of seats  Transmission  Fuel Information entered by car owner. Refer UC18
2.	Documents	Datagrid	N/A	Display the file name for the documents, allow to click and download.  Information entered by car owner. Refer UC18
3.	Group of text fields for car's details	Text	N/A	Do not allow to edit. Include the following information:  Mileage Fuel commission Address Description Information entered by car owner. Refer UC18
4.	Address	Text	N/A	Display car's address Information entered by car owner. Refer UC18
5.	Group of checkboxes for additional functions	Checkboxes	N/A	Do not allow to edit. Include the following checkboxes  Bluetooth GPS Camera Sun roof Child lock Child seat DVD USB Information entered by car owner. Refer UC18
6.	Group of checkboxes for Terms of use	Checkboxes	N/A	Do not Allow to edit. Include the following checkboxes  No smoking No pet No food in cars Other Information entered by car owner. Refer UC18

# 3.12.4.5 Booking details page/ Payment

REF	Field Name	Control	Data Type	Description
KEF		Type		

1.	Display payment	Text	N/A	Do not allow to edit. Refer to business rules
	information			

# 3.12.5 Business Rules

Business Rule ID	Business Rule Description	
BRL-12-01	Only allow edit booking if the booking status is:	
	Confirmed	
	Pending deposit	
	Do not allow to edit booking if the booking status is:	
	In-Progress	
	Cancelled	
	Pending payment	
	Completed	
BRL-12-02	Rule to display payment:	
	If payment is my wallet -> Display current wallet balance and instruction: "Please make	
	sure to have sufficient balance when you return the car." Display link to go to my wallet	
	If payment is Cash or bank transfer	
	o If the status is pending deposit or pending payment, display instruction: "Our	
	operator will contact you to for further instruction"	
	If the status is other status, display the option and text: "Payment fulfilled"	
BRL-12-03	Rule to display buttons based on booking status: Same as in list view	

# 3.13 UC13: Cancel booking

### 3.13.1 Overview.

ID and Name	Cancel a booking	
Description This use case allows users to cancel a booking		
Actor	Customer	
Trigger	Customer click on Cancel button in Booking details page	
Pre-condition Users logged in to the system as Customer		
Post-condition The booking status is updated to Cancelled		

# 3.13.2 Flow of Events

# 3.13.2.1 Basic Flow

Step	Description	
1.	Customer click Cancel button in Booking details page	
2.	System display confirmation message "Are you sure you want to cancel this booking?"	
3.	User can select Yes to confirm	
4. The system updates the booking status to Cancelled		
5.	System returns the deposit to customer's wallet	
6.	System sends a notification email to car owner (Email template EM03)	
7.	The flow ends	

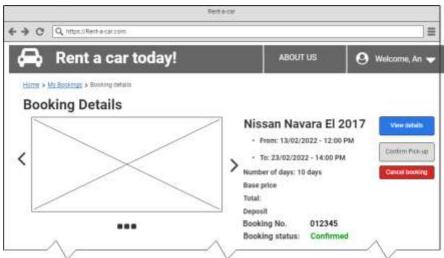
# 3.13.2.2 Alternative flow 1 – Cancel booking from Booking list

Step	Description	
1	In booking list page, user click Cancel button	
2	Continue step 2 in the basic flow	

# 3.13.2.3 Exception flow 1 – User cancels the flow

Step	Description	
1	At step 3, user selects No	
2	System discards the flow and no changes are made	

### 3.13.3 Mock-up Screen



Screen 13. Cancel Booking - Button

# 3.13.4 Screen Description

#### 3.13.4.1 Cancel button

REF	Field Name	Control Type	Data Type	Description
1	Cancel	Button	N/A	Allow to click and cancel the booking. Change booking status to Cancelled. Rule to display: Refer to BRL-13-01

#### 3.13.5 Business Rules

Business Rule ID	Business Rule Description		
BRL-13-01	Only allows customer to cancel booking if booking status is:		
	- Confirmed		
	- Pending deposit		
	- Stopped		
	If the booking is either In-progress, Completed or Pending payment -> Do not allow to cancel.		
	The button will be hidden entirely		
BRL-13-02	After customer has cancelled a booking, the deposit will be returned to customer's wallet		
BRL-13-03	Notification email content: Refer to Appendices		

# 3.14 UC14: Confirm Pick-up

#### 3.14.1 Overview.

ID and Name	Confirm Pick-up		
Description	This use case allow customers to confirm picking up a car and change booking status		
Actor	Customer		
Trigger	Customer click on Confirm Pick-up button in Booking details page		
Pre-condition	Users logged in to the system as Customer		
Post-condition	The booking status is updated to In-Progress		

#### 3.14.2 Flow of Events

#### 3.14.2.1 Basic Flow

Step	Description		
1.	Customer click Confirm Pick-up button in Booking details page		
2.	System display confirmation message "Are you sure you want to confirm pick-up?"		
3.	User can select Yes to confirm		
4.	The system updates the booking status to In-Progress		
5.	The flow ends		

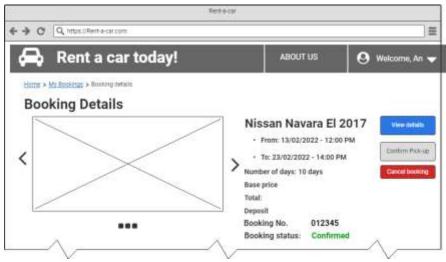
# 3.14.2.2 Alternative flow – Confirm Pick-up from the booking list

Step	Description		
1	In booking list page, user click Confirm Pick-up button		
2	Continue step 2 in the basic flow		

### 3.14.2.3 Exception flow 2 – User cancels the flow

Step	Description		
1	At step 3, user selects No		
2	System discards the flow and no changes are made		

### 3.14.3 Mock-up Screen



Screen 14. Confirm Pick-up - Button

#### 3.14.4 Screen Description

### 3.14.4.1 Booking details page/ Confirm Pick-up button

RE	Field Name	Control Type	Data Type	Description
1	Confirm	Button	N/A	Click to confirm that customer has pick-up the car, change
	Pick-up			booking status to In-Progress. Only available for certain
				booking statuses. Refer to BRL-14-01

#### 3.14.5 Business Rules

Business Rule ID	Business Rule Description	
BRL-14-01	Only allows customer to confirm pick-up if booking status is Confirmed.	
	For other status, hide the button completely.	

### 3.15 UC15: Return a car

### 3.15.1 Overview.

ID and Name	Return a car		
Description	This use case allows customers to return the car after using		
Actor	Customer		
Trigger	Customers click on Return car button in the booking details page		
Pre-condition	Customers has logged in		
	Customers has a booking that is In-progress		
Post-condition	Customer can return the car		

#### 3.15.2 Flow of Events

# 3.15.2.1 Basic Flow

Step	Description			
1.	Customer click Return button in Booking details page			
2.	If the total amount is more than the deposit amount,			
	System display confirmation dialog "Return car			
	Please confirm to return the car. The remaining amount of XXXX VND will be deducted from your wallet."			
3.	If the total amount is less than the deposit amount,			
	System display confirmation dialog "Please confirm to return the car. The exceeding amount of XXXXX			
	VND will be returned to your wallet."			
4.	User can select Yes to confirm			
5.	System updates user's wallet's balance			
6.	System updates the booking status to Completed			
7.	System sends a notification email to car owner (Email template EM04)			
8.	The flow ends			

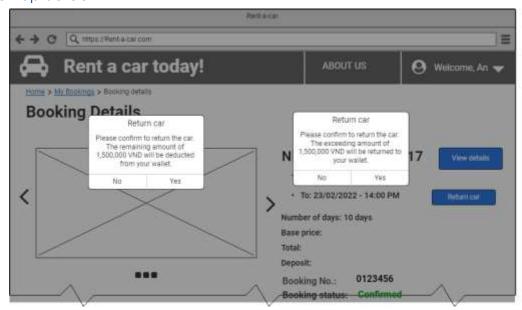
# 3.15.2.2 Exception flow 1 – User's wallet doesn't have sufficient funds

Step	Description		
1.	In case the total amount is more than the deposit amount,		
	At step 5, system validates that user doesn't have enough funds in their wallet		
	The system fails to validate the credentials and return an error message.		
2.	System return error message ME012 "Your wallet doesn't have enough balance. Please top-up your wallet and try again"		
3.	System update the booking to Pending payment		
4.	The flow ends		

# 3.15.2.3 Alternative flow 1 – User click on the Return car button from list view

Step	Description		
1.	In the booking list, user click on Return Car button		
2.	Continue from step 2 in the basic flow		

# 3.15.3 Mock-up Screen



Screen 15.1. Return a car

# 3.15.4 Screen Description

REF	Field Name	Control Type	Data Type	Description
1	Return car	Button	N/A	Allow to click and return the car

#### 3.15.5 Business Rules

Business Rule ID	Business Rule Description		
BRL-15-01	There're 2 scenarios		
	<ul> <li>The total amount is more than the deposit amount, then the remaining amount will be deducted from user's wallet</li> <li>The total amount is less than the deposit amount, then the exceeding amount will be returned to user's wallet</li> </ul>		
BRL-15-02	My wallet is the <b>only payment option available when returning a car</b> . If user doesn't have sufficient funds, there will be an instruction to guide user to top-up their wallet		
BRL-15-03	Notification email content: Refer to Email template EM04		

# 3.16 UC16: Give Ratings

#### 3.16.1 Overview.

ID and Name	Give Ratings	
Description	This use case allows customers to give ratings after returning a car	
Actor	Customer	
Trigger	Users select button to give ratings	
Pre-condition	Users has returned a car	
Post-condition	User can give ratings for a car	

#### 3.16.2 Flow of Events

#### 3.16.2.1 Basic Flow

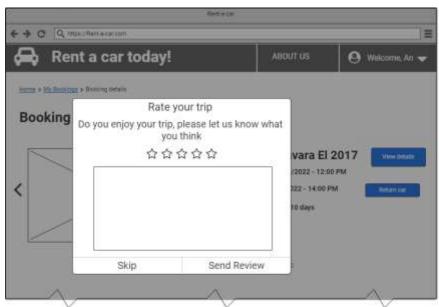
St	tep	Description	
	1.	Customer returned a car successfully	
	2.	Systems display dialog for user to give ratings	

3.	User can rate the car from 1-5	
4.	System store the rating update rating scores for the car	
5.	The flow ends	

# 3.16.2.2 Exception flow – Skip ratings

Step	Description
1.	In step 3, user choose to skip ratings
2.	System closes the dialog and go back to Homepage

### 3.16.3 Mock-up Screen



Screen 16. Give Ratings Dialog

# 3.16.4 Screen Description

# 3.16.4.1 Give Ratings dialog

REF	Field Name	Control Type	Data Type	Description
1.	Title	Text	N/A	Display "Rate your trip"
2.	Instruction	Text	N/A	Display "Do you enjoy your trip? Please let us know what you think"
3.	Ratings button	Buttons	N/A	Allow to select the star icon to rate.
4.	Review content	Text area	All characters	Allow to enter content
5.	Skip	Button	N/A	Click to skip the step
6.	Send Review	Button	N/A	Click to submit the review

# 3.17 UC17: View Homepage as Car owners

#### 3.17.1 Overview.

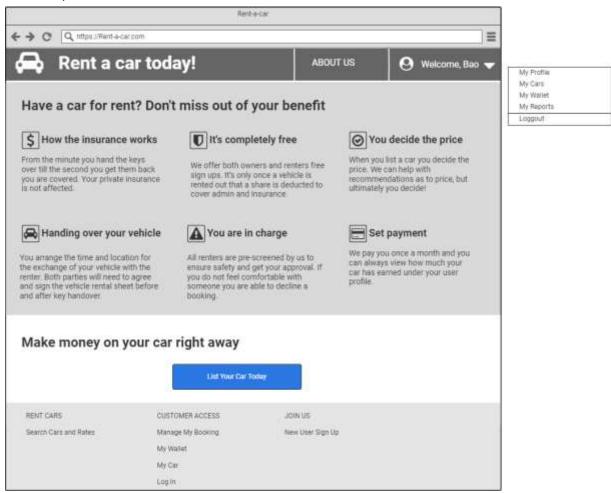
ID and Name	View Homepage as Car Owner	
Description	This use case allows Car Owners to view the Homepage	
Actor	Car Owner	
Trigger	Users access the system	
Pre-condition	User has logged in as a Car Owner	
Post-condition	Users can view the Homepage with the content for Car Owner	

#### 3.17.2 Flow of Events

#### 3.17.2.1 Basic Flow

Step	Description
1.	Car Owner users access the system
2.	The system displays Homepage content for Car Owner
3.	Users view the homepage
4.	The flow ends

#### 3.17.3 Mock-up Screen



Screen 17. Homepage

#### 3.17.4 Screen Description

#### 3.17.4.1 Homepage screen for Car owners

REF	Field Name	Control Type	Data Type	Description
1.	Header	Icon and text link	N/A	Refer to Common Component
2.	Your benefit	Section title	N/A	Display: "Have a car for rent? Don't miss out of your benefit"
3.	Your benefit Section content	Icon and Text	N/A	Display 6 sections of information as in the mockup  Refer to BRL-17-01
4.	Call to action	Title	N/A	Display: "Make money on your car right away"
5.	List your car today	Button	N/A	Click to go to the Add a car flow, trigger UC18
6.	Footer	Text link	N/A	Refer to Common Component

# 3.17.5 Business Rules

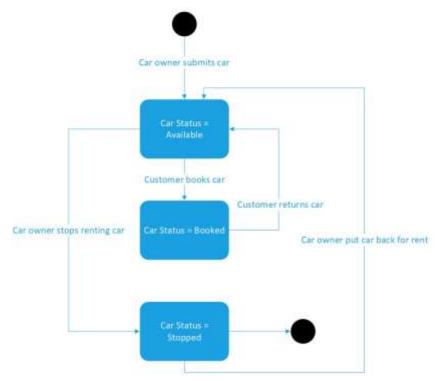
Business Rule ID	Business Rule Description				
BRL-17-01	The Benefit section will have the following contents				
	<ol> <li>How the insurance works: From the minute you hand the keys over till the second you get them back you are covered. Your private insurance is not affected.</li> <li>It's completely free: We offer both owners and renters free sign ups. It's only once a vehicle is rented out that a share is deducted to cover admin and insurance.</li> <li>You decide the price: When you list a car you decide the price. We can help with recommendations as to price, but ultimately you decide!</li> <li>Handing over your vehicle: You arrange the time and location for the exchange of your vehicle with the renter. Both parties will need to agree and sign the vehicle rental sheet before and after key handover.</li> <li>You are in charge: All renters are pre-screened by us to ensure safety and get your approval. If you do not feel comfortable with someone you are able to decline a booking.</li> <li>Set payment: We pay you once a month and you can always view how much your car has earned under your user profile.</li> </ol>				

# 3.18 UC18: Add a Car

### 3.18.1 Overview.

ID and Name	Add a car		
Description	This use case allows car owners to add a car for rent		
Actor	Car owners		
Trigger	Car owners click on Rent Your Car button on Homepage		
Pre-condition	Car owners has logged in to the system		
Post-condition	Car owners can add a car for rent		

# 3.18.2 State Diagram for Cars



# 3.18.3 Flow of Events

### 3.18.3.1 Basic Flow

Step	Description
1.	Users click on Rent Your Car button on Home page
2.	The system displays the Add a car flow – Step 1 – Basic Information
3.	Users enter information and click Next button
4.	The system displays the Add a car flow – Step 2 – Details
5.	Users enter information and click Next button
6.	The system displays the Add a car flow – Step 3 – Pricing
7.	Users enter information and click Next button
8.	The system displays the Add a car flow – Step 4 – Finish
9.	Users enter information and click Submit button
10.	System directs users to Car details page
11.	The flow ends

# 3.18.3.2 Exception flow 1 – Users cancel the flow to add a car

Step	Description		
1.	In step 2, 4, 6, 8 in the basic flow, users click Cancel text link to cancel the flow		
2.	System discard the information and direct user to Homepage		
3.	The flow ends		

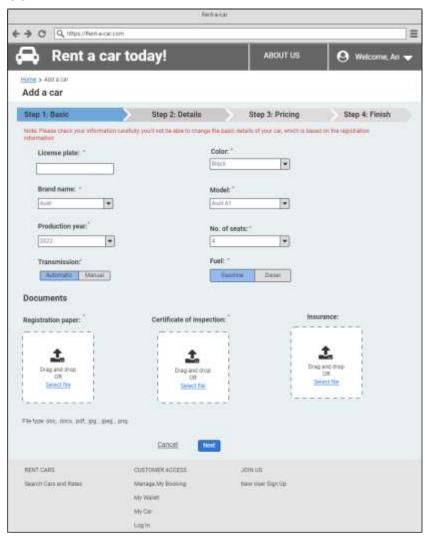
# 3.18.3.3 Alternative flow 1 – Users add a car from the List of car

Step	Description
1.	In the list of car, user clicks on Add car button
2.	Continue step 2 in the basic flow

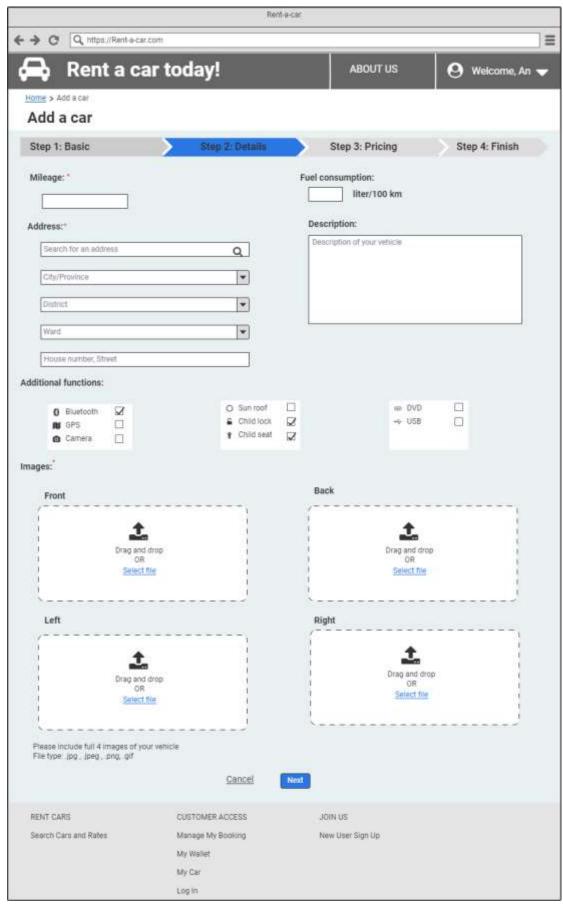
# 3.18.3.4 Alternative flow 2 – Users has not logged in before adding a car

Step	Description	
1.	In the basic flow, in step 1, user has not logged in and click on "Rent Your Car" button	
2.	System display Login dialog for users to logged in	
3.	User enter account credentials to log in	
4.	System validate account credentials and allow users to log in	
5.	Continue Step 2 in the basic flow	

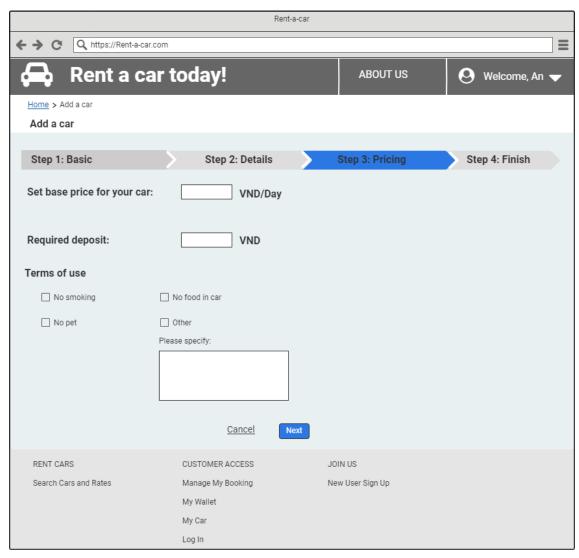
# 3.18.4 Mock-up Screen



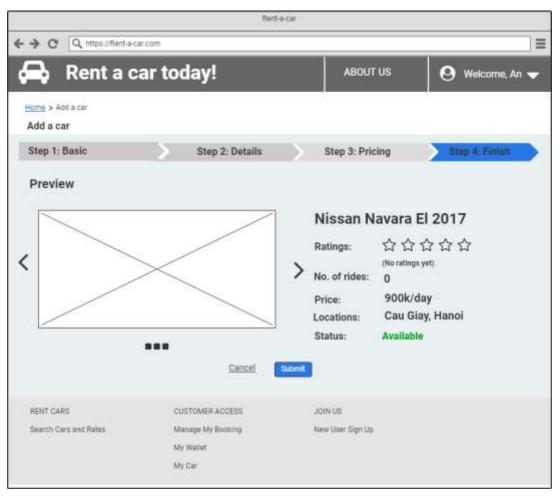
Screen 18.1. Add a car- Step 1 - Basic Information



Screen 18.2. Add a car- Step 2 - Details



Screen 18.3. Add a car- Step 3 - Pricing



Screen 18.4. Add a car- Step 4 - Finish

### 3.18.5 Screen Description

### 3.18.5.1 Add car page/ Step 1 – Basic information

REF	Field Name	Control Type	Data Type	Description
1.	Page title	Title	Text	Display: "Add a car"
2.	Instruction	Text	Text	Display: "Note: Please check your information carefully, you'll not be able to change the basic details of your car, which is based on the registration information."
3.	License plate	Text field	Text	Allow to enter license page
4.	Color	Dropdown	N/A	Allow to select a color.
				List of color: Pre-defined. Refer to LI03
5.	Brand name	Dropdown	N/A	Allow to select a brand. List of brand: Pre-defined. Refer to LI02
6.	Model	Dropdown	N/A	Allow to select a model. List of models is based on the selected brand
				List of model: Pre-defined. Refer to LI02
7.	Production	Dropdown	N/A	Allow to select production year.
	year			List of values: Pre-defined in system. From 2030 to 1990
8.	No. of seats	Text field	Number	Allow to enter No. of seats
9.	Transmission	Buttons	N/A	Allow to select between: Automatic and Manual

8.	Fuel	Buttons	N/A	Allow to select between: Gasoline and Diesel
9.	Documents	Section title	N/A	Display title "Documents"
10.	Registration paper	Button and text	N/A	Allow to browse user's device or drop and drag to upload a file. Allow to upload one file.  File types: Refer to business rule
11.	Certificate of Inspection	Button and text	N/A	Allow to browse user's device or drop and drag to upload a file. Allow to upload one file.  File types: Refer to business rule
12.	Insurance	Button and text	N/A	Allow to browse user's device or drop and drag to upload a file. Allow to upload one file.  File types: Refer to business rule
13.	Instruction	Text	N/A	Display "File type: doc, .docx, .pdf, .jpg , .jpeg , .png"
14.	Cancel	Button	N/A	Discard the flow and go back to previous page
15.	Next	Button	N/A	Click to validate information and go to next step

# 3.18.5.2 Add car page/ Step 2- Details

REF	Field Name	Control Type	Data Type	Description
1.	Mileage	Text field	Number	Allow to enter mileage
2.	Fuel	Text field	Number	Allow to enter fuel consumption
	consumption			Display unit: "liter/100km"
				fil
3.	City/Province	Dropdown	N/A	Allow to select a City/Province
				List of values: Pre-defined. Refer to LI01
4.	District	Dropdown	N/A	Allow to select a District
				List of values: Pre-defined. Refer to LI01
5.	Ward	Dropdown	N/A	Allow to select a Ward
				List of values: Pre-defined. Refer to LI01
6.	House number, Street	Text field	Text	Allow to enter Street name and number
7.	Description	Text field	Text	Allow to enter car's description
8.	Additional functions	Section title	Text	Display: "Additional functions"
9.	Bluetooth	Checkbox	Text	Allow to check/uncheck
10.	GPS	Checkbox	Text	Allow to check/uncheck
11.	Camera	Checkbox	Text	Allow to check/uncheck
12.	Sun roof	Checkbox	Text	Allow to check/uncheck
13.	Child lock	Checkbox	Text	Allow to check/uncheck
14.	Child seat	Checkbox	Text	Allow to check/uncheck
15.	DVD	Checkbox	Text	Allow to check/uncheck
16.	USB	Checkbox	Text	Allow to check/uncheck
17.	Images	Section title	Text	Display: "Images"
18.	Front image	Button	N/A	Allow to browse device or drop and drag to upload an image
				Allow to upload one file. File types: Refer to business rule
19.	Back image	Button	N/A	Same rule as Front image
20.	Left image	Button	N/A	Same rule as Front image

21.	Right image	Button	N/A	Same rule as Front image
22.	Instruction	Text	N/A	Display "Please include full 4 images of your vehicle
				File type: .jpg , .jpeg , .png, .gif "
23.	Cancel	Button	N/A	Discard the flow and go back to previous page
24.	Next	Button	N/A	Click to validate information and go to next step

# 3.18.5.3 Add car page/ Step 3- Pricing

REF	Field Name	Control Type	Data Type	Description
1.	Set base price	Text field	Number	Allow to set price for the car
	for your car			Display unit: "VND/Day"
2.	Terms of use	Section title	Text	Display: "Terms of use"
3.	No smoking	Checkbox	Text	Allow to check/uncheck
4.	No pet	Checkbox	Text	Allow to check/uncheck
5.	No food in car	Checkbox	Text	Allow to check/uncheck
6.	Other	Checkbox	Text	Allow to check/uncheck. If checked, display text field
				to specify
7.	Cancel	Button	N/A	Discard the flow and go back to previous page
8.	Next	Button	N/A	Click to validate information and go to next step

# 3.18.6 Business Rules

Business Rule ID	Business Rule Description
BRL-18-01	Car Status includes:
	<ul> <li>Available: when car owner adds a car and submit successfully</li> <li>Booked: when customer books the car successfully (regardless of whether car owner confirms the deposit or not.)</li> <li>Stopped: when car owner stops renting a car</li> </ul>
BRL-18-02	Allowed file types for documents: doc, .docx, .pdf, .jpg , .jpeg , .png
BRL-18-03	Allowed file types for images: File type: .jpg , .jpeg , .png, .gif
BRL-18-04	Users need to upload full 4 images of the car

# 3.19 UC19: View My cars

# 3.19.1 Overview.

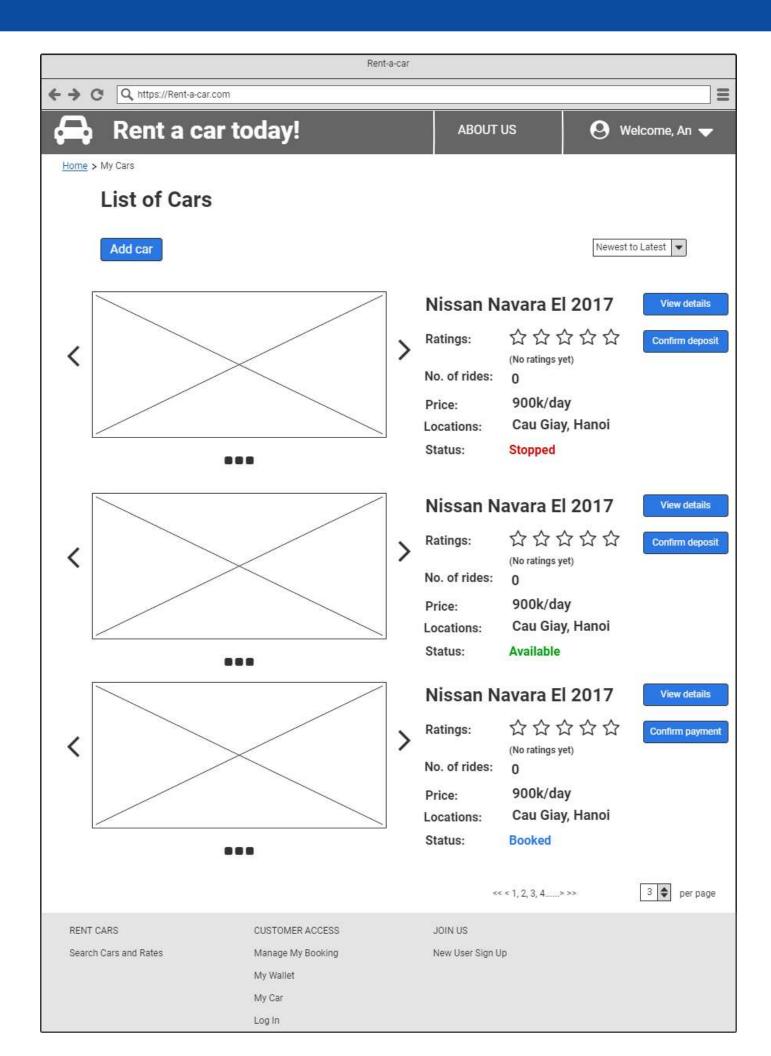
ID and Name	View My cars		
Description	This use case allows users to view the list of cars that they have added		
Actor	Car owners		
Trigger	Users click to My Cars link in the Menu		
Pre-condition	Users logged in to the system as Car owners		
	User has successfully submitted the car.		
Post-condition	Users can view the list of cars that they have added		

# 3.19.2 Flow of Events

# 3.19.2.1 Basic Flow

Step	Description
1.	Car owners click on My Car link in the Menu
2.	System display list of cars of the users in Thumbnail view
3.	The flow ends

3.19.3 Mock-up Screen



# 3.19.4 Screen Description

# 3.19.4.1 My cars page

REF	Field Name	Control Type	Data Type	Description
1.	Page title	Title	Text	Display: "List of Cars"
2.	Add Car	Button	N/A	Click to go to the flow to Add a car. Trigger UC18
3.	Car tile	Image and Text	Text	<ul> <li>For each car, display:</li> <li>Car image, allow to go back or forward to see more image</li> <li>Car Name, including Brand name and model</li> <li>Ratings</li> <li>Number of Rides: Number of completed bookings for the car</li> <li>Location: Display the District and province</li> <li>Status: Refer to BRL-18-01</li> </ul>
4.	Edit	Button	N/A	Click to edit car information, trigger UC20
5.	Sorting	Dropdown	N/A	Refer to Common Component
6.	Pagination	Buttons	N/A	Refer to Common Component

# 3.20 UC20: Edit Car Information

# 3.20.1 Overview.

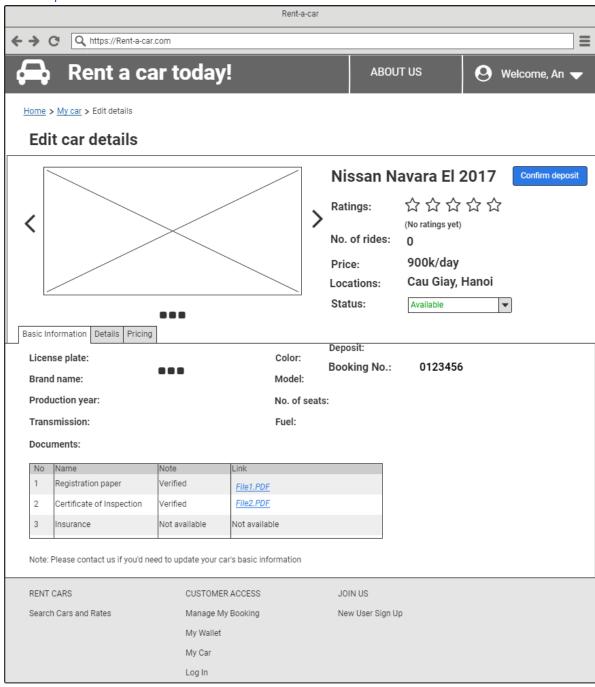
ID and Name	Edit Car Information	
Description	This use case allows users to edit the information of a car	
Actor	Car owners	
Trigger	Users click edit button to edit car information	
Pre-condition	Users logged in to the system as Cars Owner	
Post-condition	Users can save the changes for the car	

# 3.20.2 Flow of Events

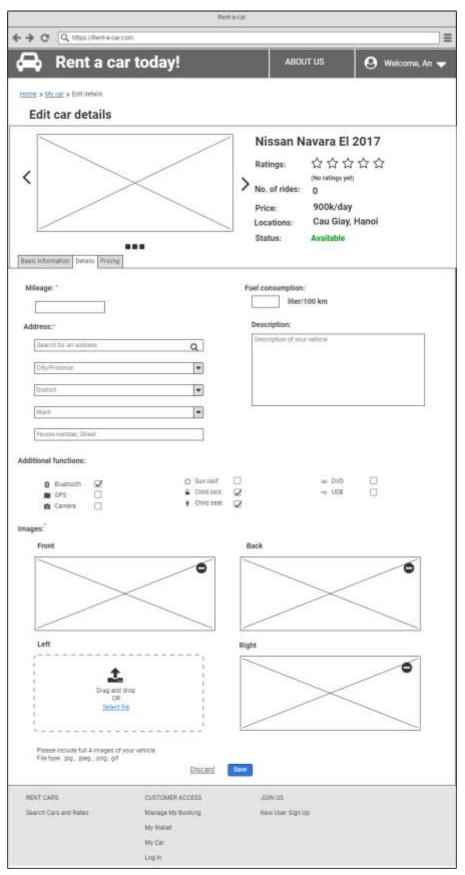
## 3.20.2.1 Basic Flow

Step	Description
1.	Car owners click on edit button in List of cars
2.	System display car details in edit mode for Car owner to edit
3.	Users change car information and click Save
4.	The system validates changes and store the new information
5.	The flow ends

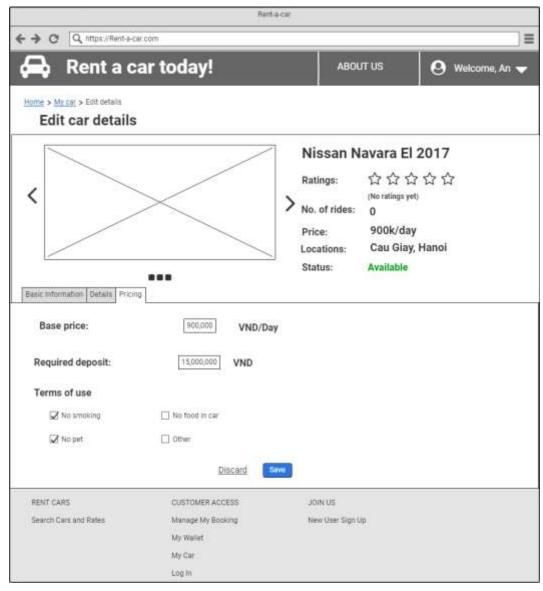
#### 3.20.3 Mock-up Screen



Screen 20.1. Edit car page – Basic information tab



Screen 20.1. Edit car page – Details tab



Screen 20.1. Edit car page - Pricing tab

## 3.20.4 Screen Description

#### 3.20.4.1 Edit car page / Overview

REF	Field Name	Control Type	Data Type	Description
1.	Page title	Title	Text	Display: "Edit car details"
2.	Car images	Image sliders	Image	Display the images of the cars.
				Same rule as in the search result page
3.	Car Name	Label	Text	Display Car Name: Same rule as search result
4.	Ratings	Icons	Text	Display Car Ratings. Same rule as search result
5.	Number of	Label	Text	Display Number of Rides
	Rides			Same rule as search result
6.	Location	Label	Text	Display Car Location. Same rule as search result
7.	Status	Dropdown	N/A	Display Car's Status. Allow to edit
				2 options:
				Available: select to put a car back for rent

Stopped: Select to stop renting the car. Refer to
UC18

# 3.20.4.2 Edit car page / Basic information tab

REF	Field Name	Control Type	Data Type	Description
1.	Group of fields	Text	N/A	Do not allow to edit.
	for car's basic			Include the following information:
	information			License plate
				Color
				Brand name
				Model
				Production year
				No. of seats
				Transmission
				• Fuel
				Information entered by car owner. Refer UC18
				Display note: "Note: Please contact us if you'd need to
				update your car's basic information"
2.	Documents	Datagrid	N/A	Display the file name for the documents, allow to click and download.
				Information entered by car owner. Refer UC18

# 3.20.4.3 Edit car page / Details tab

REF	Field Name	Control Type	Data Type	Description
1.	Group of text fields for car's details	Text	N/A	Allow to edit. Include the following information:  • Mileage  • Fuel commission  • Address  • Description Information entered by car owner. Refer UC18
2.	Group of checkboxes for additional functions	Checkboxes	N/A	Allow to edit. Include the following checkboxes  Bluetooth GPS Camera Sun roof Child lock Child seat DVD USB Information entered by car owner. Refer UC18
3.	Car Images	Image	N/A	Display the images upload by user. Allow to edit.

# 3.20.4.4 Edit car page / Terms of use tab

RE	Field Name	Control Type	Data Type	Description
1.	Group of text fields	Text	N/A	Allow to edit.
	for car's price			Include the following information:
	information			Base price per day

				Required deposit  Information entered by car owner. Refer UC18
2.	Group of checkboxes for Terms of use	Checkboxes	N/A	Allow to edit. Include the following checkboxes  No smoking No pet No food in cars Other Information entered by car owner. Refer UC18

## 3.20.5 Business Rules

Business Rule ID	Business Rule Description	
BRL-20-01	Car owner is not allowed to edit car's basic information after they have submitted their car.	
BRL-20-02	Car owner is not allowed to edit car's documents after they have submitted their car. They ca	
	however, view and download the documents	

# 3.21 UC21: Stop Renting a Car

# 3.21.1 Overview.

ID and Name	Stop renting a car			
Description	This use case allows users to stop renting a car			
Actor	Car owners			
Trigger	Users update the car's status to Stopped			
Pre-condition	Users logged in to the system as Cars Owner			
Post-condition	Users can change the car's status to Stopped			

## 3.21.2 Flow of Events

#### 3.21.2.1 Basic Flow

Step	Description
1.	Car owner change car's status from Available to Stopped
2.	System display confirmation message "Are you sure you want to stop renting this car?"
3.	User can select Yes to confirm
4.	The system updates the car's status to Stopped
5.	The flow ends

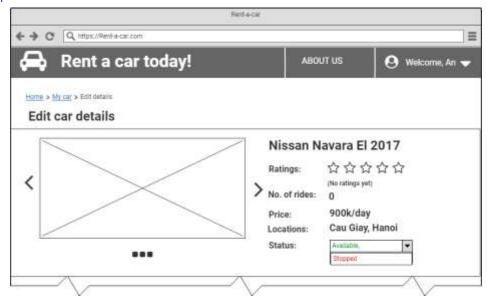
# 3.21.2.2 Exception flow 1 – Cannot stop renting a car that has been booked

Step	Description
1	At step 1, system will check if the car has been booked
2	If the car has been booked, display error message ME013: "Your car has been booked. Please contact our administrator if your car is no longer available for rent."

# 3.21.2.3 Exception flow 2 – User cancels the flow

St	ер	Description
	1	At step 3, user selects No
	2	System discards the flow and no changes are made

## 3.21.3 Mock-up Screen



Screen 21. Stop Renting car

## 3.21.4 Screen Description

## 3.21.4.1 Edit car page / Status dropdown

REF	Field Name	Control Type	Data Type	Description
1	Status	Dropdown	N/A	For available car, display the "Stopped" option. Allow to edit

#### 3.21.5 Business Rules

Business Rule ID	Business Rule Description
BRL-21-01	Only allow user to mark a car as Stopped if the car's status is Available
	If the car's status is booked -> Do not allow to stop renting the car.

# 3.22 UC22: Confirm deposit

#### 3.22.1 Overview.

ID and Name	Confirm deposit
Description	This use case allow car owner to confirm the deposit and update the booking status
Actor	Car owner
Trigger	Car owner clicks on Confirm Deposit button in Car details page
Pre-condition	Users logged in to the system as Customer
Post-condition	The booking status is updated to Confirmed

#### 3.22.2 Flow of Events

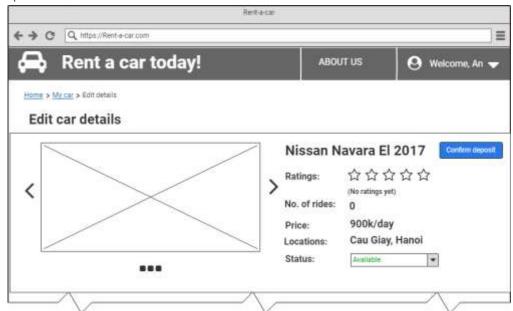
#### 3.22.2.1 Basic Flow

Step	Description
1.	Car owner clicks on Confirm Deposit button in Car details page
2.	System display confirmation message "Please confirm that you have receive the deposit this booking. This will allow the customer to pick-up the car at the agreed date and time."
3.	User can select Yes to confirm
4.	The system updates the booking status to Confirmed
5.	The flow ends

#### 3.22.2.2 Exception flow 1 – User cancels the flow

Ste	ер	Description	
	1	At step 3, user selects No	
	2	System discards the flow and no changes are made	

#### 3.22.3 Mock-up Screen



Screen 22.1. Confirm Deposit - Button



Screen 22.2. Confirm Deposit - Dialog

#### 3.22.4 Screen Description

#### 3.22.4.1 Confirm Deposit button

REF	Field Name	Control Type	Data Type	Description
1	Confirm Deposit	Button	N/A	Click to confirm that car owner has received the deposit for the car. Change the booking status to Confirmed. Only available for certain booking statuses. Refer to BRL-22-01

#### 3.22.5 Business Rules

Business Rule ID	Business Rule Description
BRL-22-01	

# 3.23 UC23: Confirm payment

#### 3.23.1 Overview.

ID and Name	Confirm Payment
-------------	-----------------

Description	This use case allows car owners to confirm the payment after customer returns a car
Actor	Car Owner
Trigger	Car Owner click on Confirm Payment button in the Car details page
Pre-condition	Users logged in to the system as Car Owner
Post-condition	The booking status is updated to Completed

#### 3.23.2 Flow of Events

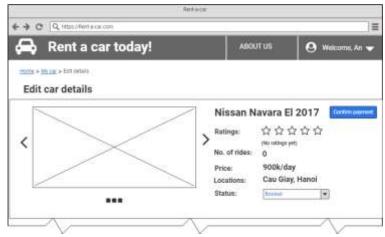
#### 3.23.2.1 Basic Flow

Step	Description
1.	Car owner clicks on Confirm Payment button in Car details page
2.	System display confirmation message "Please confirm that you have receive the payment for this booking."
3.	User can select Yes to confirm
4.	The system updates the booking status to Completed  The system updates the car's status to Available
5.	The flow ends

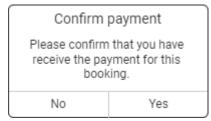
# 3.23.2.2 Exception flow 2 – User cancels the flow

Step	Description		
1	At step 3, user selects No		
2	System discards the flow and no changes are made		

#### 3.23.3 Mock-up Screen



Screen 23.1. Confirm Payment - Button



Screen 23.1. Confirm Payment - Button

## 3.23.4 Screen Description

#### 3.23.4.1 Confirm Payment button

REF	Field Name	Control Type	Data Type	Description
-----	------------	--------------	-----------	-------------

1	Confirm	Button	N/A	Click to confirm that car owner has received the payment for
	Payment			the car. Change the booking status to Completed. Only
				available for certain booking statuses. Refer to BRL-23-01

#### 3.23.5 Business Rules

Business Rule ID	Business Rule Description
BRL-23-01	Only allows customer to confirm payment the current booking of the car is of status Pending
	Payment. For other status, hide the button completely.

## 3.24 UC24: View Wallet

#### 3.24.1 Overview.

ID and Name	View wallet		
Description	This use case allows customers and car owners to view their wallet's balance		
Actor	Customer, car owners		
Trigger	Customers and car owners click on the My wallet menu link on header		
Pre-condition	Customers and car owners has logged in to the system		
Post-condition	Customer, car owners can view their wallet page		

#### 3.24.2 Flow of Events

#### 3.24.2.1 Basic Flow

Step	Description			
1.	Customer, car owners logs into the system and click on the arrow button on header			
2.	The system display the menu			
3.	Users select My wallet			
4.	The system display My wallet page			
5.	The flow ends			

# 3.24.2.2 Alternative flow 1 – Withdraw money

Step	Description		
1.	At step 4, user clicks on Withdraw button		
2.	System display pop-up for user to specify the money to be withdrawn.		
3.	User enter the amount and click Withdraw		
4.	System deduct the amount from their wallet and transfer other system		

#### 3.24.2.3 Alternative flow 2 – Top-up money

Step	Description		
1.	At step 4, user clicks on Top-up		
2.	System display pop-up for user to select the money to top-up		
3.	User selects the amount and click Top-up		
4.	System add the amount to user's wallet from other system		

## 3.24.2.4 Alternative flow 3 – Query transaction

Step	Description		
1.	At step 4, user enters From date and To date and clicks Search		
2.	System queries the data in the selected date range and returns data in the table		

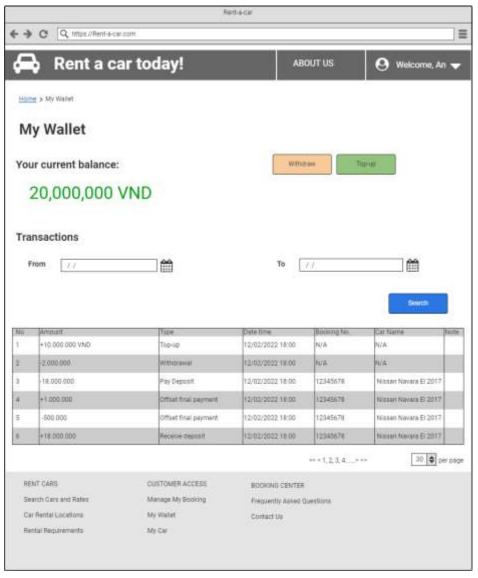
# 3.24.2.5 Exception flow 1 – No transactions to display

Step	Description
1.	At step 4, when there's no transactions to display or no transactions in the date range

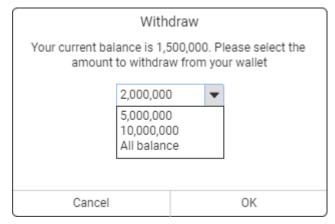
- 2. System display: "No transactions available"
- 3.24.2.6 Exception flow 2 User enters select To date earlier than From date

Step	Description
1.	At step 4, users enters To date earlier than From date and click Search
2.	System display error message ME015: "The end date must be later than the start date in order to search for transactions. Please try again."

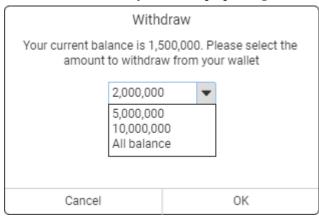
#### 3.24.3 Mock-up Screen



Screen 21. My wallet



Screen 21.1. My wallet - Top-up dialog



Screen 21.2. My wallet - Withdraw diaglog

### 3.24.4 Screen Description

# 3.24.4.1 My Wallet / Your current balance

REF	Field Name	Control Type	Data Type	Description
1.	Page title	Label	Text	Display "My Wallet"
2.	Section title	Label	Text	Display "Your current balance"
3.	Balance	Label	Text	Display the current balance
4.	Withdraw	Button	N/A	Allow to click – Display an instruction dialog: "Please contact your operator to withdraw money from your wallet."
5.	Top-up	Button	N/A	Allow to click – Display an instruction dialog:  "Please contact your operator to top-up money to your wallet."

#### 3.24.4.2 My Wallet / Transaction

REF	Field Name	Control Type	Data Type	Description
1.	Section title	Label	Text	Display "Transaction"
2.	From	Text field and date picker	Date	Allow to enter Start date to query the data
3.	То	Text field and date picker	Date	Allow to enter End date to query the data

4.	Search	Button	N/A	Allow to query the transaction from the selected date range
5.	Transaction table	Datagrid	Text	<ul> <li>Include 5 columns:</li> <li>No.</li> <li>Amount: Display the transaction amount.</li> <li>Type: Refer to BRL-24-03</li> <li>Date time: Display time of creation</li> <li>Booking No.: Display the booking number if available.</li> <li>Car name: Display the name of car if available.</li> </ul>
6.	Pagination	Buttons	N/A	Refer to Common Component

# 3.24.4.3 My Wallet / Top-up diaglog

REF	Field Name	Control Type	Data Type	Description	
7.	Dialog title	Label	Text	Display "Top-up"	
8.	Instruction	Label	Text	"Please select the amount to top-up to your wallet"	
9.	Amount	Dropdown	Date	Allow to select top-up amount.	
				List of values: Refer to BRL-24-01	
10.	OK	Button	N/A	Click to confirm top-up	
11.	Cancel	Button	N/A	- Click to cancel the flow and close the pop-up	

# 3.24.4.4 My Wallet / Withdraw diaglog

REF	Field Name	Control Type	Data Type	Description
12.	Dialog title	Label	Text	Display "Top-up"
13.	Instruction	Label	Text	"Your current balance is <current balance="">. Please select the amount to withdraw from your wallet"</current>
14.	Amount	Dropdown	Date	Allow to select top-up amount.
				List of values: Refer to BRL-24-01
15.	ОК	Button	N/A	Click to confirm top-up
16.	Cancel	Button	N/A	- Click to cancel the flow and close the pop-up

#### 3.24.5 Business Rules

5.2 1.0 2031 1033 Kolo3				
Business Rule ID	Business Rule Description			
BRL-24-01	Users can top-up money by selecting an amount.			
	List of values:			
	- 2,000,000 VND			
	- 5,000,000 VND			
	- 10,000,000 VND			
	The Car rentals system will add the selected amount to user's wallet			
	The integration with other system to get the money will be out of scope for this project			
BRL-24-02 Users can specify the money to be withdrawn from their wallet off-line				
	List of values:			
	- 2,000,000			
	- 5,000,000			
	- 10,000,000			
	- All balance			
The Car rentals system will deduct the specified amount from user's wallet				
	The integration with other system to get the money will be out of scope for this project			

BRL-24-03	Their 6 types of transaction:			
	<ul> <li>Withdraw is when the user withdraw money from wallet. For both customers and car owners</li> <li>Top-up is when the user top-up money to wallet. For both customers and car owners</li> <li>Pay deposit is when users book a car and pay the deposit via My wallet. System deducts money from user's wallet. For customers</li> </ul>			
	- Receive deposit is when users receive the deposit payment when customers book their car. For car owners			
	<ul> <li>Refund deposit is when customer cancels a booking and the deposit is refunded to your wallet</li> <li>Offset final payment is when user's return the car and the system will check.</li> </ul>			
	<ul> <li>If the deposit amount is more than the total amount, system will return money to user's wallet</li> </ul>			
	<ul> <li>If the deposit amount is less than the total amount, system will deduct money from user's wallet</li> </ul>			
	<ul> <li>This is for Customers</li> </ul>			
BRL-24-04	When query the transaction, the To date must be later than the From date.			
BRL-24-05	The date range to query transactions will be defaulted to be the most recent 1 month			
	- To date is defaulted to current date			
	- From date is 1 month ago from current date			
BRL-24-06	Rule to display transaction amount:			
	- If it's an inbound transaction, display as positive (+).			
	- If it's an outbound transaction, display as negative (-)			
BRL-24-07	Every time there's a change to the user's wallet, system will send a notification email to user.			
	Notification email content: Email template EM05			

# 3.25 UC25: View Feedback Report

## 3.25.1 Overview.

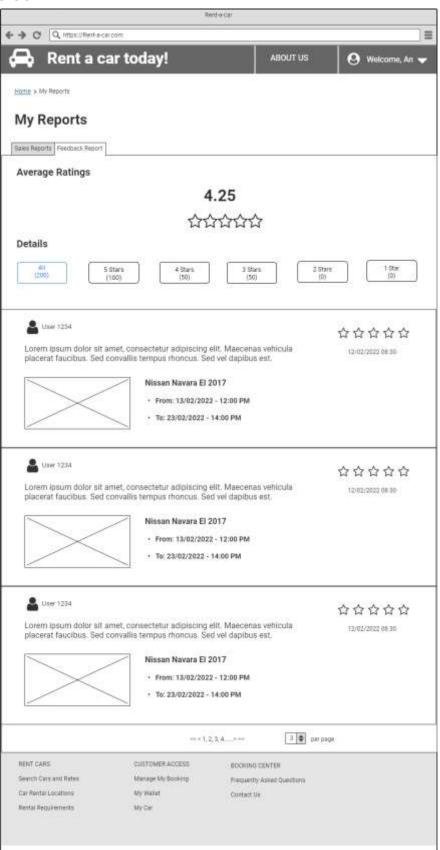
ID and Name	View Feedback report	
Description This use case allows car owners to view their Feedback reports		
Actor	Car owners	
Trigger	Customers and car owners click on My reports link on menu	
Pre-condition	User has logged in	
Post-condition	Customer, car owners can view Feedback report	

# 3.25.2 Flow of Events

## 3.25.2.1 Basic Flow

Step	Description
1.	Car owners click on My Reports link on menu
2.	The system displays My Reports team, default to Feedback Report
3.	User view Feedback report
4.	The flow ends

#### 3.25.3 Mock-up Screen



Screen 23. Feedback Report

# 3.25.4 Screen Description

# 3.25.4.1 My Feedback page

REF	Field Name	Control Type	Data Type	Description
1.	Page title	Text	N/A	Display "My Reports"
2.	Section title	Text	N/A	Display section title "Average Ratings"
3.	Average	Star Icon	Image	Display the average ratings.
	Ratings			Rule to calculate: Refer to BR.
4.	Section title	Text	N/A	Display section title "Details"
5.	Feedback Filters	Button	Text	Display the total income in the selected range.
6.	List of feedback	Label	Text	For each feedback, display:  User icon  User name  Feedback content  Ratings  Date and time  Booking information, including car image (front image, car name, booking date range – From- To)
7.	Pagination	Buttons	N/A	Refer to Common Component

# 3.25.5 Business Rules

Business Rule ID	Business Rule Description		
BRL-25-01	Rule to calculate feedback average		
	Total ratings/ Number of ratings.		
	Round up to 2 digits after decimal point.		
BRL-25-02	Rule to filter list of feedback:		
	<ol> <li>Display 5 buttons: All, 5 stars, 4 stars, 3 stars, 2 stars, 1 star</li> <li>Display the number of feedback with the corresponding ratings underneath</li> <li>Allow to select 1 button at a time to filter, default to All</li> <li>When click, filter the list to display the feedback of the selected ratings.</li> <li>The list will be sorted from newest to oldest</li> </ol>		

#### Non-functional requirements

#### 4.1 Performance

No.	Type of Transaction	Response Time
1	Login, Logout - From submission of request to the completion of the response.	Will not exceed 2 seconds for 95% of the time.
2	Query transaction to get data	Will not exceed 2 seconds for 95% of the time.
3	Update transaction to update data	Will not exceed 2 seconds for 95% of the time.
4	Report generation	Will not exceed 2 seconds for 95% of the time.

#### 4.2 System Availability

The system service available hours are as follows

- 1. Production: 24 hours (including Sundays and public holidays);
- 2. Development, SIT, User Acceptance Testing (UAT) and training: Monday Friday (0800-1800 hours, after 1800 hours upon request);

Vendor will work out a process to inform immediately of any downtime and take the necessary action to resume the services immediately. Vendor will send weekly and monthly report on the system's availability and performance

### 4.3 Audit Logging and monitoring

Any events that hold a security risk will be recorded in system logs and audit trails. Following events will be recorded:

- 1. All successful and unsuccessful login attempts;
- 2. All successful and failed access to personally identifiable data;
- 3. All successful and failed access to sensitive/restricted data;
- 4. Changes to all records;
- 5. Changes to all system configurations:
- 6. Security events generated by operating systems and security devices (such as firewalls, anti-malware, etc.).

## 4.4 Security

- 1. Vendor will be responsible to protect all data and make sure that it is not used for other purposes
- 2. All members from the Vendor that involve in the system will need to sign a confidentiality agreement to prevent any unauthorized disclosures of restricted information
- 3. Vendor will need to ensure that during data migration, no data is copied to any media, including hard drives, flash drives, or other electronic device, unless expressly approved in advance.
- 4. Vendor will make sure that restricted data sent over the network is in an encrypted format. When restricted data are backed up to backup media, it will also be in an encrypted format to protect their confidentiality

# 5. APPENDICES

# 5.1 Message List

UC	Message ID
General	Message- M003: "Required field"
UC01: Log in	ME001: "Either email address or password is incorrect. Please try again"
UC01: Log in	ME002: "Please enter a valid email address"
UC03 Forgot password	ME006 "This link has expired. Please go back to Homepage and try again."
UC03 Forgot password	ME005: "Password and Confirm password don't match. Please try again."
UC04: Register an account	ME004: "Email already existed. Please try another email."
UC08: Search a car	ME007: "Please enter location"
UC08: Search a car	ME008: "Please enter pick up date and time"
UC08: Search a car	ME009: "Please enter drop-off date and time"
UC08: Search a car	ME010: "Drop-off date time must be later and Pick-up date time, please try again."
UC08: Search a car	ME011: "No cars match your credentials, please try again."
UC15: Return a car	ME012 "Your wallet doesn't have enough balance. Please top-up and try again"
UC21: Stop Renting a Car	ME013: "Your car has been booked. Please contact our administrator if your car is no longer available for rent."
UC03 Forgot password	ME014: "Password must contain at least one number, one numeral, and seven
UC04: Register an account	characters"

# 5.2 Email List

UC	Email code	Email Content	
UC03 Forgot password	EM01	Subject: Rent-a-car Password Reset	
		Body: We have just received a password reset request for <user's email<="" td=""></user's>	
		address>.	
		Please click <u>here</u> to reset your password.	
		For your security, the link will expire in 24 hours or immediately after you reset your password.	
UC10 Rent a car	EM02	Subject: Your car has been booked	
		Body: Congratulations! Your car <name car="" of=""> has been booked at DD/MM/YYYY HH: MM. Please go to your <u>wallet</u> to check if the deposit</name>	
		has been paid and go to your car's <u>details page</u> to confirm the deposit.	
		Thank you!	
UC13 Cancel booking	EM03	Subject: A booking with your car has been cancelled	
		Body: Please be informed that a booking with your car <name car="" of=""> has been cancelled at DD/MM/YYYY HH: MM. The deposit will be</name>	
		returned to the customer's wallet.	
UC15 Return a car	EM04	Subject: Your car has been returned	
		Body: Please be informed that your car <name car="" of=""> has been</name>	
		returned at DD/MM/YYYY HH: MM. Please go to your wallet to check if	
		the remaining payment has been paid and go to your car's <u>details page</u> to confirm the payment. Thank you!	
UC24 View wallet	EM05	Subject: There's an update to your wallet.	

	Body: Please be informed that your wallet's balance has been updated at at DD/MM/YYYY HH: MM. Please go to your <u>wallet</u> and view the
	transactions for more details. Thank you!

### 5.3 Common Component

#### 5.3.1 Header

Header will display for all pages, based on the user; header item for each user will be as below;

No.	Header for Guest	Header for Customer	Header for Car Owner
1.	<ul><li>Logo and slogan</li><li>Logo is clickable, direct to Homepage</li></ul>	Same as header for Guest	Same as header for Guest
2.	About Us link  Click to automatically scroll down to section "Why Us?"	Same as header for Guest	Your benefit link  Click to automatically scroll down to: "Have a car for rent? Don't miss out of your benefit?"
3.	Sign Up/ Login link  Click to open Login/Sign Up screen (UC01 and UC04)	Display: "Welcome, <name of="" user="">"</name>	Same as header for Customer
4.	N/A	Display an arrow button, click to open menu links  My profile: Click to link to My profile page (UC05)  My bookings: Click to link to My Bookings page, (UC11)  My wallet: Click to link to My Bookings page(UC24)  Logout: Click to log user out of the system (UC02)	Display an arrow button, click to open menu links  My profile: Same as for Customer  My Cars: Click to link to My Cars page (UC19)  My wallet: Same as for Customer  Logout: Same as for Customer

#### 5.3.2 Footer

Footer for all pages will have 3 columns; each column has the following links:

#### RENT CARS:

- Search Cars and Rates
  - Only display for Guest and Customer
  - If user has logged in as customer, link to Homepage, trigger UC07
  - If user has not logged in, link to Login page, trigger UC01

#### CUSTOMER ACCESS

- Manage My Booking
  - Only display for Guest and Customer
  - If user has logged in as customer, link to My booking list, trigger UC11
  - If user has not logged in, link to Login page, trigger UC01
- My Wallet
  - If user has logged in, link to My Wallet, trigger UC24
  - If user has not logged in, link to Login page, trigger UC01
- My Car
  - Only display for Guest and Car owner
  - If user has logged in, link to My Cars, trigger UC19
  - If user has not logged in, link to Login page, trigger UC01
- Log In

- Only display if user has not logged in, trigger UC01
- JOIN US
  - New User Sign Up
    - Only display if user has not logged in, trigger UC04

#### 5.3.3 Pagination

Common rule for pagination includes

- Page number to switch between pages
- Option to select the number of items per page
- Default to 10 items
- Other options: 15, 20, 25, 30.

#### 5.3.4 Sorting

The common behavior for sorting function is;

- · Default to the newest to latest order
- Other options:
  - Latest to newest
  - o Price highest to lowest
  - o Price lowest to highest

#### 5.3.5 Switch view button

Common behavior for Switch view button:

- Default to Thumbnail view
- Click to switch between Thumbnail and List view

#### 5.4 List of values

No.	Name	Code	File
1.	List of values for addresses	LI01	x
			Address value
			list.xls
2.	List of Car brand and model	LI02	x
			Car Rentals_Value
			list_Brand and mode
3.	List of Car color	LI03	x
			Car Rentals_Value list_Color.xlsx