

Project Report

VEHICLE MANAGEMENT SYSTEM USING SALES FORCE

1. INTRODUCTION

1.1 Overview

A Vehicle Management system is a software system or platform that serves to manage commercial fleets of vehicles such as cars, vans or trucks or even heavy equipment to ensure they are utilized safely, efficiently and professionally ,while making sure they are well maintained and high performing

The main objective of the Project on Vehicle Management system is to manage the details of vehicle, Driver, Insurance, maintenance, Fuel. It manages all the information about Vehicle, Vehicle type, Fuel. The project is totally built at administrative end 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 Vehicle, Driver, vehicle type.

1.2 Purpose

The purpose of Vehicle Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Depending on the type of vehicle management system

Improve fleet safety and working conditions

Improve the behavior and performance of drivers and beat unsafe driving

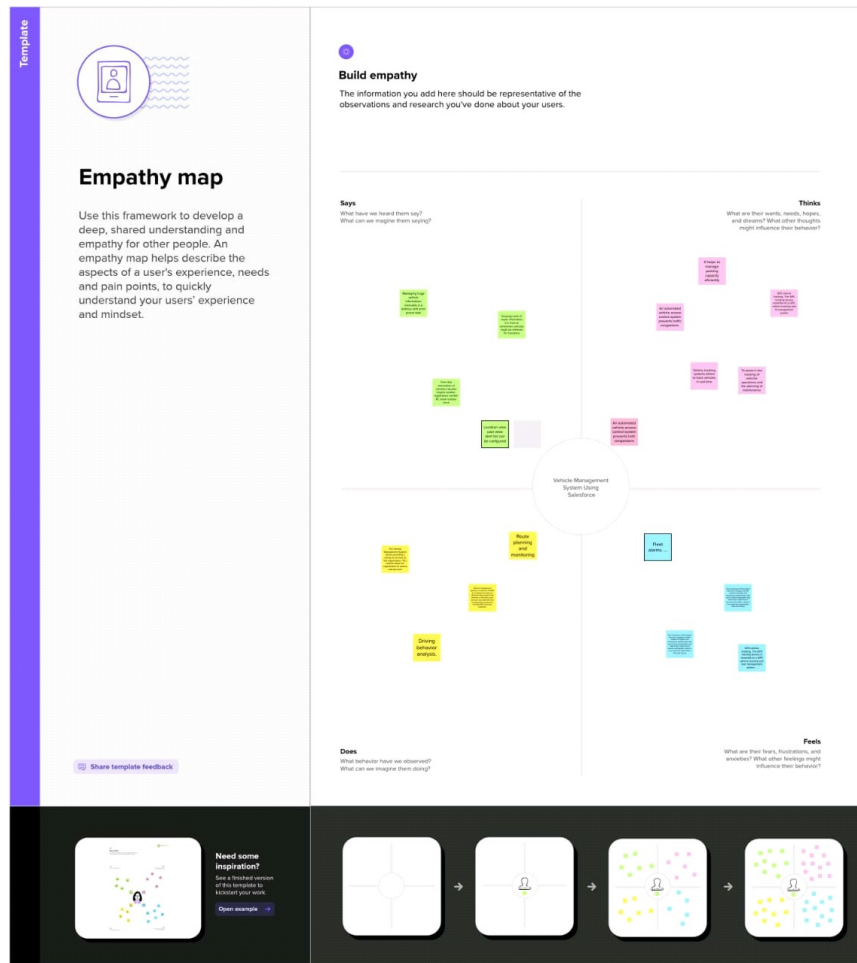
Schedule shifts and work hours

Manage fuel efficiency

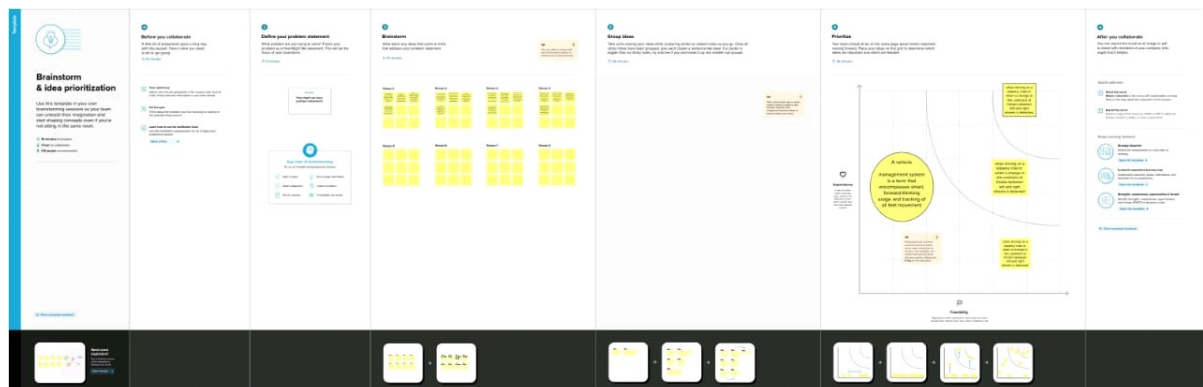
Track vehicles, assets or professional equipment

2 .PROBLEM DEFINITION & DESIGN THINKING

2.1 Empathy map



2.2 Ideation & Brainstorming Map



3. RESULT

3.1 Data Model:

<u>Object name</u>	<u>Fields in the Object</u>	
<u>Object1</u>	<u>Field label</u>	<u>Data type</u>
	Customer Name	Text
	Customer Mobile No	Number
	Vehicle Type	Picklist
	2 WHEELERS	Picklist
	4 WHEELERS	Picklist
	Vehicle Name	Text
	Vehicle No	Text
	Classic no	Text
	Colour	Text
	Body Type	Text
	Vehicle Includes	Multi Picklist
	Condition	Picklist
	Mileage	Text
	Seats	Number
	Start Date	Date/Time
	End Date	Date/Time
	Opportunity	Lookup(opportunity)
<u>Object 2</u>	<u>Field label</u>	<u>Data type</u>
	Driver Name	Text
	Licence No	Text
	Mobile No	Number
	Fair Per Hour	Text
	Vehicle	Lookup(Vehicle)

3.2 Activity & Screenshot:

Milestone 1: Creation salesforce Org:

Activity 1:

Creating Developer Account

The screenshot shows the Salesforce Developer Edition Sign-up page in a web browser. The page has a blue background with white text and icons. On the left, there's a section titled "Build enterprise-quality apps fast to bring your ideas to life" with a list of bullet points: "Build apps fast with drag and drop tools", "Customize your data model with clicks", "Go further with Apex code", "Integrate with anything using powerful APIs", "Stay protected with enterprise-grade security", and "Customize UI with clicks or any leading-edge web framework". On the right, there's a sign-up form titled "Sign up for your Salesforce Developer Edition". The form includes fields for First Name, Last Name, Email, Role (Developer), Company (Thiruvalluvar Government Arts College), Country/Region (India), and Phone Number. There's a checkbox for "I agree to the Main Service Agreement - Developer Services and Salesforce Program Agreement". Below the form, there's a "Sign me Up" button and a link for "Already have a Salesforce Developer Environment?".

Account Activation:

The screenshot shows a Gmail inbox with a single email from "developer@salesforce.com". The email subject is "Thanks for signing up with Salesforce!". The email body contains a "Verify Account" button and a URL: "https://hiruvalluvargovernment-5d-dev-ed.develop.my.salesforce.com". Below the URL, it says "Username: ssivouma@gsac.com" and "Again, welcome to Salesforce!". At the bottom of the email, there's a copyright notice: "© Copyright 2000-2018 salesforce.com, Inc. All rights reserved. Various trademarks held by their respective owners. Salesforce.com, Inc. The Landsmark at One Market, Suite 300, San Francisco, CA, 94105, United States".

Milestone-2: Object

Activity 1:

To Create an object:

The screenshot shows the Salesforce Object Manager interface for the 'Vehicles Object'. The 'Fields & Relationships' tab is selected, displaying a table of fields. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed include 2WHEELERS, 4WHEELERS, Body Type, Chassis, Colour, Condition, Created By, Customer Mobile No, Customer Name, End Date, Last Modified By, Mileage, Opportunity, Owner, Sex, Start Date, Vehicle Includes, Vehicle Name, Vehicle No, Vehicle Type, and Vehicle Object Name.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
2WHEELERS	2WHEELERS_c	Picklist	Vehicle Type	
4WHEELERS	4WHEELERS_c	Picklist	Vehicle Type	
Body Type	Body_Type_c	Text(255)		
Chassis: No	Chassis_No_c	Text(255)		
Colour	Colour_c	Text(255)		
Condition	Condition_c	Picklist		
Created By	CreatedBy	Lookup(User)		
Customer Mobile No	Customer Mobile No_c	Number(18, 0)		
Customer Name	Customer Name_c	Text(255)		
End Date	End Date_c	Date/Time		
Last Modified By	LastModifiedBy	Lookup(User)		
Mileage	Mileage_c	Text(255)		
Opportunity	Opportunity_c	Lookup(Opportunity)		
Owner	Owner	Lookup(User Group)		
Sex	Sex_c	Number(18, 0)		
Start Date	Start Date_c	Date/Time		
Vehicle Includes	Vehicle Includes_c	Picklist (Multi Select)		
Vehicle Name	Vehicle Name_c	Text(255)		
Vehicle No	Vehicle No_c	Text(255)		
Vehicle Type	Vehicle Type_c	Picklist		
Vehicle Object Name	Name	Text(80)		

The screenshot shows the 'Custom Object Definition Edit' page for the 'Vehicles Object'. The page includes sections for Custom Object Information, Object Name, Record Name Label and Format, and Object Classification. The 'Object Name' field is set to 'Vehicles Object'. The 'Record Name Label and Format' section shows the record name as 'Vehicles Object Name' and the format as 'Name'. The 'Object Classification' section shows the object as a 'Custom Object'.

Custom Object Information

The object is a custom object. It is used to store information about vehicles and their details. It is used to track the status of vehicles and their location. It is used to manage the fleet of vehicles.

Object Name

Object Name: Vehicles Object

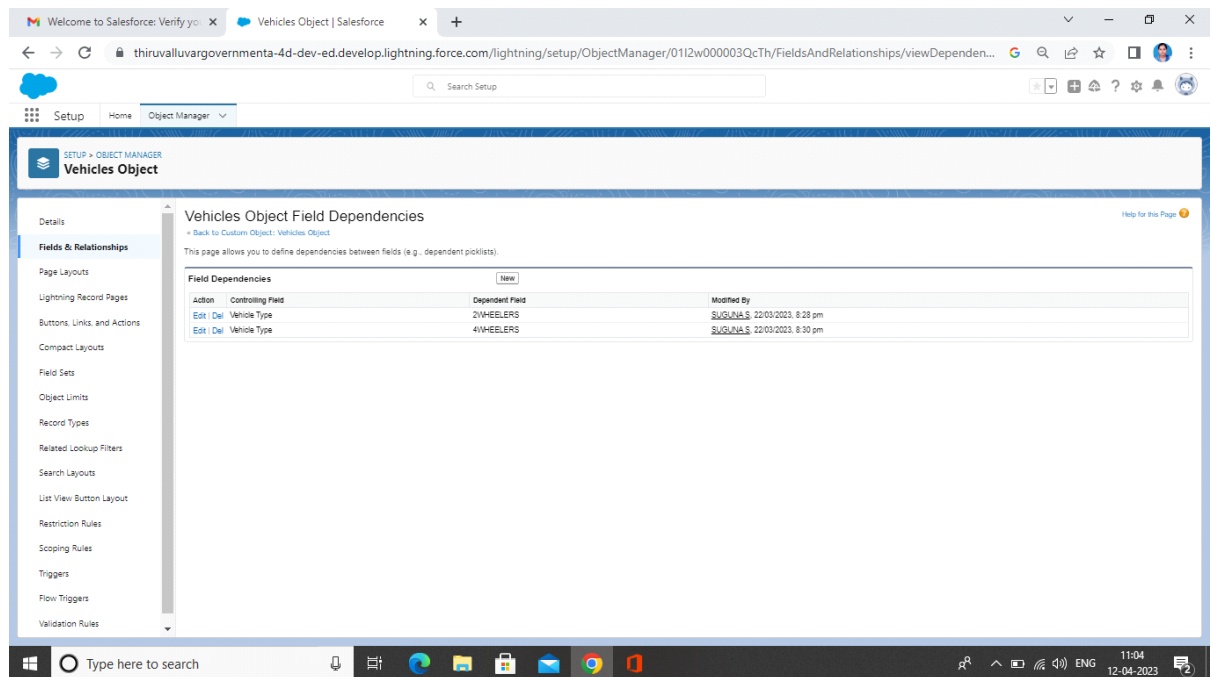
Record Name Label and Format

Record Name: Vehicles Object Name

Format: Name

Object Classification

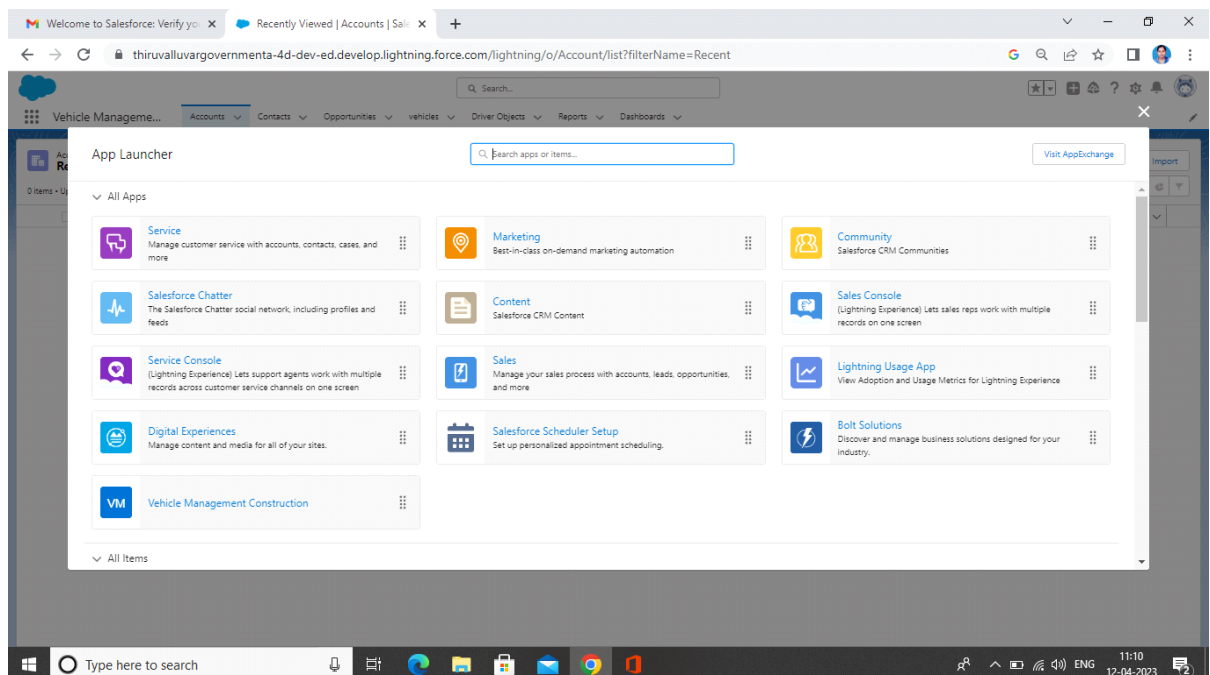
Object Classification: Custom Object



Milestone-4: Lightning App

Activity-1:

Create the Vehicle Management Construction app



Setup Roles:

Welcome to Salesforce: Verify you are logged in as [thiruvalluvargovernmenta-4d-dev-ed.develop.lightning.force.com/lightning/setup/ContractContactRoles/home](#)

Search Setup

Setup Home Object Manager

roles

Users

Roles

Feature Settings

Sales

Contract Roles on Contracts

Contract Roles on Opportunities

Service

Case Teams

Case Team Roles

Contract Roles on Cases

Didn't find what you're looking for? Try using Global Search.

SETUP

Contact Roles on Contracts

Below is the master list of picklist values for the Contract Contact Role field.

Click Edit to change the name of the value or make it the default value. Click New to add a value to the picklist. Click Reorder to change the sequence of values in the list.

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Del Deactivate	Business User	Business User	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Decision Maker	Decision Maker	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Economic Buyer	Economic Buyer	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Economic Decision Maker	Economic Decision Maker	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Evaluator	Evaluator	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Executive Sponsor	Executive Sponsor	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Influencer	Influencer	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Technical Buyer	Technical Buyer	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm
Edit Del Deactivate	Other	Other	<input type="checkbox"/>	Assigned dynamically	SUGUNA S 14/03/2023, 5:21 pm

Inactive Values

No Inactive Values values defined.

Milestone-6: Users

Activity 1:

Creating a users:

Welcome to Salesforce: Verify you are logged in as [thiruvalluvargovernmenta-4d-dev-ed.develop.lightning.force.com/lightning/setup/ManageUsers/home](#)

Search Setup

Setup Home Object Manager

user

Users

Permission Set Groups

Permission Sets

Profiles

Public Groups

Queues

Roles

User Management Settings

Users

Feature Settings

Data.com

Prospector Users

User Interface

Action Link Templates

Actions & Recommendations

App Menu

SETUP

Users

All Users

On this page you can create, view, and manage users.

In addition, download SalesforceA to view and edit user details, reset passwords, and perform other administrative tasks from your mobile devices: [iOS](#) | [Android](#)

View: [All Users](#) | [Edit](#) | [Create New View](#)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

Action	Full Name	Alias	Username	Role	Active	Profile
Edit	Chatter Expert	Chatter	chatty00g2v00000rkjdjeal@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
Edit	S. SUGUNA	SS	ssuguna@jpac.com		<input checked="" type="checkbox"/>	System Administrator
Edit	S. SUGUNA	ss	ssugunachytm@gmail.com	Vehicle Manager	<input checked="" type="checkbox"/>	Vehicle Manager
Edit	S. SUGUNA	ss	ssuguna@gmail.com	Operator 1	<input checked="" type="checkbox"/>	Standard Platform User
Edit	S. SUGUNA	ss	ssugunatm@gmail.com	Operator 2	<input checked="" type="checkbox"/>	Standard Platform User
Edit	User Integration	integ	integration@00d2v00000rkjdjeal.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
Edit	User Security	sec	insightsecurity@00d2v00000rkjdjeal.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

Milestone-7: Reports

Activity 1:

Reports And Dashboards.

Vehicle Managemen...

Accounts

Contacts

Opportunities

vehicles

Driver Objects

Reports

Dashboards

Reports

Recent

2 items

Search recent reports...

New Report

New Folder

Settings

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Vehicle and Customer Details	Vehicle and Customer Detail	Private Reports	SUGUNA S	28/3/2023, 12:25 pm	
Created by Me	Sample Flow Report: Screen Flows	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	14/3/2023, 5:21 pm	
Private Reports						
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

Activity 2: Dashboard:

Dashboards | Salesforce

Vehicle Managemen...

Accounts

Contacts

Opportunities

vehicles

Driver Objects

Reports

Dashboards

Dashboards

Recent

1 item

Search recent dashboards...

New Dashboard

New Folder

Settings

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Vehicle and Customer Details	Vehicle and Customer Details	Private Dashboards	SUGUNA S	28/3/2023, 12:29 pm	
Created by Me						
Private Dashboards						
All Dashboards						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

4. Trailhead Profile Public URL:

Team Leader
Team Member 1
Team Member 2
Team Member 3

- <https://trailblazer.me/id/sugus5>
- <https://trailblazer.me/id/vinis62>
- <https://trailblazer.me/id/subav13>
- <https://trailblazer.me/id/anand1341>

5. ADVANTAGES & DISADVANTAGES

Following are the benefits or advantages of Vehicle Management:

- It improves productivity by saving delivery time due to use of advance route information, traffic alerts etc.
- It helps to reduce cost of fuel.
- It ensures safety of vehicles, drivers and goods.
- It provides real time location of fleets and serves the customers in better way.
- It helps in saving of maintenance costs by maintaining vehicle effectively.
- It reduces risk of theft and road accident chances. Hence it decreases insurance cost.
- Easy to manage and cost-effective.
- Because of that there is no towing problems
- No human employee is required

Following are the drawbacks or disadvantages of Vehicle Management...

Active tracking based fleet management requires monthly subscription charges and data usage charges.

➔It is difficult to manage and maintain fleet management system due to use of multiple technologies such as cloud servers, cellular wireless systems, fleet management software etc.

➔It requires skilled resources to maintain such system. This increases maintenance costs.

➔GPS device used in fleet management is power hungry which drains battery faster.

➔GPS signal does not pierce through the walls, solid structures, under water or dense trees.

6. APPLICATION

The Vehicle Management System (VMS) is an application for the automotive industry. It supports, in the area of Sales & Services, the business processes that you require as vehicle importer when dealing with your original equipment manufacturers (OEMs) and your dealers in new and used vehicle sales.

7. CONCLUSION

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points...

- A description of the background and context of the project and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the problem on which we are working in the project.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail, including screen layouts. We designed user interface and security issues related to system.
- Finally the system is implemented and tested according

8. FUTURE SCOPE

In the modern age, many people have vehicles. Vehicle is now a basic need. Every place is under the process of urbanization. There are many corporate offices and shopping centers etc. There are many recreational place where people used to go for refreshment. So, all these places need parking space where people can park their vehicles safely and easily. Every parking area needs a system that who wants to park their vehicle into the any organization's premises. Records the detail of vehicles to give the facility. These systems might be computerized or non-computerized. With the help of computerized system we can deliver a good service to customer

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding

- We can add printer in future.
- We can give more advance software for Vehicle Management System including more facilities
- We will host the platform on online servers to make it accessible worldwide

- Integrate multiple load balancers to distribute the loads of the system
- Create the master and slave database structure to reduce the overload of the database queries
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of Vehicle and Driver. Also, as it can be seen that now-a-days the players are versatile, Le, so there is a scope for introducing a method to maintain the Vehicle Management System. Enhancements can be done to maintain all the Vehicle, Driver, Insurance, maintenance, Fuel.

We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them. In the last we would like to thanks all the persons involved in the development of the system directly or indirectly. We hope that the project will serve its purpose for which it is develop there by underlining success of process.