



Vehicle Reservation System

Business Requirements Document

V1.0

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1.0 Introduction

1.1 Purpose of this document

This document is aimed at:

- Providing the necessary inputs to the detailed requirements gathering phase and further on for the SDLC processes.
- This document also serves to establish the traceability between the Business Objectives and the requirements identified in the proposed solution and how they satisfy the stated objectives.
- Provide expectation traceability in terms of the requirements and the user expectation
- Serves as a formal template for documenting the Business Requirements which also includes statutory and regulatory requirements.

The purpose of this document is to systematically capture the requirements of the project and the system to be developed. The document also captures the Functional requirements and serves as an input for the scope of project.

1.2 Project Overview

1.2.1 Objectives

The objective of this document is to have the overall requirement that would let the fleet management company be able to record & assimilate live inventory data from the branch stores and trigger the need to supply necessary vehicles & vehicle spares to the branch store that is running out of stock.

The application would include the following modules:

User Registration and login

Update Vehicle details

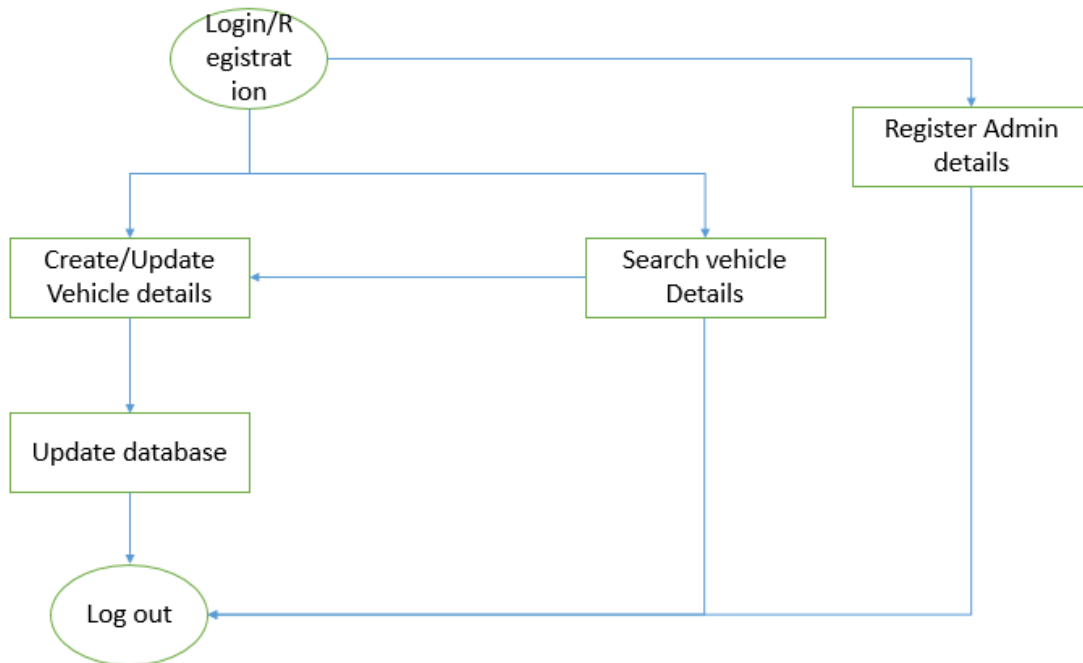
Search Vehicle details

1.3 Intended Audience

- Interns/Project Team
- Mentors and SME's
- Delivery assurance/excellence group

2.0 Process Architecture

Below is the overall functional flow of the project including the components of interaction



3.0 High Level Business Requirements

Note - Primary focus is to complete developing the critical requirements (highlighted in Yellow) and then to proceed with the remaining requirements.

S.No.	Business Requirement ID	Short Description	Description in detail	Interacting Business Processes
1	Req_1	Initial Selection	Ability of the system to allow to user to choose Admin/User Login/Registration	
2	Req_2	Member Registration	Member Registration Ability of the system to procure the fundamental details of the Member	
3	Req_3	Member Authentication	Ability of the system to authenticate the Member credentials of the registered Member	
4	Req_4	Admin Registration	Ability of the system to	

			procure the fundamental details of the Admin	
5	Req_5	Admin Authentication	Ability of the system to authenticate the credentials of the registered Admin	
6	Req_6	View registration request	Admin should be able to view the registration request awaiting approval	
7	Req_7	Member Registration approval	Ability of the admin to approve Member registration.	
8	Req_8	Add Vehicles	Ability of the admin to add a new vehicle	
9	Req_9	View vehicle list and details	Ability to view the vehicle list by admin/User	
10	Req_10	Vehicle details page - Admin	Ability of the system to update/delete vehicle by admin	
11	Req_11	Vehicle details page- User	Ability of the system to allow user to reserve vehicle	
12	Req_12	Payment gateway	Ability of the system to confirm booking on successful payment	
13	Req_13	Send Notification	Ability of the system to send notification on successful booking	
14	Req_14	Cancel Vehicle	Ability of the user to cancel a booked vehicle	
15	Req_15	Refund payment	Ability of the system to refund the amount paid based on booking (See conditions)	
16	Req_16	Due for Service/Insurance renewal	Notification should be sent to admin on details of due for service/insurance renewal	
17	Req_17	Discounts/Promo codes	Ability of the system to show Discounts/promo details on the home page	

4.0 Detailed Business Requirements

4.1 Functional Requirements

The functional requirements are projected below, for each of the high level requirements called out in the earlier section

Additionally, the following elements are captured for each business requirement in the table provided below:-

* Req. Type = (F Core Functionality, E Exception, UI User Interface, R Reporting)

** Priority of Requirement = (1=Base Functionality, 2=Advanced Functionality, 3=Additional Opportunities)

** Originator = (Name of the business process of the system/ department or function name in the customer organization)

The Requirements in this document are prioritized as follows:

Value	Rating	Description
1	Critical	This requirement is critical to the success of the project. The project will not be possible without this requirement.
2	High	This requirement is high priority, but the project can be implemented at a bare minimum without this requirement.
3	Medium	This requirement is somewhat important, as it provides some value but the project can proceed without it.
4	Low	This is a low priority requirement, or a "nice to have" feature, if time and cost allow it.
5	Future	This requirement is out of scope for this project, and has been included here for a possible future release.

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_1.1	Initial selection	Screen should display the option for Admin login / Registration and Member login / Registration	UI	Critical	NA	Req_1	
Req_2.1	Member Registration	When the Member clicks on the registration link, it should re-direct to registration form.	UI	Critical	NA	Req_2	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_2.2	Member Registration	Member needs to fill some of the basic attributes/fields as mentioned below in requirement: First Name, Last Name, Age, Gender, Contact Number, Member Id, Password	UI	Critical	NA	Req_2	Please refer to Table 1.0 under References
Req_2.3	Member Registration	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_2	
Req_2.4	Member Registration	Member failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_2	
Req_2.5	Member Registration	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_2	
Req_2.6	Member Registration	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	E	Medium	NA	Req_2	
Req_2.7	Member Registration	Admin should be able to view the New Members for registration	F	Critical	NA	Req_2	
Req_2.8	Member Registration	Admin should approve / reject the Member Request.	F	Critical	NA	Req_2	
Req_2.9	Member Registration	If rejected, the Member should not be allowed to login with the registered credentials	F	Critical	NA	Req_2	
Req_2.10	Member Registration	Member should get SMS on Approval / Rejection	E	Medium	NA	Req_2	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_3.1	Credential Authentication	A registered Member – is able click 'Login' link, after keying in 'Member ID' & 'Password' field and get his credentials authenticated with the existing database entry.	F	Critical	NA	Req_3	
Req_4.1	Admin Registration	When the Admin clicks on the registration link, it should re-direct to registration form.	UI	Critical	NA	Req_4	
Req_4.2	Admin Registration	Admin needs to fill some of the basic attributes/fields as mentioned below in requirement: First Name, Last Name, Age, Gender, Contact Number, Vendor Id, Password	UI	Critical	NA	Req_4	
Req_4.3	Admin Registration	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_4	
Req_4.4	Admin Registration	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_4	
Req_4.5	Admin Registration	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_4	
Req_4.6	Admin Registration	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	E	Medium	NA	Req_4	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_5.1	Credential Authentication	A registered user – is able click 'Login' link, after keying in 'Admin ID' & 'Password' field and get his credentials authenticated with the existing database entry.	F	Critical	NA	Req_5	
Req_6.1	View registration request	Admin should be able to view the registration request awaiting approval	F	Critical	NA	Req_6	
Req_7.1	Member Registration approval	Admin should be able to view the registration request awaiting approval	F	Medium	NA	Req_7	
Req_7.2	Member Registration approval	Admin should be able to approve or deny the registration request.	F	Medium	NA	Req_7	
Req_7.3	Member Registration approval	Upon approval, member should be able to log in successfully.	F	Medium	NA	Req_7	
Req_7.4	Member Registration approval	Upon denial, message should be displayed when they try to log in.	F	Medium	NA	Req_7	
Req_7.5on	Member Registration approval	Notification should be sent to the member on their approval status	F	Medium	NA	Req_7	
Req_8.1	Add vehicle	Admin on successful login should have option to add new vehicles	F	Medium	NA	Req_8	
Req_8.2	Add vehicle	Vehicle details should contain all the vehicle details – Vehicle name, model,number, year of manufacturing,insurance renewal date, last service date, next service date,status etc	F	Medium	NA	Req_8	Fields can be added in the course of build.
Req_9.1	View vehicle list and details	Admin/User on log in should be able to view all the vehicle list	F	Medium	NA	Req_9	
Req_9.2	View vehicle list and details	The view should have the filter and sort option.	F	Medium	NA	Req_9	
Req_9.3	View vehicle list and details	Filter should have different category as vehicle type, status, 4 seater/6 seater etc	F	Medium	NA	Req_9	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_9.4	View vehicle list and details	The view list should give the minimal details of the vehicle and its status	F	Medium	NA	Req_9	
Req_9.5	View vehicle list and details	Booked/ vehicle under maintenance should show the next available date for booking	F	Medium	NA	Req_9	
Req_9.6	View vehicle list and details	On selecting the vehicle, the vehicle details page should open which should list all the details of the vehicle	F	Medium	NA	Req_9	
Req_9.7	View vehicle list and details	Search option should be available for admin/user	F	Medium	NA	Req_9	
Req_9.8	View vehicle list and details	Search option can be used to search based on Vehicle number	F	Medium	NA	Req_9	
Req_9.9	View vehicle list and details	On selecting the vehicle, the vehicle details page should open which should list all the details of the vehicle	F	Medium	NA	Req_9	
Req_10.1	Vehicle details page- Admin	Admin should have an option to edit the Vehicle details	F	Medium	NA	Req_10	Basic details such as name/model/number etc shouldn't be modifiable.
Req_10.2	Vehicle details page- Admin	Admin should be able to delete any vehicle details, which should be deleted from the database.	F	Medium	NA	Req_10	
Req_11.1	Vehicle details page- user	Vehicle details shouldn't be editable for User.	F	Medium	NA	Req_11	
Req_11.2	Vehicle details page- user	User should have option to book the Vehicle.	F	Medium	NA	Req_11	
Req_11.3	Vehicle details page- user	User on clicking the Book Vehicle option, User should be prompted to enter the number of days the vehicle should be reserved.	F	Medium	NA	Req_11	
Req_11.4	Vehicle details page- user	User on clicking the Book Vehicle option, User should be prompted to enter the number of days the vehicle should be reserved.	F	Medium	NA	Req_11	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_11.5	Vehicle details page-user	On entering the number of days the vehicle will be reserved, the amount to be paid should be displayed.	F	Medium	NA	Req_11	
Req_11.6	Vehicle details page-user	User should be provided with any discounts / promocode/ coupon code etc for the fare	F	Medium	NA	Req_11	Eg: 10% discount on paying through SBI/ Apply coupon promo05 for 5% discount etc
Req_12.1	Payment gateway	User should have different option to pay	F	Medium	NA	Req_12	
Req_12.2	Payment gateway	On Successful payment, booking should be confirmed and the vehicle status should be updated automatically	F	Medium	NA	Req_12	
Req_13.1	Send Notification	Notification should be sent to user on successful booking	F	Medium	NA	Req_13	
Req_14.1	Cancel Vehicle	User should be able to cancel his reserved vehicle	F	Medium	NA	Req_14	
Req_15.1	Refund payment	On Cancelling the the amount paid during should be refunded to the user based on the time he is cancelling	F	Medium	NA	Req_15	See conditions for Cancelling fee under 5.3
Req_16.1	Due for Service/insurance renewal	Notifications should be send to admin for service due date before 15 working days	F	Medium	NA	Req_16	
Req_16.2	Due for Service/insurance renewal	Notifications should be send to admin for insurance renewal before 15 working days	F	Medium	NA	Req_16	
Req_17.1	Discounts/Promo codes	Home page should display any discounts/ promo codes.	F	Medium	NA	Req_17	

5.0 References

Note: The below listed Table Fields/Values are created for simple reference. Details can be altered (Added/Removed/Modified) as required during the course of project progress to suit the requirements.



5.1 User Info table

Field Name	Field Type	Data Type	Possible Values
Employee Id	Text(6)	AlphaNumeric	
First Name	Text(50)	Alphabetic	
Last Name	Text(50)	Alphabetic	
Age	Numeric(2)	Numeric	
Gender	Drop Down	NA	Male, Female
Contact Number	Text(10)	Numeric	
Email ID	Text(50)	Alphanumeric	
Password	Text(15)	Alphanumeric	
Branch	Text(5)	Alphanumeric	

5.2 Vehicle Info table

Field Name	Field Type	Data Type	Possible Values
Vehicle No	Text(10)	AlphaNumeric	
Branch	Text(5)	Alphabetic	
Vehicle type	Text(15)	Alphabetic	
Insurance Expiry date	Text(10)	MM-DD-CCYY	
Last Serviced Date	Text(10)	MM-DD-CCYY	
Service Due date	Text(10)	MM-DD-CCYY	

5.3 Cancellation fee calculation

Below are the conditions to charge the cancellation fee.

- If the User cancels the reservation before 2 days of the booking, then 10% of the amount should be deducted
- If the User cancels the reservation before 1 days of the booking, then 20% of the amount should be deducted
- If the User cancels the reservation before 1 days of the booking, then 30% of the amount should be deducted

6.0 Terms and conditions

GenCs shall be solely responsible for all its acts and omissions under this program. Interns will comply at all times with all applicable laws. Interns shall not use Cognizant's name, logo and trademark in any promotional materials or other communications with third parties without the prior written consent of Cognizant. Any materials used by interns in relation to program will not infringe the copyrights, trademarks, patents, trade secrets or other intellectual property rights, privacy or similar rights of any person or entity. Interns agrees not to post, draw, make, display any content that is threatening, libelous, obscene, defamatory, abusive, pornographic, or advocates/encourages any conduct that could constitute a criminal offence or give rise to any civil liability. Cognizant its associates' personal details including but not limited to name, address, contact number shall not be shared or forwarded to any third party, without prior written consent of Cognizant, its associates. All intellectual property provided by Cognizant as part of program shall be owned exclusively by Cognizant. Intern shall indemnify, defend and indemnify Cognizant its associates, officers, directors from and against any claims, demands, loss, damage, liability, causes of action, judgments, or costs and expenses of every nature (including attorney's fees and expenses) incurred by Cognizant based on any claim that any breach of terms and conditions of this program.

7.0 Change Log

Version Number	Changes Made			
V1.0.0	Initial baseline created on <dd-Mon-yy> by <Name of Author>			
Vx.y.z	<Please refer the configuration control tool / change item status form if the details of changes are maintained separately. If not, the template given below needs to be followed>			
	Section No.	Changed By	Effective Date	Changes Effectuated