On Road Assistance Application

Business Requirements Document

V1.0

	Prepared By / Last Updated By	Reviewed By	Approved By
Name	Cognizant Academy		
Role			
Signature			
Date			

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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 requirements for 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

Below are the objectives that shall be fulfilled post the execution of this project:

- Customer and Mechanic registration and credential authentication.

- Requests for service by customer.

- Location based searching of mechanics.

- Accepting requests made by customer and providing service.

- Real time navigation.

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:
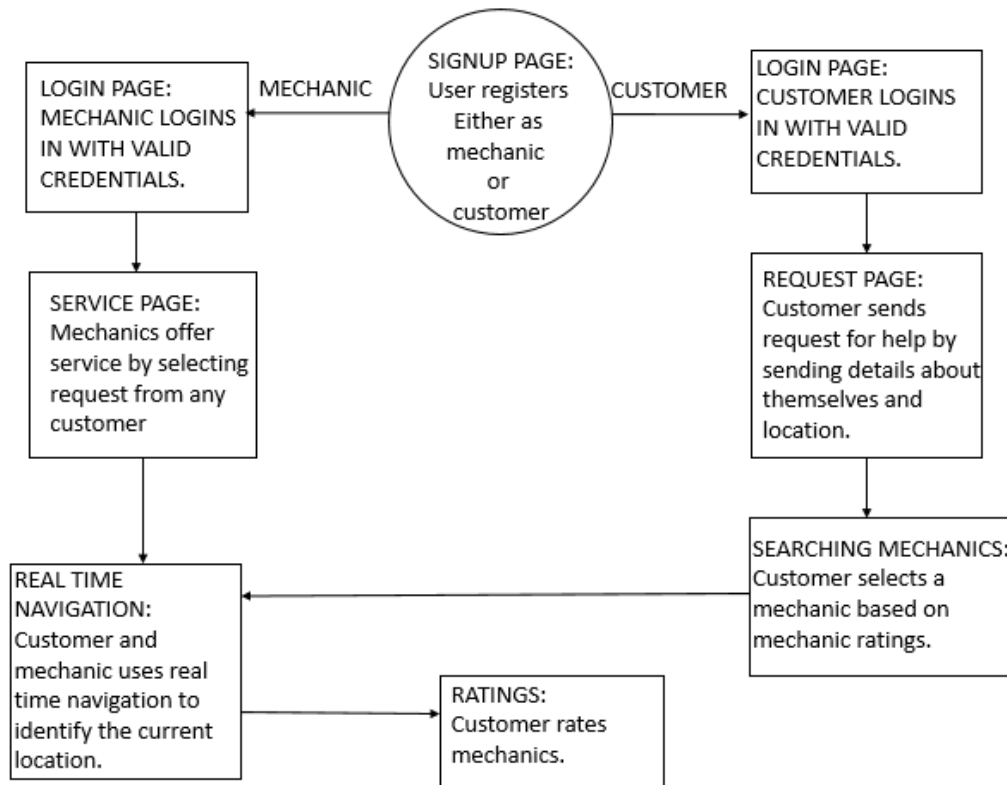
3.0 High Level Business Requirements

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	Customer and Mechanic registration.	Ability of the system to procure the fundamental details of the customer and mechanic	
2.	Req_2	Customer and Mechanic Authentication	Ability of the system to authenticate the credentials of the registered customer and mechanic.	
3.	Req_3	Customer Requests	Ability of system to submit requests to mechanic.	

4.	Req_4	Accepting Requests (Mechanic Module)	Ability of system to enable mechanics to accepts requests from customer	
5.	Req_5	Real time navigation	Ability of system to enable mechanic and customer to reach out through real time navigation.	
6.	Req_6	Mechanic Rating	Ability of system to enable customer to rate mechanic.	

4.0 Detailed Business Requirements

4.1 Functional Requirements

The functional requirements are charted 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:

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	Remarks
Req_1.1	Customer and Mechanic Registration	When the user clicks on the registration link, it should re-direct to registration form.	UI	Critical	NA	Req_1	
Req_1.2	Customer and Mechanic Registration	User needs to fill some of the basic attributes/fields as mentioned below in requirement: First Name, Last Name, Age, Gender, Contact Number, Password, Email	UI	Critical	NA	Req_1	Please refer to Table 1.0 & 2.0 under References
Req_1.3	Customer and Mechanic Registration	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_1	
Req_1.4	Customer and Mechanic Registration	User 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_1	
Req_1.5	Customer and Mechanic Registration	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_1	
Req_1.6	Customer and Mechanic Registration	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	E	Medium	NA	Req_1	
Req_2.1	Credential Authentication	A registered user – is able click 'Login' link, after keying in 'User ID' & 'Password' field and get his credentials authenticated with the existing database entry.	F	Critical	NA	Req_2	Please refer to Table 3.0 under References
Req_3.1	Customer Requests	Customer is able to click request button.	F	Critical	NA	Req_3	
Req_3.2	Customer Requests	Customer should enter their current location and their basic information is fetched from database.	F	Critical	NA	Req_3	Please refer to Table 4.0 under References
Req_3.3	Customer Requests	Clicking 'SEARCH' will navigate to next page along with the entered details.	F	Critical	NA	Req_3	
Req_3.4	Customer Requests	User 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_3	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
Req_3.5	Customer Requests	Customer can choose mechanics from a list which is ordered based on mechanics previous ratings	F	Medium	NA	Req_3	
Req_3.6	Customer Requests	Mechanics receives requests has option to accept or reject the requests, in which case, customer can choose other mechanic from the list.	F	High	NA	Req_3	
Req_4.1	Accepting Requests (Mechanic Module)	Mechanic has an option to accept or reject the request sent by customer, by clicking on the accept or reject button.	F	High	NA	Req_4	
Req_4.2	Accepting Requests (Mechanic Module)	If mechanic click 'ACCEPT' button, then it enters real time navigation.	F	High	NA	Req_4	
Req_4.3	Accepting Requests (Mechanic Module)	If mechanic click 'REJECT button, then it sends notification to customer suggesting them to choose any other mechanic.	F	Critical	NA	Req_4	
Req_5	Real time navigation	Customer and mechanic can locate each other, determine the estimated arrival time.	F	Critical	NA	Req_5	Please refer to Table 4.0 under References
Req_6	Mechanic Rating	After customer requests are fulfilled they can rate mechanic out of 5 which will be stored in database.	F	High	NA	Req_6	Please refer to Table 5.0 under References

5.0 References

5.1   Table 1.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Customer Name	Text(50)	Alphabetic	Yes	
Password	Text(50)	Alphabetic	Yes	
Gender	Numeric(1)	Numeric	Yes	Male, Female
Date of Birth	Date	NA	Yes	yyyy-MM-dd
Contact Number	Text(10)	Numeric	Yes	10 digits
Email ID	Text(30)	Alphanumeric	No	
Cust ID	Numeric(10)	Numeric	YES	

5.2   Table 2.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Mechanic Name	Text(50)	Alphabetic	Yes	
Password	Text(50)	Alphabetic	Yes	
Gender	Numeric(1)	Numeric	Yes	Male, Female
Date of Birth	Date	NA	Yes	yyyy-MM-dd
Contact Number	Text(10)	Numeric	Yes	10 digits
Email ID	Text(30)	Alphanumeric	No	
Latitude	Double	Numeric	Yes	For navigation
Longitude	Double	Numeric	Yes	For navigation

5.3   Table 3.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
User ID	Numeric(10)	Numeric	Yes	
Password	Text(50)	Alphabetic	Yes	
Type (Customer/Mechanic)	Text(1)	Alphabetic	Yes	C or M

5.4   Table 4.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Customer ID	Text(50)	Alphabetic	Yes	
Contact Number	Text(10)	Numeric	Yes	10 digits
Email ID	Text(30)	Alphanumeric	No	
Location	Text(30)	Alphabet	Yes	
Latitude	Double	Numeric	No	For navigation
Longitude	Double	Numeric	No	For navigation

5.5   Table 5.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Mechanic Id	Numeric(10)	Numeric	Yes	User Id of Mechanic
Customer ID	Numeric(10)	Numeric	Yes	User ID of Customer
Rating	Numeric	Numeric	Yes	0-5 (out of 5)

6.0 Terms & Conditions

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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 Effected**