# Software Requirements Specification

# for

# Vehicle Showroom Management System

Version 1.0 approved

Prepared by :

Deblin Das(160911190,41)

Vishal Chaturvedi(160911240,53)

Yash Raghav(1160911256,57)

<organization>

<date created>

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# Introduction

## Purpose

This software keeps track of all the information about the vehicles of the agency, their cost, their complete details and the vehicle brands offering these choices to help manage the vehicle showroom. It also keeps track of all purchases from the showroom, stores customer details and employee details

## Document Conventions

## Intended Audience and Reading Suggestions

There are two type of users, i.e., Administrator and Customer.

Administrator can use this software to keep track of customer purchases, customer details, employee details, and showroom database

Customer can use this software to view details and purchase vehicles after registering if not already registered. They can also use this software to keep track of servicing schedule and payment schedule.

## Product Scope

This product is helpful to track all the purchases from the showroom, store customer details and employee details. All the processes which showrooms offer and a module for booking vehicles is incorporated in the product. The software will be able to handle all the necessary information.

## References

# Overall Description

## Product Perspective

The Vehicle Showroom/Booking Management Software is a new, self-contained product. The product can be used in two contexts. One that of User and other the Administrator and has thus two subsystems. Both subsystems have the login functionality in common and the other interfaces are unique to both.

## Product Functions

For User:

* Login
* Registration
* Order vehicle
* Track order

For Administrator:

* Login
* Manage user and employee details
* Manage financial details

An unregistered user has option of viewing vehicles whereas an admin has to login to access all functionalities.

## User Classes and Characteristics

Different classes that will use this product:

* Administrator
* Registered User
* Unregistered User

The GUI is user friendly for all users and administrators and doesn’t require high technical experience. However privileges have been well differentiated for the classes above. Administrator has a higher frequency of usage compared to Users.

## Operating Environment

The software is a java application and supports any JAVA IDE, preferably Netbeans. Recommended OS is Windows 10. Software requires integration of databases to manage user and employees details.

No other third party software is needed. The execution of the software doesn’t affect any other application.

## Design and Implementation Constraints

The software is an open software that can be used by any person willing to view or purchase a vehicle.

However, only the Administrator has the control to modify the contents stored by the software and other employees don't have the access to do so.

## User Documentation

The consumers, that is, User and Administrator both will be provided with manuals, separately, I two text documents (.txt format). The user manuals wil be included in the same folder as software.

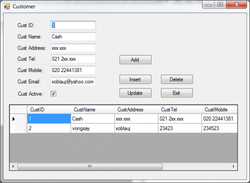
## Assumptions and Dependencies

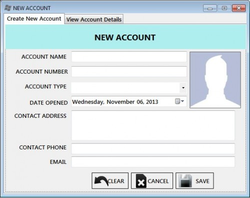
* The User cannot provide custom specifications on the website.
* Administrator doesn’t perform very detailed operations such as managing the delivery.
* The number of cars/vehicles are limited in the showroom.
* The application can be used on the system containing the database.

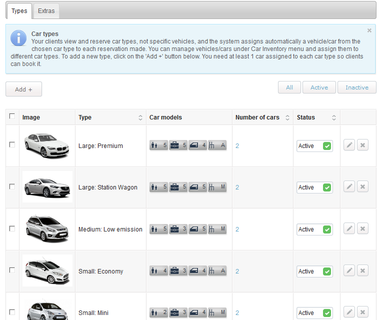
# External Interface Requirements

## User Interfaces

## 









* Sample images of the Vehichle Management System.
* Just for referential purpose, actual application may have a different accent and may function differently from the funtionality depicted in the above images or screens.

**3.2 Hardware Interfaces**

Processor: Intel dual core or above

Processor Speed: 1.0GHZ or above

RAM: 1 GB RAM or above

Hard Disk: 20 GB hard disk or above

## Software Interfaces

Language: Java, SQL (Back End)

Database: MySQL.

Integrated Development Environment(IDE): Netbeans (Front End)

JDBC for connectivity with database.

## Communications Interfaces

No communication interface used as of 27th February, 2018.

# System Features

## Authorizing Users

**4.1.1 Description and Priority**

The software will check against database the credentials and give the user authority accordingly whether he is an Administrator, registered User or unregistered User.

This feature is given Medium priority.

**4.1.2 Stimulus/Response Sequences**

After credential check, depending on the type of user screen will shown. If the user is an Administrator, administrating options will be shown. If the user is Registered, his/her profile will be shown and if the user is unregistered gallery will be shown.

**4.1.3 Functional Requirements**

REQ-1: Valid login credentials entered

## Retrieving Data from Database

**4.2.1 Description and Priority**

The software will retrieve the necessary data from the database as per the requirements which will be manipulated by the software as per the requirement. This feature is given High priority.

**4.2.2 Stimulus/Response Sequences**

The required data is retrieved from the database.

**4.2.3 Functional Requirements**

REQ-1: Proper implementation of database

REQ-2: Proper linking of database and GUI

REQ-3: Correct query used

## Saving Changes to the Database

**4.3.1 Description and Priority**

The software will save the changes made to the database keeping it upto date. This feature is given High priority.

**4.3.2 Stimulus/Response Sequences**

The database will be updated with latest data.

**4.3.3 Functional Requirements**

REQ-1: Proper implementation of database

REQ-2: Proper linking of database and GUI

REQ-3: Correct query used

## Processing Structured Data from User

**4.4.1 Description and Priority**

The software will add new data entries to the database inputted by the Administrator. This feature is given Medium priority.

**4.4.2 Stimulus/Response Sequences**

The database will be updated with latest data.

**4.4.3 Functional Requirements**

REQ-1: Proper implementation of database

REQ-2: Proper linking of database and GUI

REQ-3: Correct query used

## Displaying Relevant Data

**4.5.1 Description and Priority**

The software will retrieve the necessary data from the database as per the requirements and required information will be shown before or after manipulation of data by the software as per the requirement. This feature is given High priority.

**4.5.2 Stimulus/Response Sequences**

Required information is shown by the software.

**4.5.3 Functional Requirements**

REQ-1: Proper implementation of database

REQ-2: Proper linking of database and GUI

REQ-3: Correct query used

## Privileging Users with Necessary Operations

**4.6.1 Description and Priority**

The software will give privileges to the user accordingly whether he is an Administrator, registered User or unregistered User. If user is an Administrator, he/she can view and update the database, if the user is Registered he/she can buy vehicles else the user can only view the catalog of showroom. Privileges are given after successful credential check. This feature is given Medium priority.

**4.6.2 Stimulus/Response Sequences**

After credential check, depending on the type of user screen will shown. If the user is an Administrator, administrating options will be shown. If the user is Registered, his/her profile will be shown and if the user is unregistered gallery will be shown.

**4.6.3 Functional Requirements**

REQ-1: Valid login credentials entered

## Visually Appealing GUI

**4.7.1 Description and Priority**

The software will have very interactive and easy to use GUI. Users will have no problem using the software and can use the software without reading manuals.

This feature is given Low priority.

**4.7.2 Stimulus/Response Sequences**

Different reponses according to the action performed.

**4.7.3 Functional Requirements**

REQ-1: Proper implementation of swings

# Other Nonfunctional Requirements

## Performance Requirements

## Safety Requirements

## Security Requirements

## Software Quality Attributes

## Business Rules

# Other Requirements

Appendix A: Glossary

* Showroom
* SUV
* Sedan
* Hatchback
* Tracking ID
* Test drive
* Stipend
* Monthly report

Appendix B: Analysis Model

Use-Case Diagram: