

SRS

Software Requierment Specicfications

Request NOC Caravan Camping ABC Web Portal

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Document Release History

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1	Draft	05/03/2022	Mohamed Ali		Initial publication
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Authors, Reviewers, Stakeholders

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3		ABC Board member		
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7		Business Consultant		
8		Project Manager		
9		Business Analyst		
10		System Analyst		
11		Database Admin		
12		Software Developer		
13		UX Designer		
14		Software Tester		

Abbreviation	Description	Role's Responsibility
*	Authorize	Has ultimate signing authority for any changes to the document
R	Responsible	Responsible for creating this document
A	Accountable	Accountable for the accuracy of this document
S	Supports	Provides supporting services in the production of this document
C	Consulted	Provides input
I	Informed	Must be informed of any changes

ID	Role	*	R	A	S	C	I
1	ABC Board Chairman	✓					✓
2	ABC CEO	✓					✓
3	ABC Board member				✓	✓	
4	ABC Board member				✓	✓	
5	ABC Marketing Manager					✓	
6	ABC Technical Manager					✓	
7	Business Consultant			✓		✓	
8	Project Manager			✓			✓
9	Business Analyst		✓				✓
10	System Analyst		✓				✓
11	Database Admin				✓		✓
12	Software Developer				✓		✓
13	UX Designer				✓		✓
14	Software Tester				✓		✓

Budgeting and Scheduling

#	Work Package	Analysis			Design			Testing		
		Doing	Done	Duration	Doing	Done	Duration	Doing	Done	Duration
1	Registration		✓	1				✓		1
2	User Login		✓	1				✓		1
3	Reset Password		✓	1				✓		1
4	Public Beach		✓	1				✓		1
5	Registry Vehicle		✓	1				✓		1
6	Request NOC		✓	6				✓		1
7	Search Portal		✓	4				✓		1
Total Hours				15	Total Hours			Total Hours		7

Acronyms, Abbreviations and Definitions

Term	Description
NOC	Based on the "No Objection Certificate" and it's an entry Permit To Public Beaches for Caravan Camping.
Interior Ministry	The government agency responsible for official vehicle data

1. Introduction

- **Background**

Despite ABC customer has a business process management suit provided by our company, this suit manages the existing business processes at customer side, customer need to add a new business process, this process can be requested by public users through an online portal, then it has to be reviewed by ABC employees who can accept \ reject request or ask for more information.

- **Purpose**

The purpose of this document is to build a comprehensive view and understanding of the requirements of our team for the new perspective solution: "Web portal NOC Request" illustrates the requirements of the system. It will also explain system constraints, interface, and integration with the Interior Ministry API.

- **Intended Audience**

The document addresses all of the Managerial and Technical Stakeholders" ABC Company" as well as our business consultants, development, and testing team.

- **Product Scope**

"ABC" Web portal NOC Request helps their customers to Request for NOC for Caravan Camping on Public Beaches. Public users can access the platform anytime, anywhere, and receive an excellent service experience.

The application scope will serve all the eligible users for creating a request for caravan camping on public beaches. Faster than at any time.

The main scope is to cover all creating a request for caravan camping on public beaches, follow-up request status of acceptance, rejection, or hold for more information, block violated vehicles and several search features.

The business requirement will be represented in the following deliverables:

- 1- Web portal NOC Request
- 2- Integration with Interior Ministry API

NOTE: This is a live document; it will keep growing during the project's lifetime.

For more details, related to the scope, please refer to reference section (Backlog document).

- **Out of Scope**

Third-party developed APIs:

- ❖ SMS Provider
- ❖ Mail Service Provider

- **Cross Reference**

This section will keep growing to tackle all user stories and requirements for all project iterations documentation which you can find below

- ❖ Traceability Matrix
- ❖ High-Level business requirement
- ❖ Analysis document

2. Overall Description

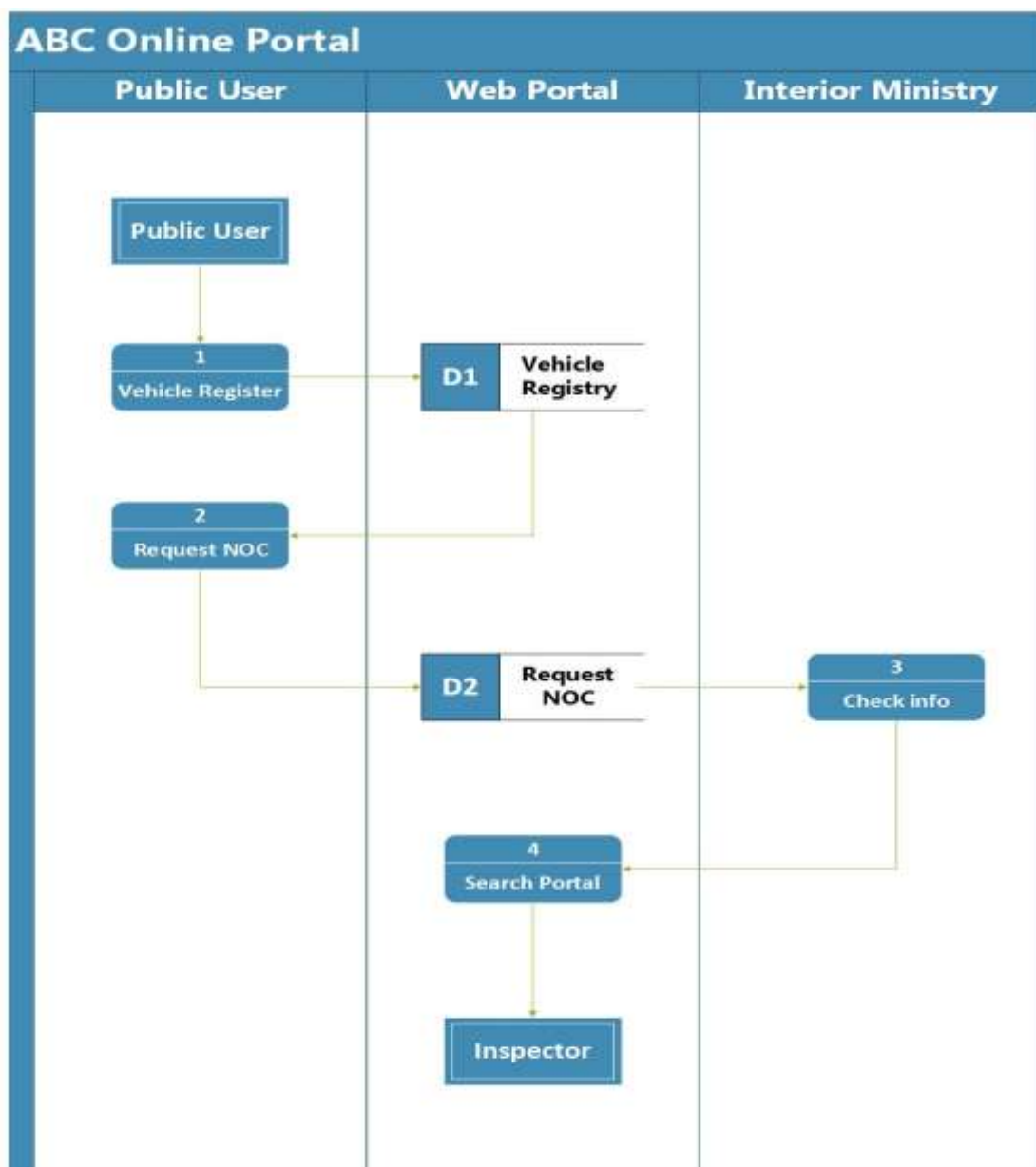
- **Product Perspective**

The new business process is designed to provide outstanding customer satisfaction and an excellent user experience and move our clients to the digital area by integrating the "Web portal NOC Request" with the "Interior Ministry API".

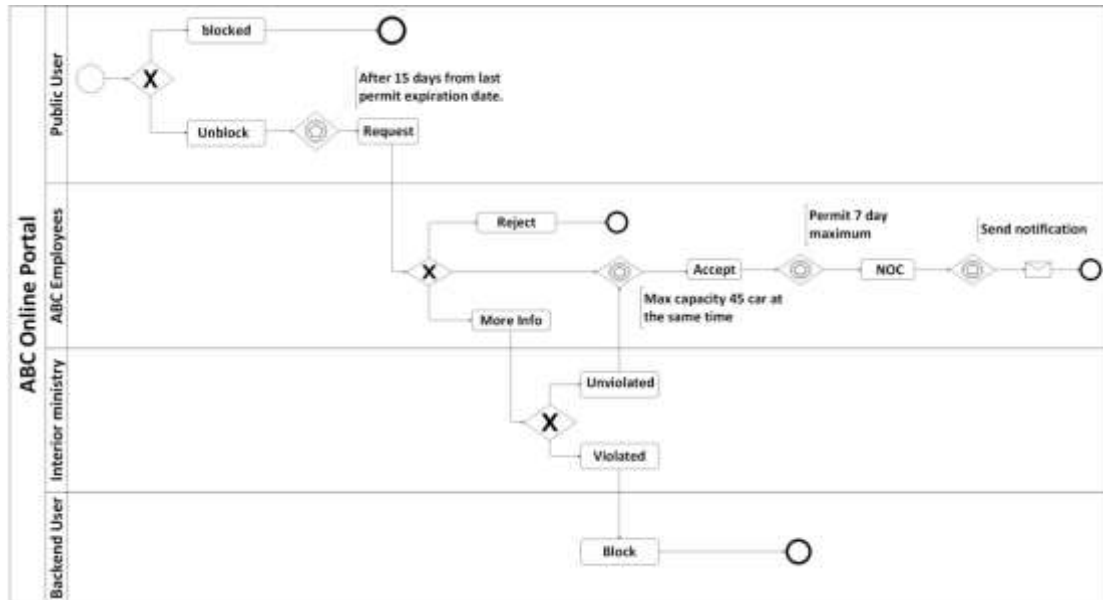
- **Product Functions**

The major functions of Web portal NOC Request are represented in

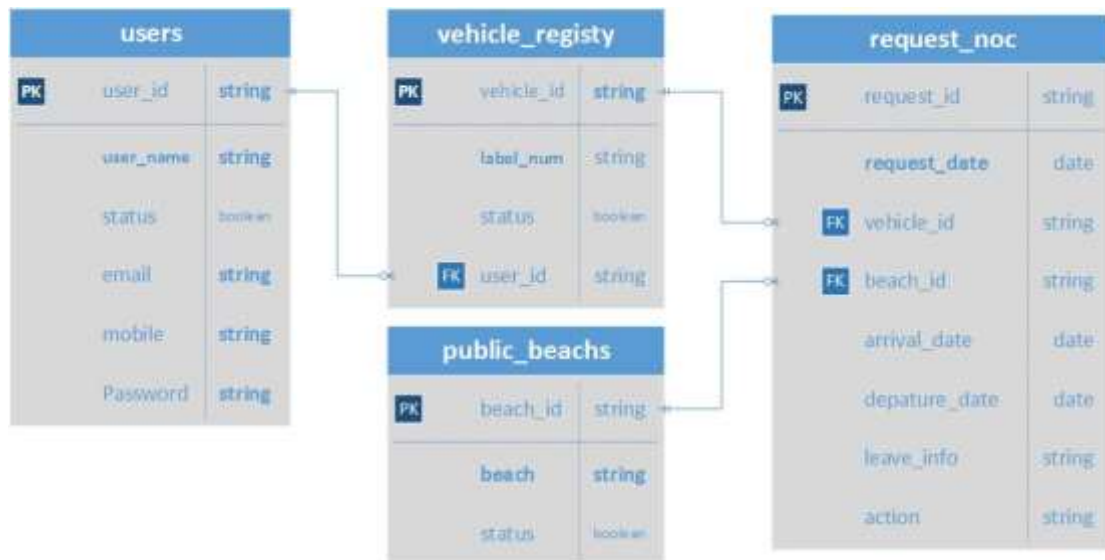
❖ Data Flow Diagram (DFD):



❖ Business Process Modeling Notation (BPMN)



❖ Entity Relationship Diagram (ERD)



- **User Classes and Characteristics**

User	Class	Description
Public User	App User	End-user who has user account to login to the application to create request for caravan camping.
ABC Inspector	App User	End-user how has permission to views entry permits
Backend User	App User	End-user how has permission to block violated vehicles
ABC Employee	App User	End-user how has permission to: <ul style="list-style-type: none">• Accept request• Reject request• Hold request asking more information

- **Design and Implementation Constraints**

All the web portal themes must match the core Application design

- **User Documentations**

- ❖ Software requirement specifications
- ❖ Product Backlog / User story

- **Assumptions and Dependencies**

- ❖ Public user process from login to submit request take 2 minutes.
- ❖ Synchronizing the journey of 1000 users takes maximum 5 minutes from logging in to submit the request.

3. External Interface Requirements

- **User Interfaces**

All the web portal design colors will be consistent with the core app colors which are color X and Y

- **Communications Interfaces**

Application communication method by notifications.

4. System Features

- **FR01: User Registration**

4.1.1. Description:

The public user can click on registration button and create his account by enter his personal information.

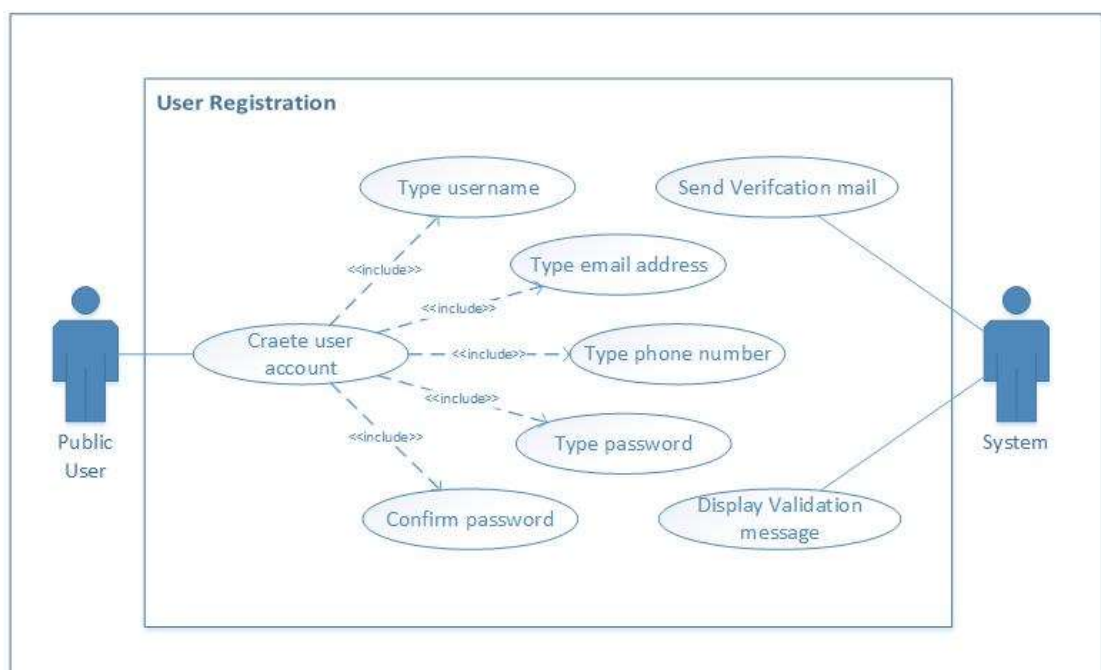
4.1.2. Goals:

The public user can create a user account to add vehicles and create requests.


4.1.3. Rules:

ID	Rule	Type
1	In case of entering an unsexist email and phone number, the system will send a verification email.	business
2	In case of entering an existing email and phone number, the system will display a validation message.	business
3	In case of entering the wrong format of email, phone number, and password the system will display a validation message.	System

4.1.4. Use case:



4.1.5. Wireframe:



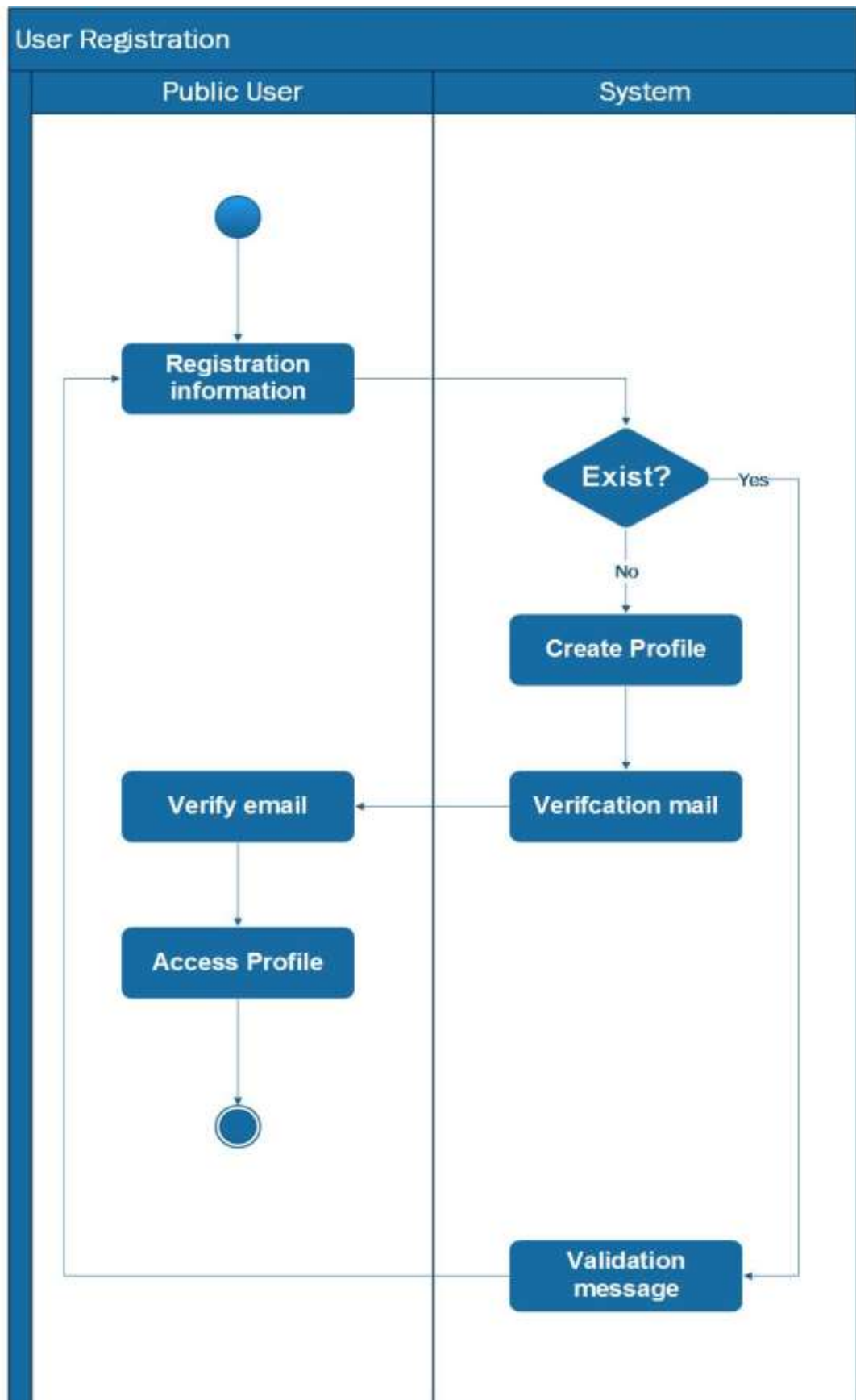
The wireframe shows a registration form with the following fields and a button:

- Username:
- Email Address:
- Mobile Number:
- Password:
- Confirm Password:
- Register:

4.1.6. Field Specifications:

Field Name	Mandatory	Specifications
Username	Y	String Field
Email Address	Y	String Field Divided into three parts <ul style="list-style-type: none">• mmmmm• @nnnnnn• .zzz or .zzz.XXX
Mobile Number	Y	String Field It contains two parts <ul style="list-style-type: none">• +20• 10 digit length
Password	Y	String Field It must consist of 12 symbols at least: <ul style="list-style-type: none">• 2 lowercase letters• 2 Uppercase letters• 4 Special characters• 4 digit
Confirm Password	Y	String Field It must match the password field
Register		Button that saves the registration information just in case that is right.

4.1.7. Activity Diagram:



- **FR02: User Login**

4.2.1. Description:

The public user must enter the username and password to access his account.

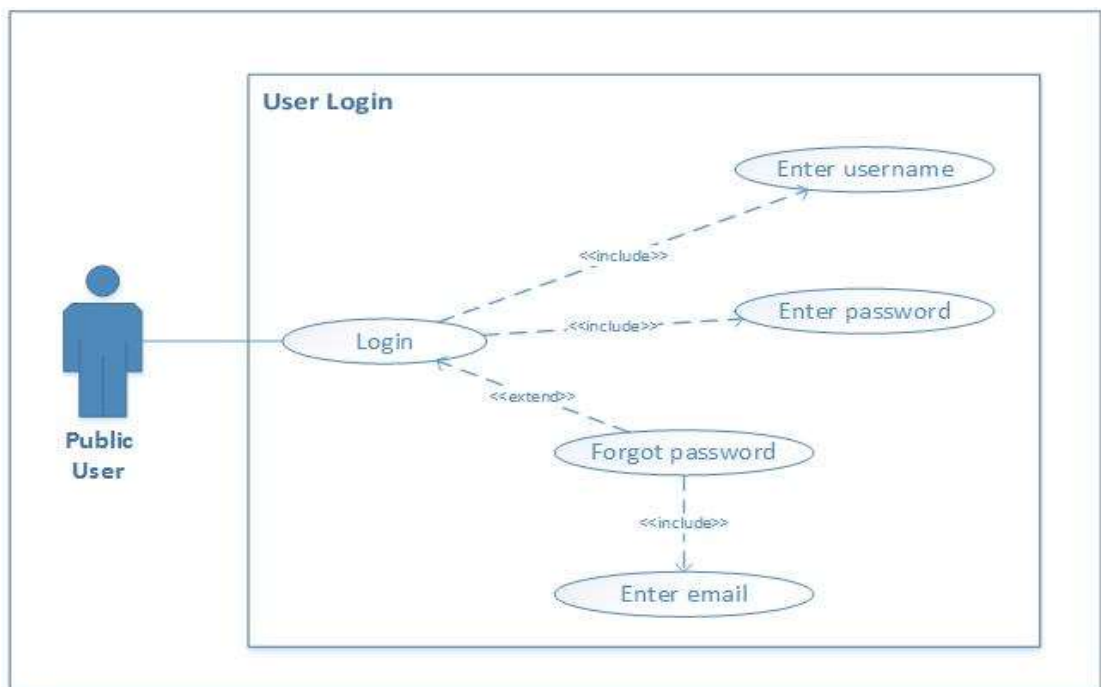
4.2.2. Goals:

User can login into mobile application to use its Functionalities.

4.2.3. Rules:

ID	Rule	Type
1	In case of entering a valid username and password, the user will access his account	System
2	In case of entering an invalid username and password, the following message will appear "Please enter correct username or password"	System
3	In case of leaving username and/or password empty, one of the following messages will display "Please enter username", "Please enter password", "Please enter username and password"	System

4.2.4. Use case:



4.2.5. Wireframe:

Username

Password

Login

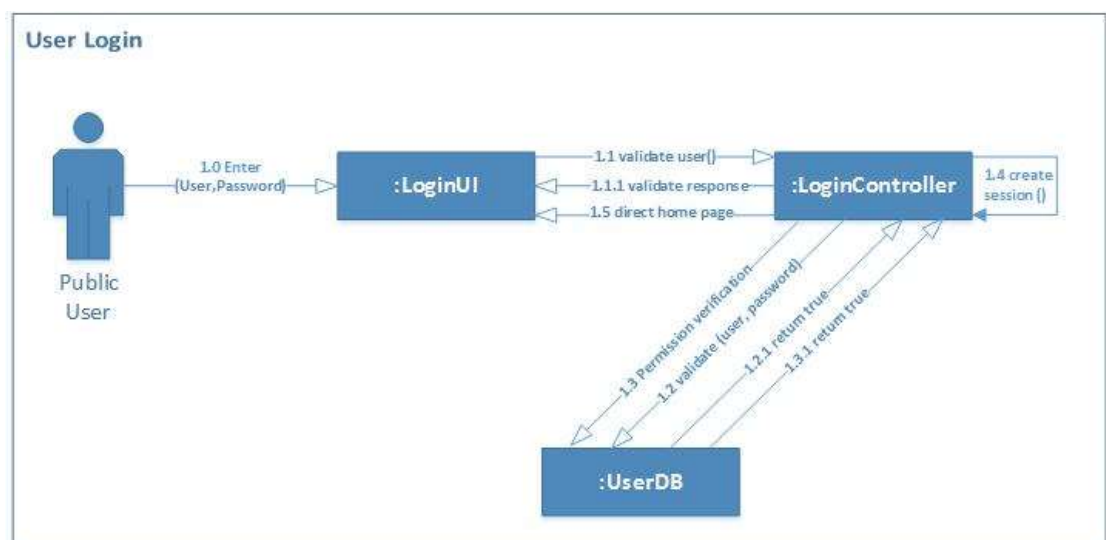
☒ Remember Me

[Forgot Password ?](#)

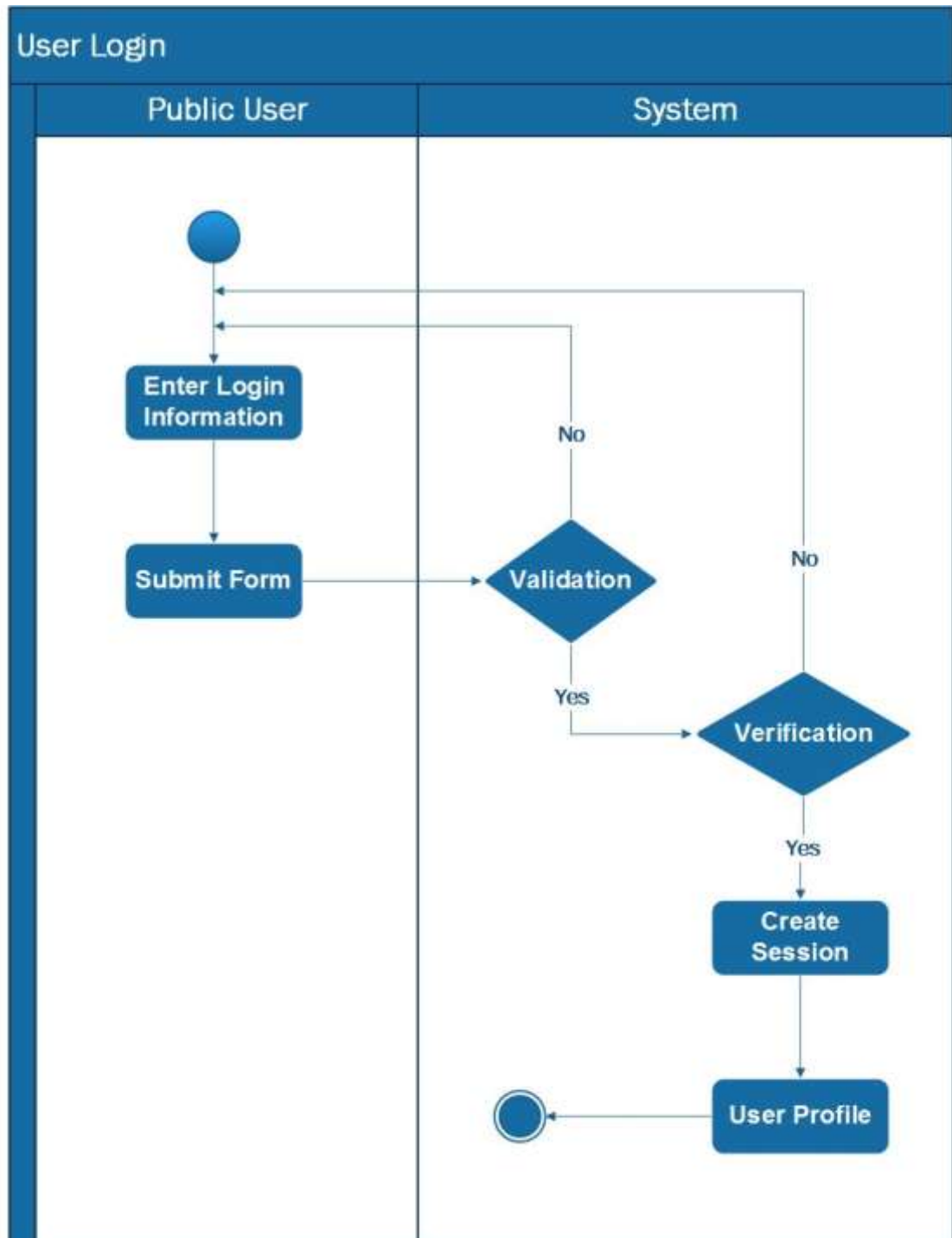
4.2.6. Field Specifications:

Field Name	Mandatory	Specifications
Username	Y	String Field
Password	Y	String Field
Login button		Button that allows user to access his account
Save Login	Check box	To save user account details to login directly in the next time
Forgot password	Link	This link to navigate user to the forgot password screen

4.2.7. Collaboration Diagram:



4.2.8. Activity Diagram:



- **FR03: Reset Password**

4.3.1. Description:

The public user should be able to retrieve his password by e-mail address or phone number in case he forgot it.

Public users can enter their e-mail address or phone number and a One Time Passcode "OTP" from 4 digits will be sent to his phone number or e-mail address.

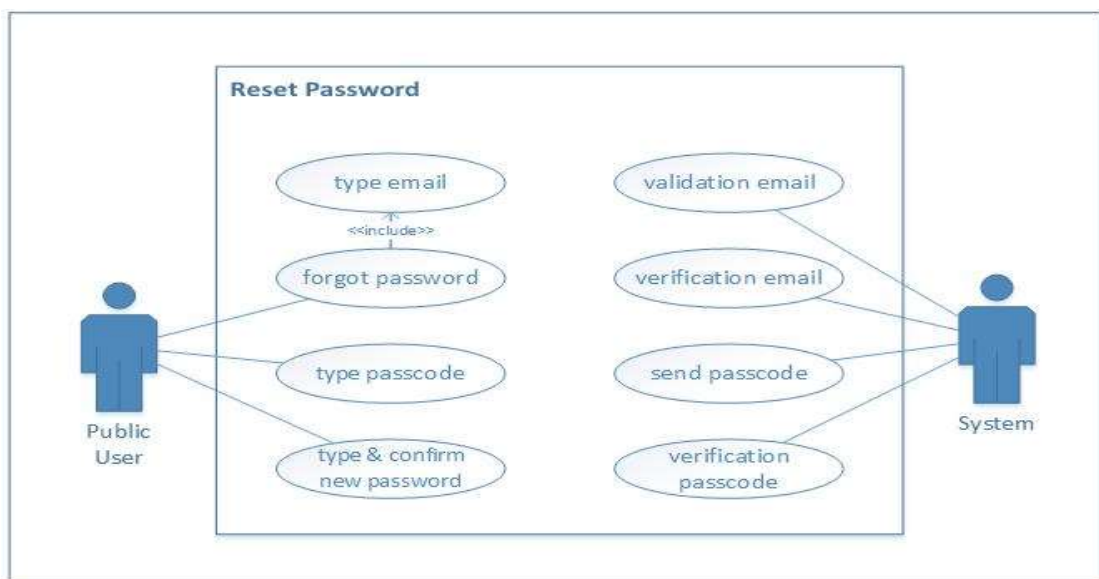
4.3.2. Goal:

To be able to reset a user's password in case of forgetting it.

4.3.3. Rules:

ID	Rule	Type
1	In case the phone number or e-mail address isn't registered, the system will give us a message "Please enter either correct e-mail address or phone number"	System
2	In case the phone number or e-mail address isn't correct, the system will give us a message "Please enter a valid e-mail address or phone number"	System
3	In case the phone number or e-mail address is correct, the system navigates to the confirmation code entry then reset the password	System

4.3.4. Use case:



4.3.5. Wireframe:

E-mail address or Phone number

Reset Password

We have sent you a confirmation code on "000*****00"

Please Enter the code to reset your password

Enter Code

[Send again](#)

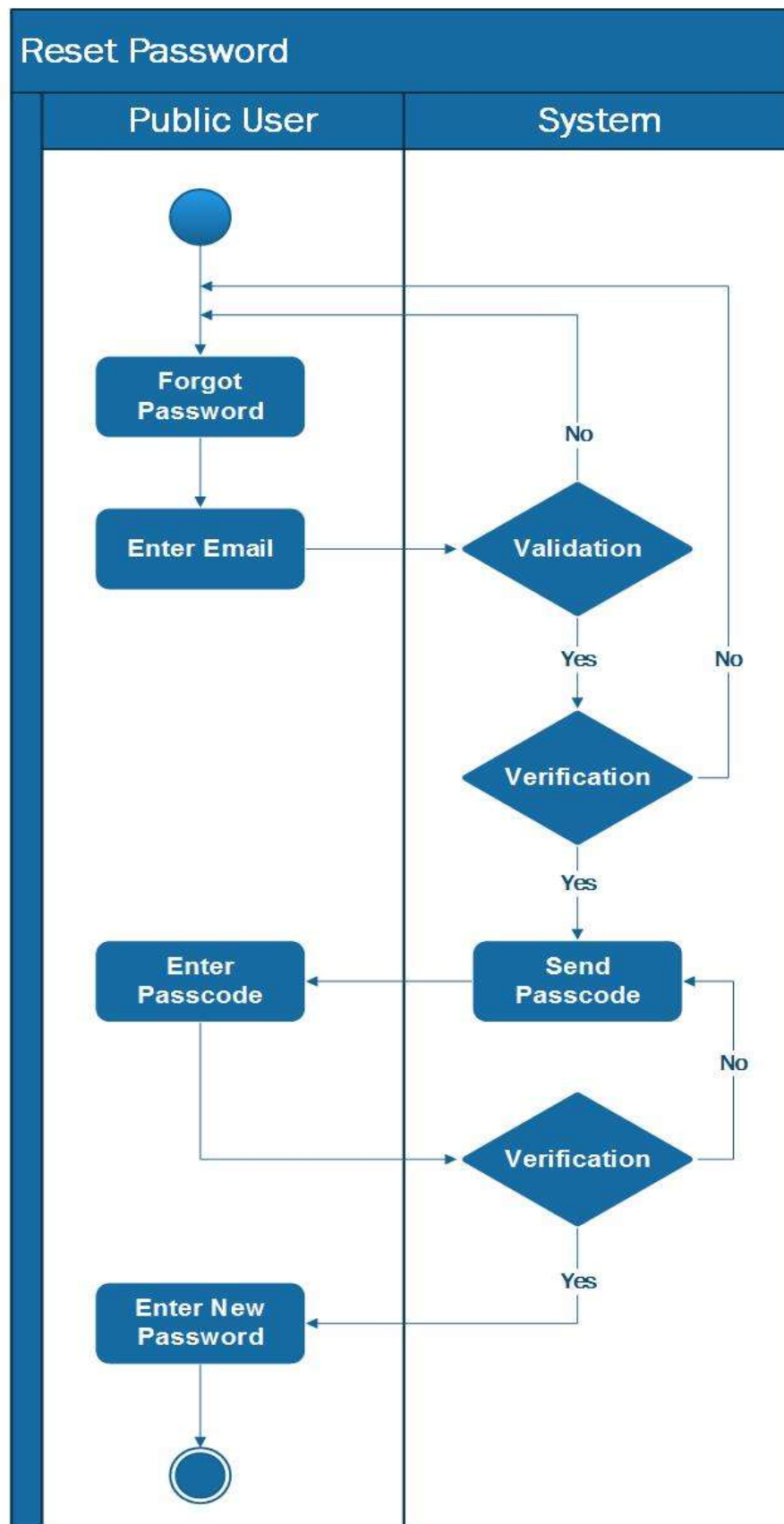
New Password

Confirm Password

4.3.6. Field Specifications:

Field Name	Mandatory	Specifications
E-mail / Phone Text box	Y	String
Reset button		Button that confirms e-mail / phone
Enter code Text box	Y	Numeric
Send again Link		This link to generate and send a new passcode again
New Password Text box	Y	String
Confirm Password Text box	Y	String
Reset button		Button that confirms new password

4.3.7. Activity Diagram:



- **FR04: Public Beach**

4.4.1. Description:

The ABC Employee can add public beach, edit, and inactivate the public beaches

4.4.2. Goals:

The ABC Employee can add public beach to can create NOC request for Caravan Camping.

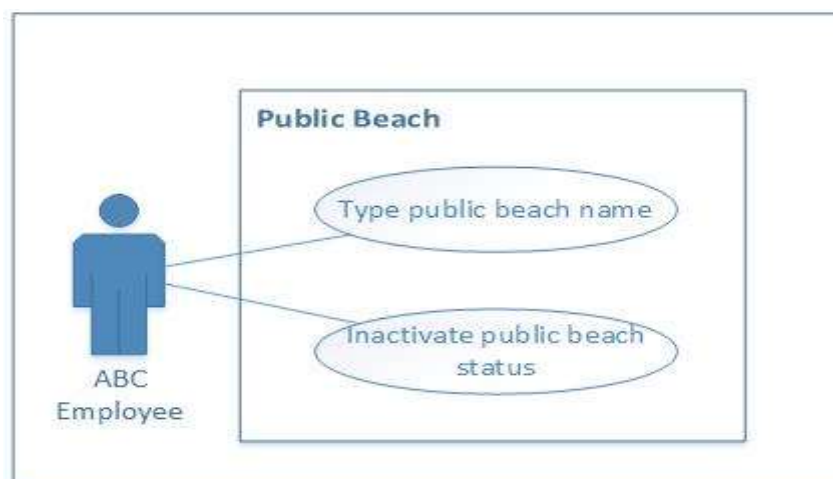
4.4.3. Functions:

ID	Description
FR04.1	The system must allow the ABC employee to add new beach.
FR04.2	The system must allow the ABC employee to inactivate the public beaches status.

4.4.4. Rules:

ID	Rule	Type
1	In case of entering the public beach name the system will give us a message "Public beach has added successfully"	System
2	In case of leaving the public beach name empty, the following messages will display "Please enter the public beach name"	System
3	The default status for new public beach is active	Business

4.4.5. Use case:



4.4.6. Wireframe:

Enter beach name

Beach	Status

Beach ID Date

Beach Name ☒ Beach Status

Description

4.4.7. Field Specifications:

Field Name	Mandatory	Specifications
Beach search	N	String Field
Add button		Button that add new beach
Edit button		Button that inactivate beach status
Beach ID	Auto generate	String Field
Beach name	Y	String Field
Description	N	String Field
Date	Default	Date/time
Beach status		Checkbox to enable beach status field
Beach status		Dropdown list to select beach status

- **FR05: Registry Vehicle**

4.5.1. Description:

Public user can register more than one vehicle.

4.5.2. Goal:

Public user can register his vehicle to submit request and issue NOC permit.

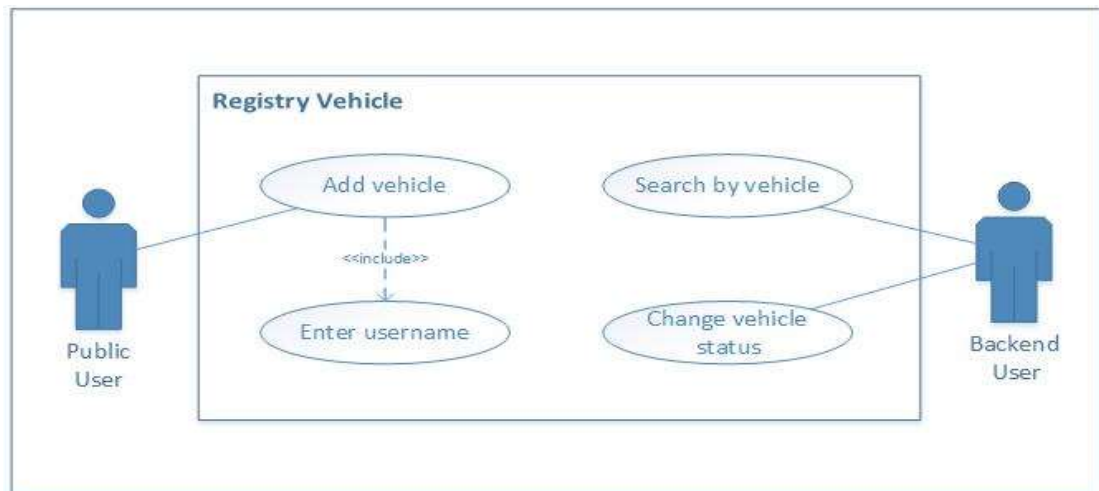
4.5.3. Functions:

ID	Description
FR06.1	The system must allow the public user to add new vehicle.
FR06.2	The system must allow the backend user to block the vehicle just In case if violated.
FR06.3	The system must allow the backend user to modify the vehicle Status.

4.5.4. Rules:

ID	Rule	Type
1	In case of entering a vehicle label number and username the system will give us a message "Vehicle has added successfully"	System
2	In case of leaving vehicle label number and/or username empty, one of the following messages will display "Please enter vehicle label", "Please enter username", "Please enter vehicle label and password"	System
3	In case of adding or modifying the vehicle status the following messages will display "The vehicle status has updated successfully"	System

4.5.5. Use case:



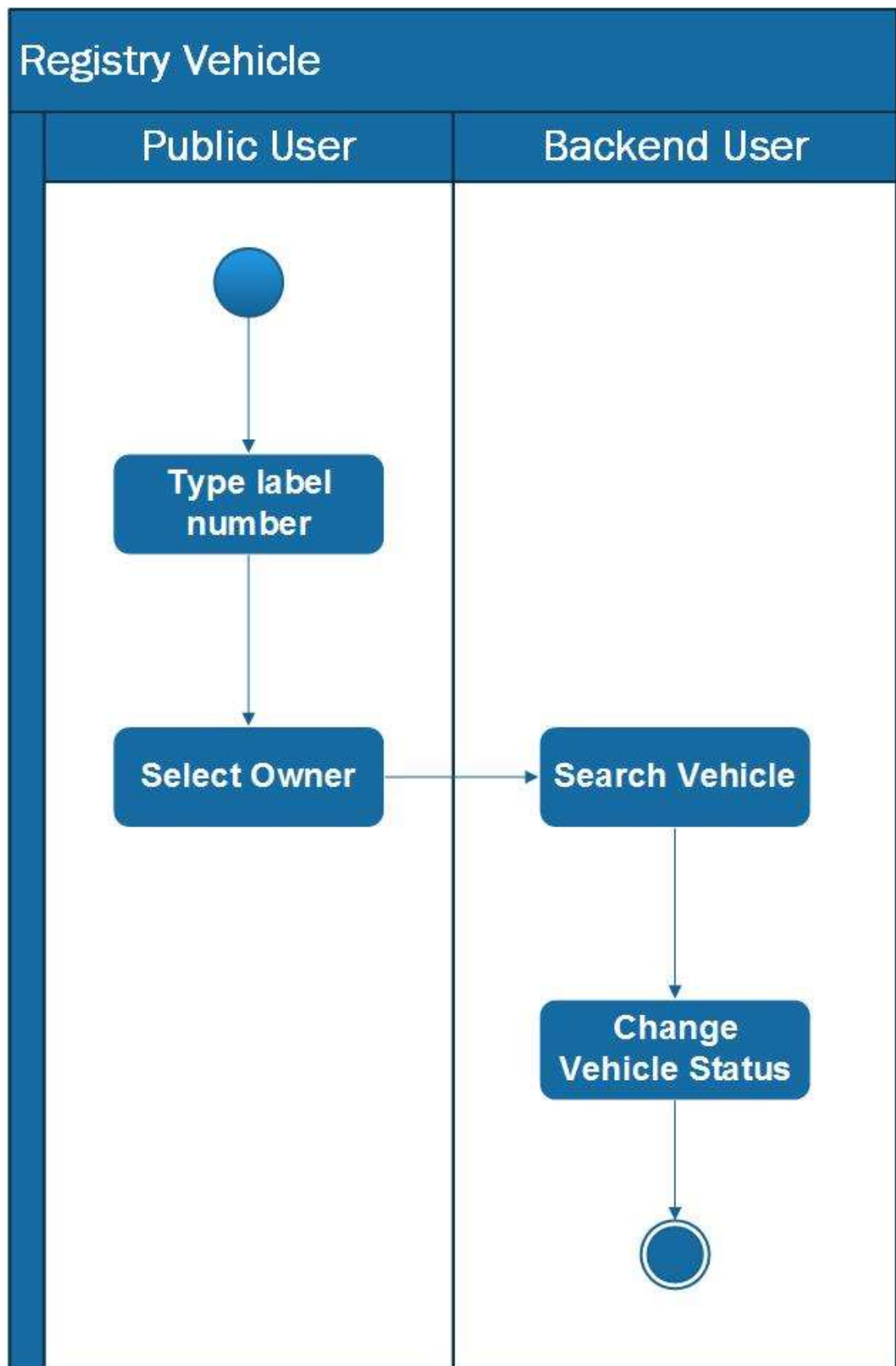
4.5.6. Wireframe:

The wireframe shows the layout of the 'Registry Vehicle' interface. On the left is a table with columns 'Label no.' and 'Status', each with a search icon. To the right are input fields for 'Vehicle ID', 'Vehicle Label', and 'Description'. Further right are fields for 'Register Date', 'User Name', and a 'Vehicle Status' section with a checked checkbox and a 'Blocked' button.

4.5.7. Field Specifications:

Field Name	Mandatory	Specifications
Vehicle search	N	String Field
Add button		Button that add new vehicle
Edit button		Button that update vehicle status
Vehicle ID	Auto generate	String Field
Vehicle Label	Y	String Field
Description	N	String Field
Register Date	Default	Date/time
Username	Y	String Field
Vehicle status		Checkbox to enable vehicle status field
Vehicle status		Dropdown list to select vehicle status

4.5.8. Activity Diagram



- **FR06: Request NOC**

4.6.1. Description:

Public user can obtain a no objection certificate (NOC) by enter vehicle Information, arrival Information, and leave Information.

4.6.2. Goal:

Public user can obtain a no objection certificate (NOC) for caravan camping on the public beach area for a maximum period of one week.

4.6.3. Functions:

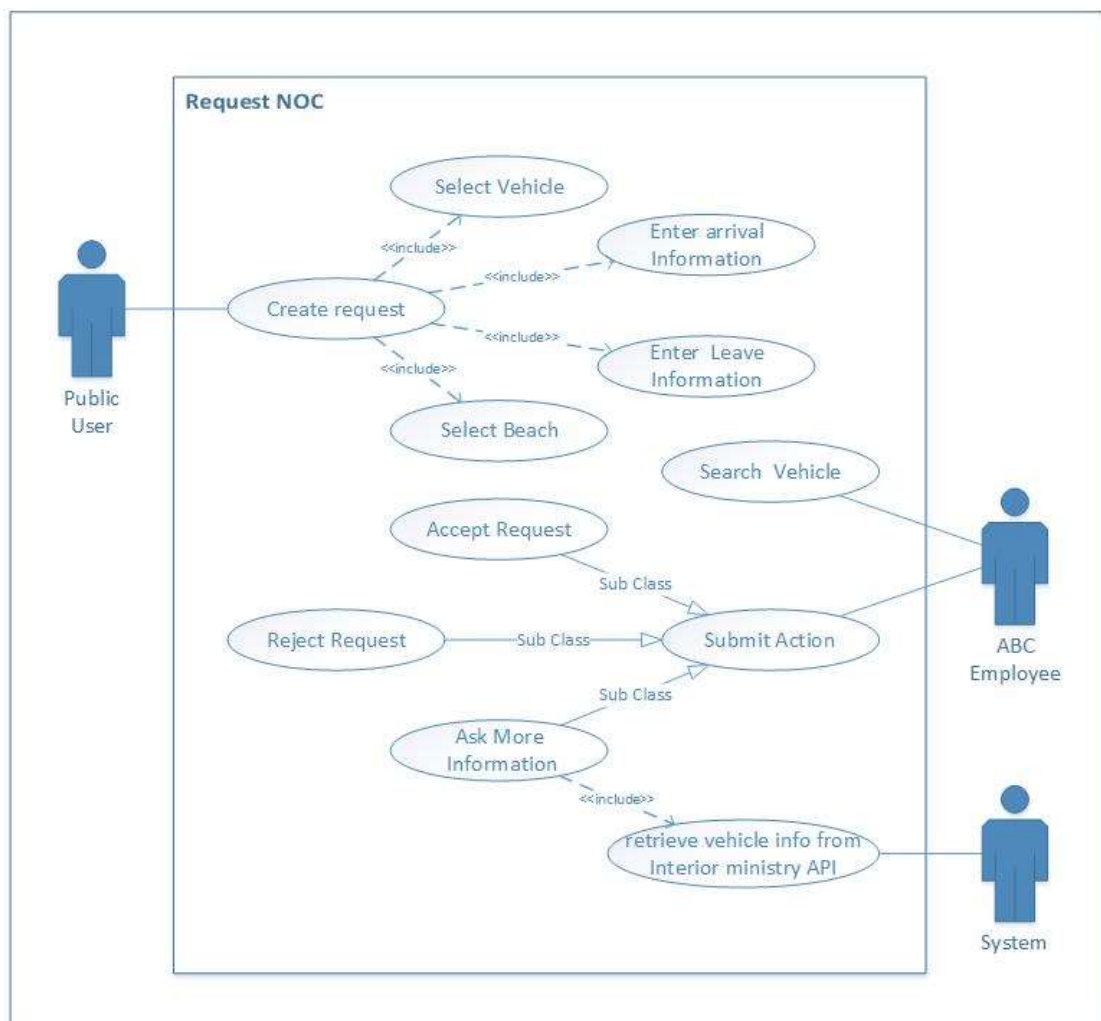
ID	Description
FR07.1	The system must allow the public user to add new request after 15 days from last permit expiration date for the same vehicle.
FR07.2	The system issues NOC for public beach area for a maximum period of one week.
FR07.3	The system must issues 45 of NOC at the same time per the public beach.
FR07.4	The system can't allow the blocked vehicles for other permits.

4.6.4. Rules:

ID	Rule	Type
1	In case of entering a arrival duration more than one week the system will give us a message "Please check arrival Information"	Business
2	In case of entering a violated vehicle the system will give us a message "Vehicle has blocked"	Business
3	In case of creating request a specific vehicle before 15 days from last permit expiration date. the system will give us a message "Please check arrival Information"	Business
4	In case of creating request during the duration which has 45 vehicle the system Will give us message "Please check arrival Information"	Business

5	In case the ABC employee is select the request action is "Ask for more information" the system will select the vehicle info from "Interior ministry API" by the vehicle label number.	Business
6	In case of leaving vehicle Information, arrival Information, and leave Information empty, one of the following messages will display: "Please enter vehicle Information", "Please enter arrival Information", "Please enter leave Information"	System
7	In the case of creating a request that fulfills all business rules and typed vehicle Information, arrival Information, and leave Information of the following messages will display "The request has created successfully"	System
8	In case of adding or modifying the request action the following messages will display "The request action has updated successfully"	System

4.6.5. Use case:



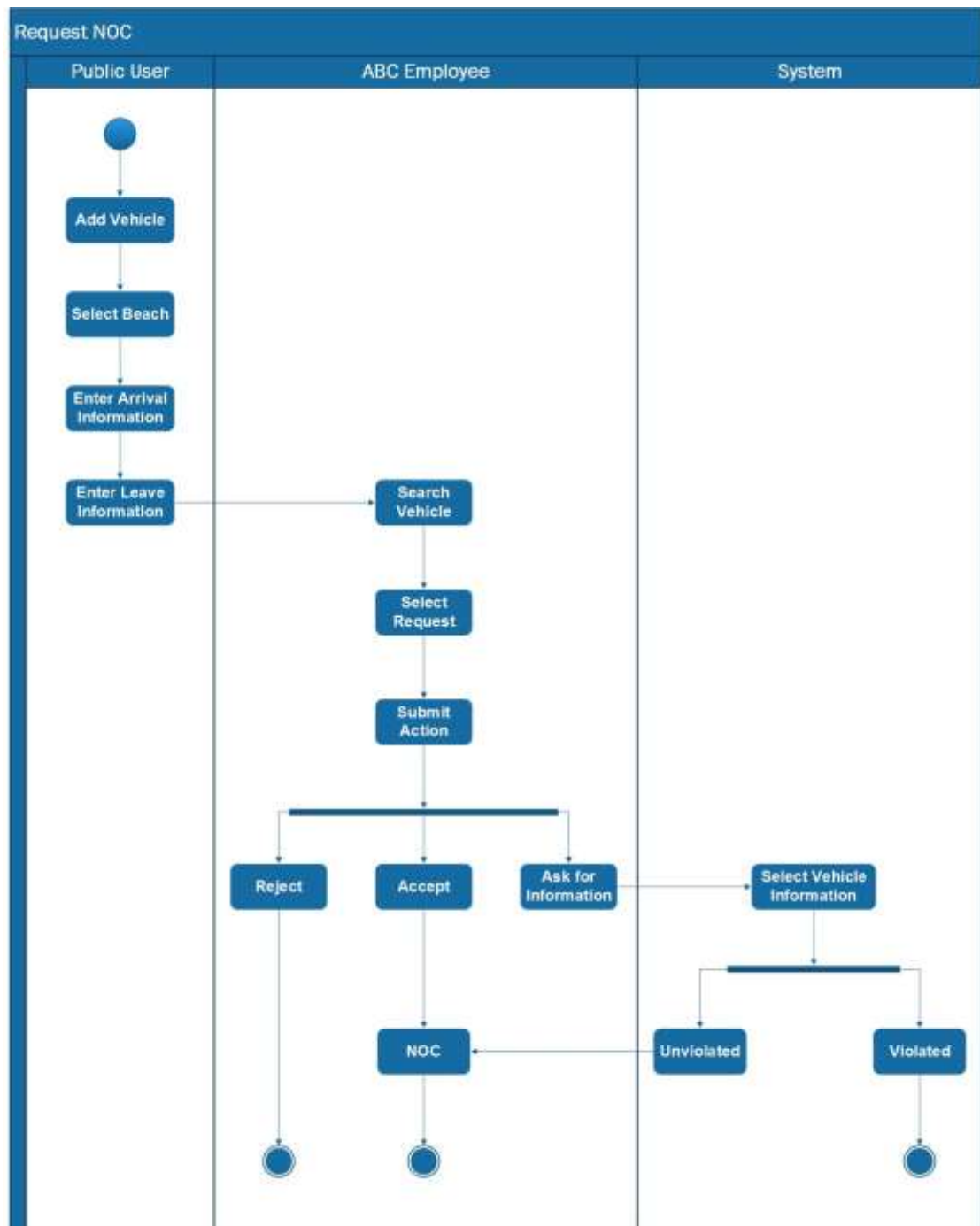
4.6.6. Wireframe:

The wireframe shows a form for managing vehicle requests. On the left, there is a search bar labeled 'Enter Vehicle label' with a magnifying glass icon and a plus sign button. Below it is a table with two columns: 'Request' and 'Action'. The 'Request' column contains a list of request IDs, and the 'Action' column contains checkboxes. To the right of the table, there are input fields for 'Request ID', 'Vehicle Label', 'Arrival Date', 'Leave Info', 'Request Date', 'Beach Name', 'Departure Date', and a checkbox for 'Action'. A 'More Information' button is also present. Below these fields, there is a section for vehicle details with input fields for 'Vehicle Type', 'Vehicle Model', and 'Vehicle License'.

4.6.7. Field Specifications

Field Name	Mandatory	Specifications
Vehicle search	N	String Field
Add button		Button that add new request
Edit button		Button that update request action
Request ID	Auto generate	String Field
Vehicle Label	Y	String Field
Arrival date	Y	Date/time
Leave info	Y	String Field
Request date	Default	Date/time
Beach name	Y	Dropdown list to select beach
Departure date	Y	Date/time
Action		Checkbox to enable action field
Action		Dropdown list to submit action
Vehicle type	Inquiry Field	String Field
Vehicle model	Inquiry Field	String Field
Vehicle license	Inquiry Field	String Field

4.6.8. Activity Diagram



- **FR07: Search Portal**

4.7.1. Description:

This screen considerate as inquiry portal that provides multi-search features.

4.7.2. Goal:

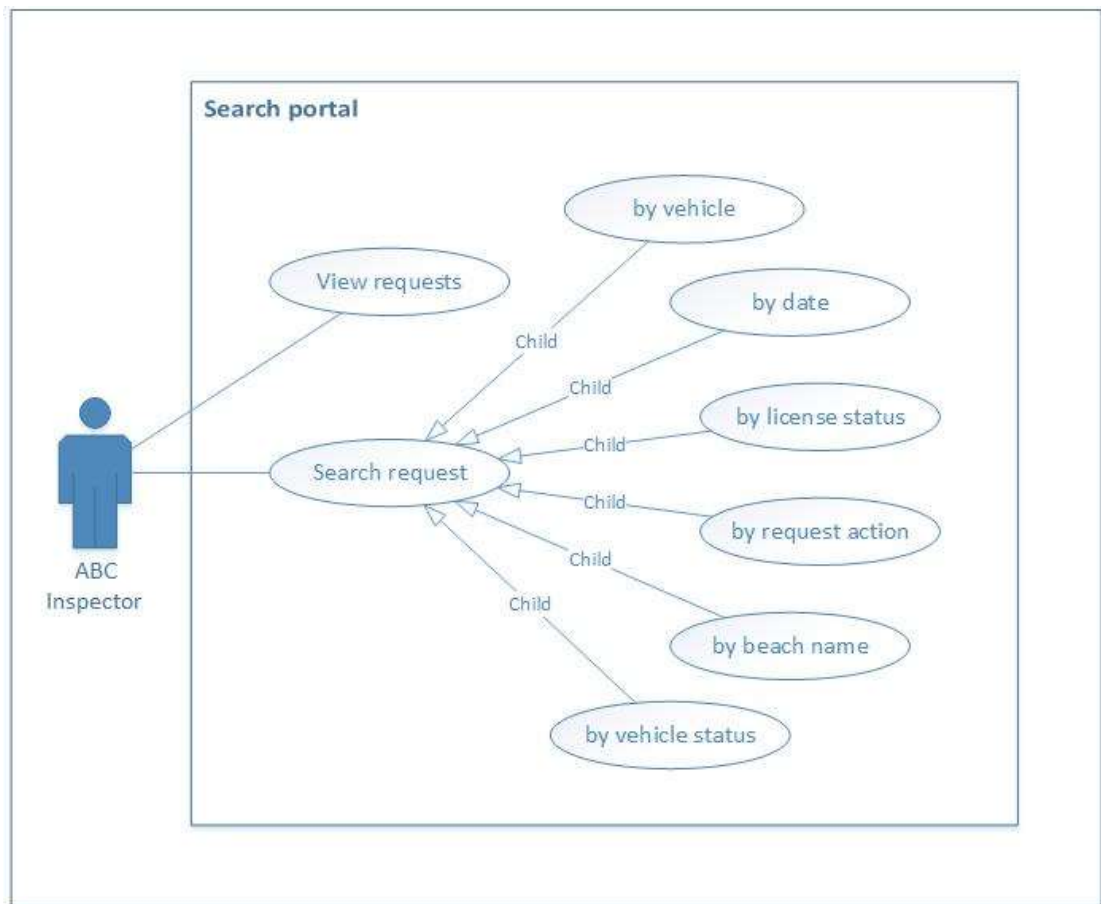
Allow ABC inspectors to view the issued permits for specific beach on the specific duration by:

- Assign action as accept
- Assign start date
- Assign end date
- Assign beach name

4.7.3. Functions:

ID	Description
FR08.1	Search by request ID
FR08.2	Search by vehicle label number
FR08.3	Search by request date
FR08.4	Search by license status
FR08.5	Search by request action
FR08.6	Search by beach name
FR08.7	Search by vehicle status

4.7.4. Use Case:



4.7.5. Wireframe:

Request ID	<input type="text"/>	Vehicle Label	<input type="text"/>	License	<input type="text"/>	Beach Name	<input type="text" value="0001"/>
From Date	<input type="text" value="05/03/2022"/>	To Date	<input type="text" value="05/03/2022"/>	Action	<input type="text" value="Accept"/>	Vehicle Status	<input type="text"/>

Request ID	Request Date	Vehicle Label	License Status	Beach Name	Request Action	Vehicle Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5. Non Functional Requirements

- **Performance Requirements**

ID	Description
NF1.01	Web portal must support English and Arabic Language
NF1.02	Web portal must respond to the business operation in less than 3 seconds
NF1.03	Web portal must display a confirmation message before applying the operation
NF1.04	Web portal must respond to the validation messages (success or failure) to the user within 2 seconds
NF1.05	Web portal must work on different browsers: <ul style="list-style-type: none">• Google Chrome• Mozilla Firefox• Microsoft Edge

- **Safety Requirements**

ID	Type	Method	Schedule	Destination
NF2.01	Full Backup	Automatic	Daily	QNAP Server
NF2.02	Full Backup	Manual	Daily	Google Drive
NF2.03	Full Backup	Manual	Daily	External HD

- **Security Requirements**

ID	Description
NF3.01	Web portal must handle safety login and logout through the session
NF3.02	Hashing technology should be used to handle the secure login for the user
NF3.03	Web portal could use SSL (secure socket layer) to secure the data being transmitted
NF3.04	The database should be secured from SQL injection to prevent leak Or loss of information.