

Software Requirements Specification

for

“Bike Showroom Management System”

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1. Introduction

1.1 Purpose

Bike Showroom Management system is a mini project that is used to keep and maintain the records of bikes, Customers, Booking. We have developed this project using SRS. It is a single user admin. The admin can manage all the information related to, Bike, booking, customer, Insurance etc. It has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases reduce the hardships faced by the existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

1.2 Intended Audience and reading Suggestions

This document is intended for developer, testers and project managers for the purpose of understanding the design of the system in terms of different perspectives. Further, this document contains functionalities and characteristics of system along with the working environment. It also includes other information related to system such as external interface requirements, features and other non- functional requirements.

1.3 Product Scope

Our main aim of this project is to provide the details of bike to the customer, update customers details while booking a bike, make the insurance, make the bills and manage the customer. Admin can view all the details of the old and updated entries in this software.

1.4 References

<https://projectsgeek.com/2019/09/bike-management-system-project.html>

<https://idoc.pub/documents/bike-showroom-management-system-project-report-1-9n0kwgm56k4v>

<https://sites.google.com/site/ignoubcafinalyearprojects/project-report/bike-showroom-management-system-project-report>

2. Overall Description

2.1 Product Perspective

The product perspective is to improve and change the existing process of managing the office activities which takes place in the traditional manner like maintaining the employee record, keeping the track of the stock of bikes which are booked and which are ordered by the showroom, maintaining the sales done by the showroom which are recorded in the physical manner in the form of registers like diary, etc to change and manage everything with a help of a software.

Looking at the issue of manual registering each and every process we can create solution for it by using the software product so that all the manual activities can be skipped and the functioning of the vehicle booking process can be improved and also can be reliable.

The main objective of the Project on Bike Showroom Management System is to manage the details of Bike, Company, Type, Customer, Booking, Insurance, Billing. It manages all the information about Bike, Payment, Booking, Bike. The project is totally built at administrative and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Bike, Payment, Type. It tracks all the details about the Type, Customer, Booking.

2.2 Product Functions:

The admin will be able to handle Login & Logout and Update information of Employee and itself.

The admin can keep a track of the bookings done by the showroom

The admin is also able to keep the track records of the Sales.

The employee will be able to manage booking done by customers

The employee will be able to manage payments.

2.3 User Classes and Characteristics:

Admin: -

Admin is able to handle the Login & Logout of itself and the employee. Admin can also update and change the information regarding to the employees.

Employee: -

Employee can manage the bookings, payments, insurance of the bike and can manage the employee.

2.4 Operating Environment:

❖ Hardware platform:

- Processor – 3rd Gen Processors (Intel) and Above
- Ram – Minimum 4 GB Ram or Above.
- Hard Disk - Minimum of 500 GB required

❖ Software Platform:

- Java, MySQL

2.5 Design and Implementation Constraints:

- User interface is only in English. No other language option is available.
- Employee can log-in only with his assigned user-name and password.

2.6 User Documentation:

The User Documentation contains Help menu of the application which is used as a reference for any help needed. It gives all the minute details about the project and all the necessary information about the product, if any user has any problem or query about any module or functionality regarding the project, one can refer it to solve the problem and see how to operate the application. This report is the complete documentation of our project. It gives complete details about the project, its functionality, users, software used, hardware requirement, environment and so on.

2.7 Assumptions and Dependencies:

❖ Assumptions:

- A proper computer device with minimum requirements.
- Users with a Basic Knowledge to operate software.
- Users know English language.

❖ Dependencies:

- A constant update on stocks needs to be entered.

3. User Interface:

3.1 Specifications:

Project Name	: Bike Showroom Management System (BSMS)
Database	: MySQL
User Interface Design	: HTML, JAVA
Web Browser	: Mozilla, Google Chrome, IE8, OPERA

In this project, we use Java and MySQL database.

3.2 Admin Module

Admin is the super user of the Application who can manage everything on the Application. Admin can log in through the login page

1. **Dashboard:** In this section, admin can see all detail in brief like the total Bike company, Total Enquiry, and Total Bike Listed
2. **Company Info:** In this section, admin can manage car company information(add/update).
3. **Bike info:** In this section, admin can manage car information(add/update).
4. **Booking Info:** In this section, admin can view and maintain the Booking of bike.
5. **Insurance Info:** In this section, admin search the insurance information and compare various insurance schemes.
6. **Customer info:** In this section, admin search the information about customer, such as which customer book which bike, deposited amount etc.

4. System Features

4.1 Description

This system will help showroom management to manage all activities which are most important in bike showroom like managing details of bike, customer, and payment and insurance. This system also help employee of showroom to complete their tasks very quickly and in efficient way. This software carry aim is to control all the primary activities and increase performance of employee .And also to provide good service to their customers. This software helps employee to manage booking, billing and insurance done in between showroom and customer.

4.2 Functional Requirements

4.2.1 Showroom Information

- This system will able to see all employee details, customer details, billing details and bike details.
- This system will able to see the activities done by employee in related with showroom.

4.2.2 Bike Information

- This system allows add new bike details.
- This system can able to update bike details which are present in showroom.
- This system has all bike information which is available in showroom.

4.2.3 Employee Information

- This system will allow the employee to login and logout.
- This system will allow employee to edit the details if there is any change observed.
- This system can able to delete any employee details.

4.2.4 Customer Information

- This system will allow add new customer details.
- It also keeps that information for future references.
- This system can able to delete any customer details.

4.2.5 Booking

- This system will allow employee to start the booking of any bike selected by customer.
- This system will show the details of booking done by customer.
- This system can delete any booking information if any customer wants to cancel his booking.

4.2.6 Billing

- This system will allow employee to complete the billing process.
- First billing method is cash payment and another by EMI payment.
- This system will able to see billing details of any customer.

4.2.7 Insurance

- This system will allow employee to add new insurance details of bike which will buy from same showroom.
- This system will allow employee to see insurance details for renew that policy.
- This system will able to delete any insurance detail.

5. Performance Requirements

5.1 System Specification

System specification is key information for programming and implementing the project. The specification should delineate the user requirements. They must reflect the actual application to be handled by the system & include system Objectives, Flowcharts, Input/output requirements, file structure & cost. The specification must also describe each aspect of the system clearly, consistently and completely.

5.2 Hardware Requirements

Processor	i3
Clock Speed	2 GHZ
Hard Disk Capacity	40GB
ROM	52 MB ROM
RAM	32 MB RAM
Ports	COM & LPT
Virtual Memory	64 Bit

5.3 Software Requirements

Browsers	Chrome & Microsoft Edge
Applications	draw.io
Operating System	Windows 10
Languages	Java, MYSQL

5.4 Software Quality Attributes

- 1) **Availability** - The system should run on a variety of operating systems that support the Java language. The system should run on a variety of hardware.
- 2) **Accessibility** - The software will be accessible to admin and employee.
- 3) **Compatibility** - The software will be compatible with multiple platforms.
- 4) **Durability** - The software will be tested for working with multiple users.
- 5) **Effectiveness** - The software will be made to handle operations effectively.
- 6) **Maintainability** - The system should be easy to maintain. There should be a clear separation between the interface and the business logic code. There should be a clear separation between the data access objects that map the database and the business logic code.

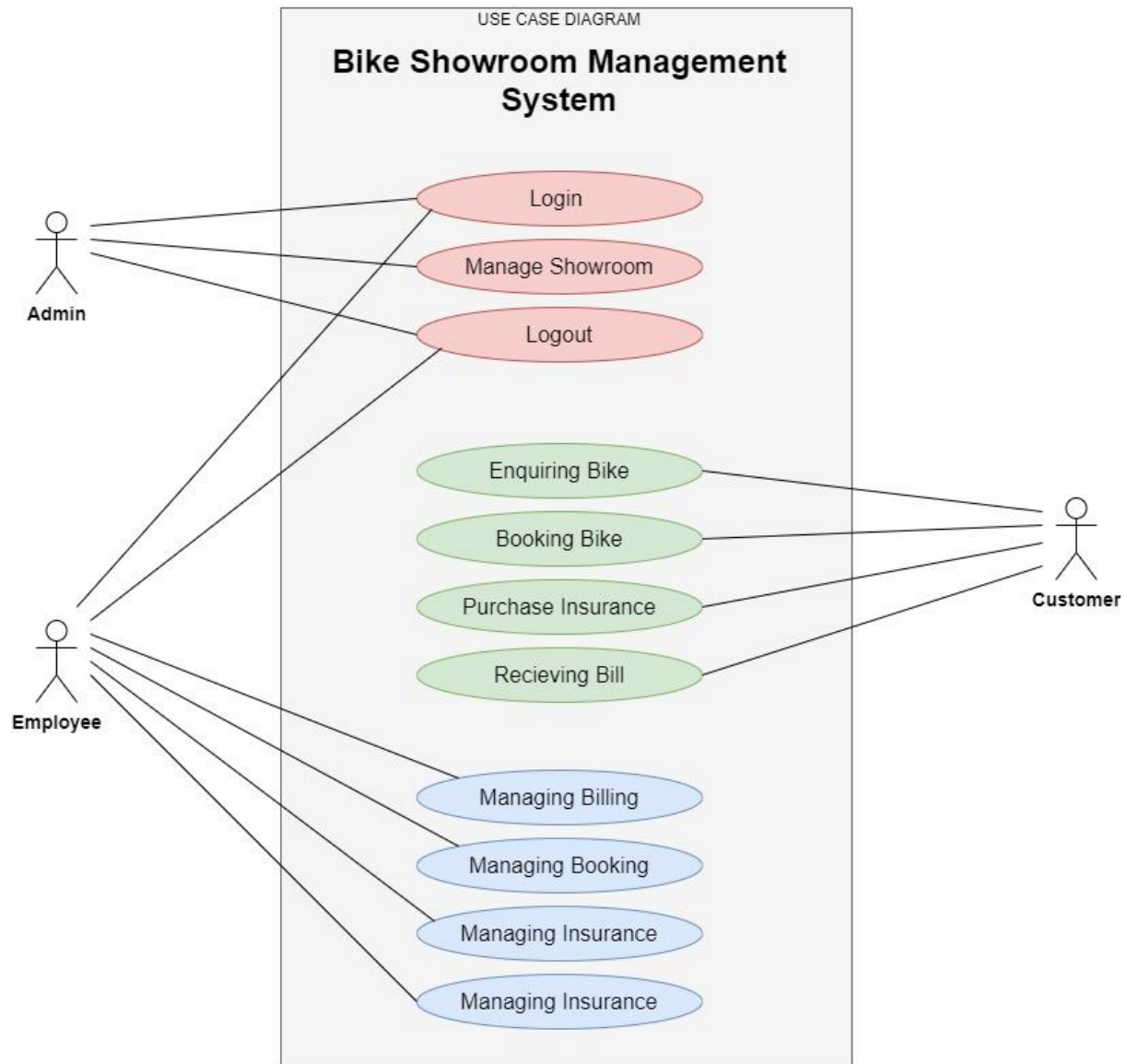
6. Other Requirements

6.1 Appendix A: Glossary

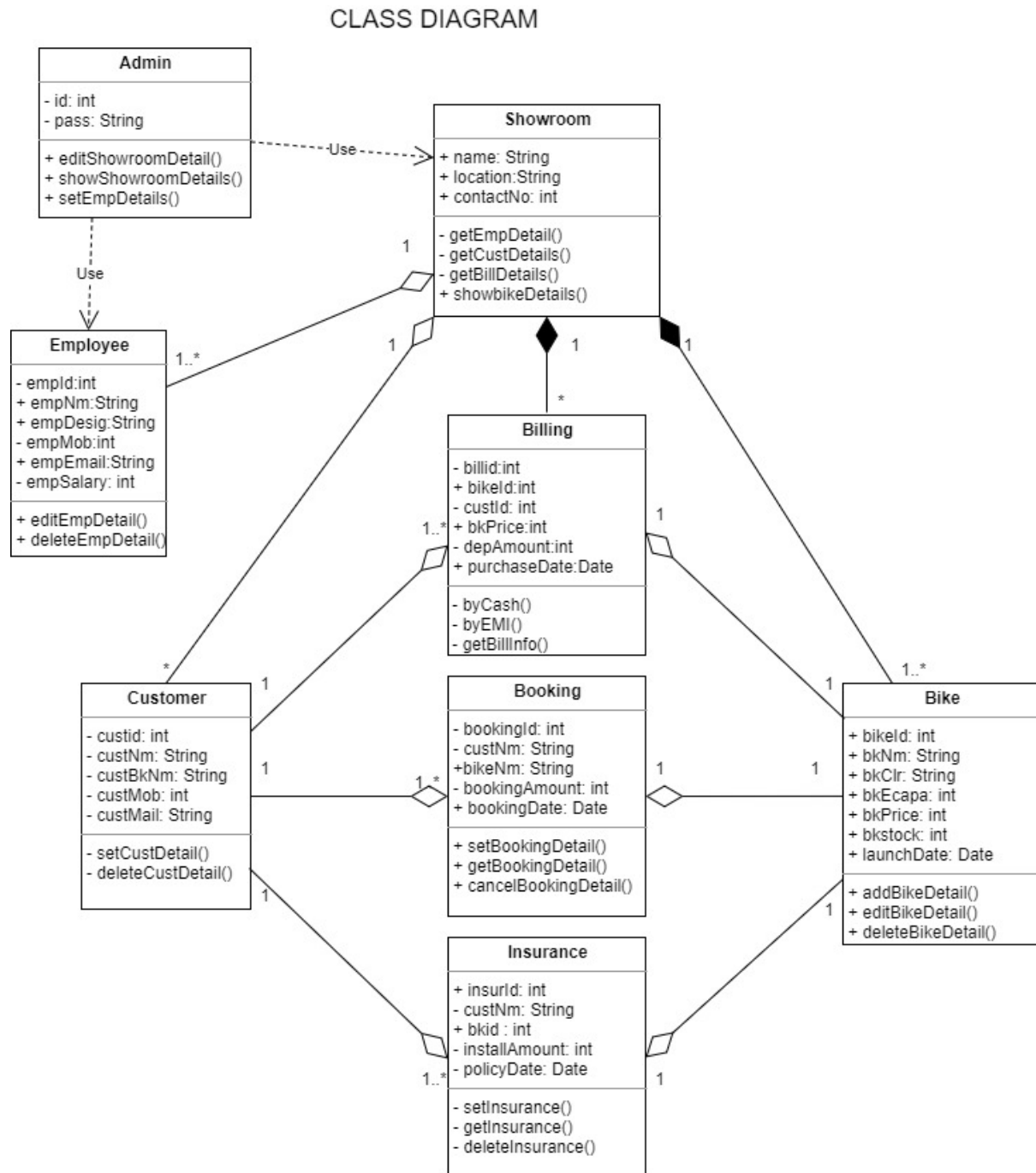
- **SRS:** Software Requirement Specification
- **SQL:** Structured Query Language
- **ROM:** Read Only Memory
- **RAM:** Random Access Memory
- **GB:** Giga Bytes

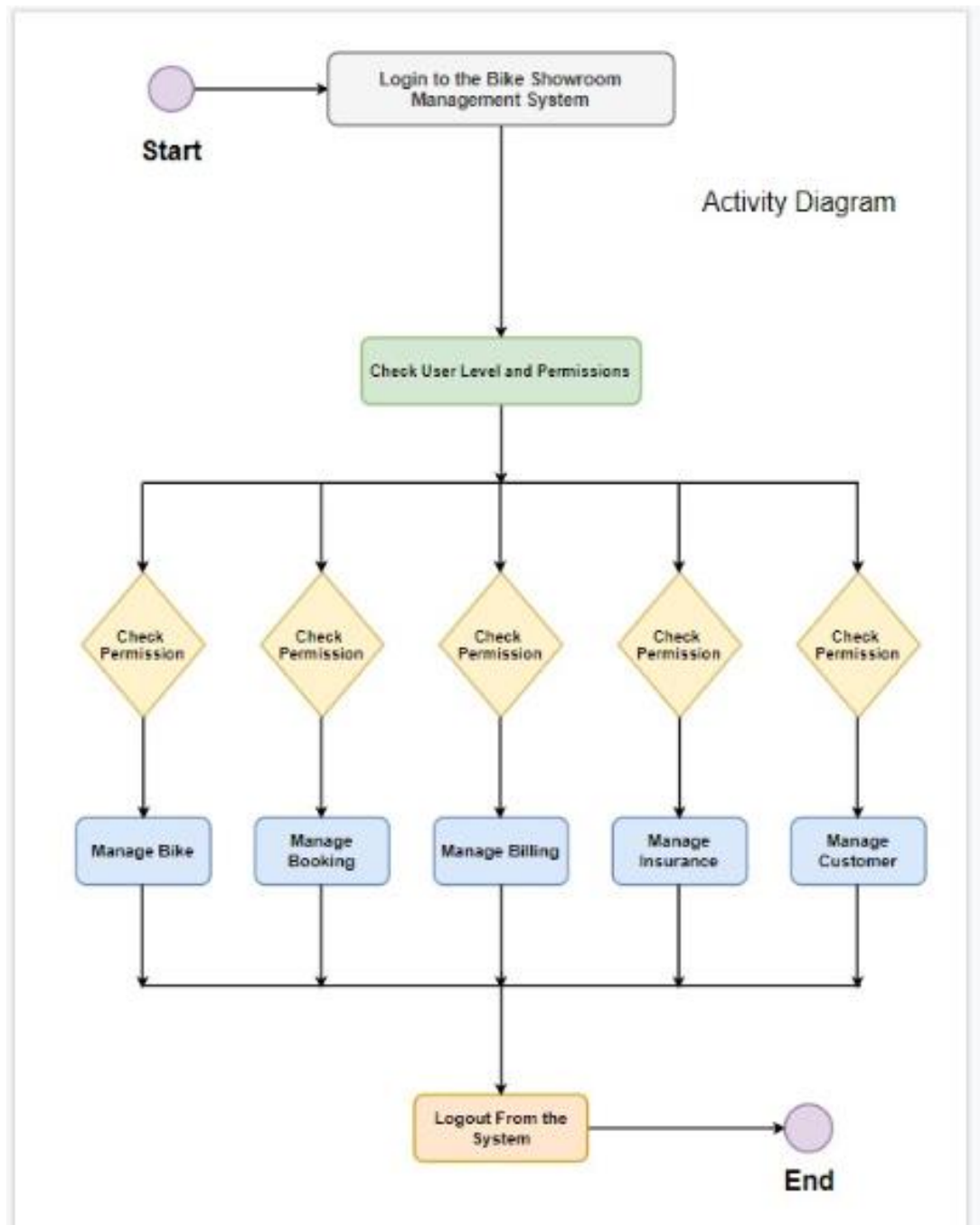
Appendix B: Analysis Models

6.2.1 Use Case Diagram:



6.2.2 Class Diagram:



6.2.3 Activity Diagram:

6.2.4 Sequence Diagram: