

## INTRODUCTION

### 1.1 Overview

*Vehicle Management System is proposed with the intention of upgrading the current stand-alone system to a web based or online system.*

*Proposed to smoothen the management process of the vehicle in order to handle the registration and scrapping it. This stand alone concept to web based system, i it helps staffs to store and manage data efficiently and in more organized manner. -System also accept information about the accident report, So that none of the accident goes unattained.*

### 1.2 Purpose

*Salesforce offers a Vehicle Management solution that allows companies to track and manage their fleet of vehicles within the Salesforce platform. This solution includes features such as vehicle tracking, maintenance scheduling, and fuel consumption tracking. The solution can be integrated with other Salesforce modules such as Sales, Service, and Marketing to provide a comprehensive view of vehicle usage and performance. Additionally, it can also be integrated with GPS tracking systems to provide real-time location and status updates for vehicles*

## Problem Definition & Design Thinking

### 1.3 Empathy Map

Template



#### Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

[Share template feedback](#)

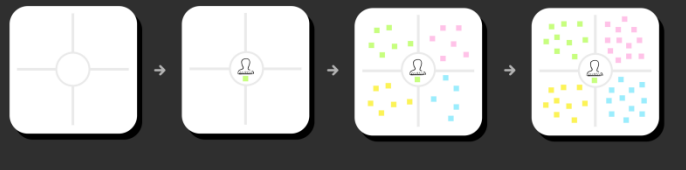
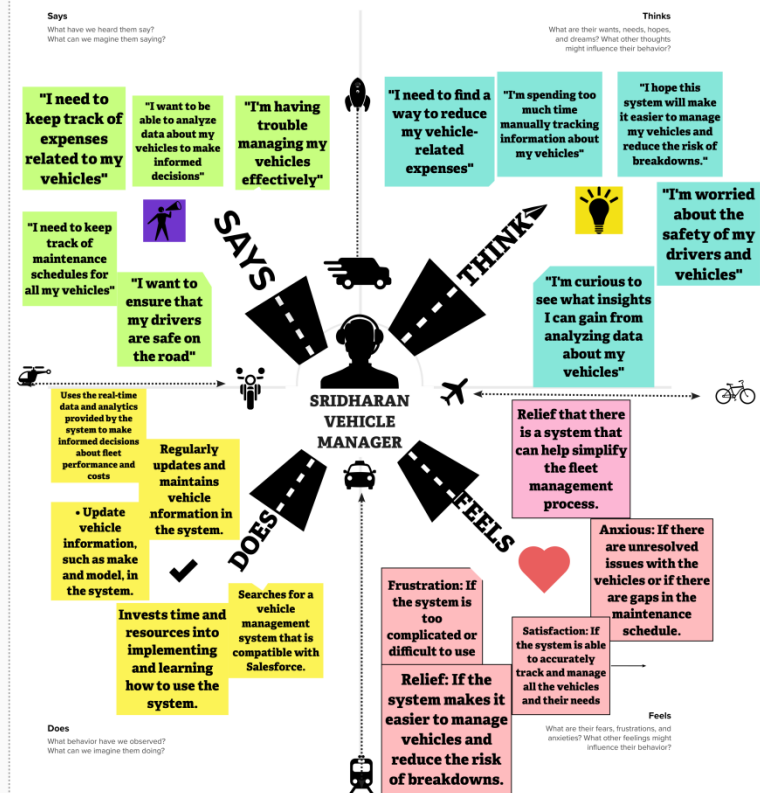


**Need some inspiration?**  
See a finished version of this template to kickstart your work.  
[Open example](#)



#### Build empathy

The information you add here should be representative of the observations and research you've done about your users.





2

## **RESULT**

### **2.1 Data Model**

**Fields in Vehicles objects follow below data types:**

<b><i>S NO</i></b>	<b><i>Field Names</i></b>	<b><i>Data Types</i></b>
<b><i>1.</i></b>	<b><i>Customer Name</i></b>	<b><i>Text</i></b>
<b><i>2.</i></b>	<b><i>Customer Mobile No</i></b>	<b><i>Number</i></b>
<b><i>3.</i></b>	<b><i>Vehicle Type</i></b> <b><i>i)2 wheeler</i></b> <b><i>ii)4 wheeler</i></b>	<b><i>Picklist</i></b>
<b><i>4.</i></b>	<b><i>2WHEELERS</i></b> <b><i>i) HERO</i></b> <b><i>ii)HONDA</i></b> <b><i>iii)BAJAJ</i></b> <b><i>iv)ROYAL ENFIELD</i></b> <b><i>v)TVS vi)KINETIC</i></b> <b><i>vii)OLA</i></b> <b><i>viii)JAWA</i></b> <b><i>ix)SD</i></b> <b><i>x)BATTERY</i></b>	<b><i>Picklist</i></b>
<b><i>5.</i></b>	<b><i>4WHEELERS</i></b> <b><i>i)RENAULT</i></b> <b><i>ii)SKODA</i></b> <b><i>iii) HONDA</i></b> <b><i>iv)HYUNDAI</i></b> <b><i>v)SUZUK</i></b> <b><i>vi)MAHINDRA</i></b> <b><i>vii)VOLKSWAGEN</i></b> <b><i>viii)BENZ</i></b> <b><i>ix)AUDI</i></b> <b><i>x)VOLVO</i></b>	<b><i>Picklist</i></b>

<b>6.</b>	<b>Vehicle Name</b>	<b>Text</b>
<b>7.</b>	<b>Vehicle No</b>	<b>Text</b>
<b>8.</b>	<b>Chassis No</b>	<b>Text</b>
<b>9.</b>	<b>Colour</b>	<b>Text</b>
<b>10.</b>	<b>Body Type</b>	<b>Text</b>
<b>11.</b>	<b>Vehicle Includes</b> <b>i)Fire Extenuation</b> <b>ii)First Aid Kit</b> <b>iii)Multi Charger kit</b> <b>iv)Stepney</b> <b>v)Stereo</b> <b>vi)Tool Kit</b> <b>vii)Tracking Device</b> <b>viii)Tyre Jack</b>	<b>Multi Picklist</b>
<b>12.</b>	<b>Condition</b> <b>i)Good</b> <b>ii)Medium</b> <b>iii)Least</b>	<b>Picklist</b>
<b>13.</b>	<b>Mileage</b>	<b>Text</b>
<b>14.</b>	<b>Seats</b>	<b>Number</b>
<b>15.</b>	<b>Start Date</b>	<b>Date/Time</b>
<b>16.</b>	<b>End Date</b>	<b>Date/Time</b>

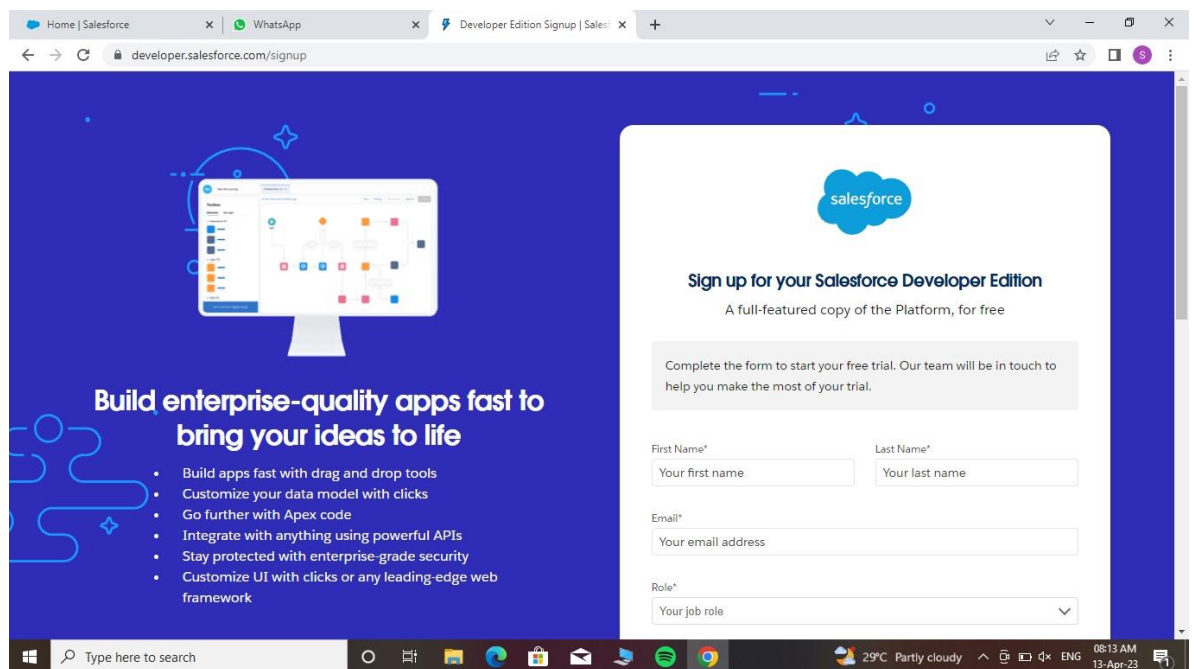
<b>17.</b>	<b>Opportunity</b>	<b>Lookup(opportunities)</b>
------------	--------------------	------------------------------

## fields in Driver objects follow below data types:

<b>S No</b>	<b>Field</b>	<b>Data Type</b>
<b>1.</b>	<b>Driver Name</b>	<b>Text</b>
<b>2.</b>	<b>Licence No</b>	<b>Text</b>
<b>3.</b>	<b>Mobile No</b>	<b>Number</b>
<b>4.</b>	<b>Fair Per Hour</b>	<b>Text</b>
<b>5.</b>	<b>Vehicle</b>	<b>Lookup(Vehicle)</b>

## 2.2 Activity & Screenshot

### **Milestone 1:Creation salesforce org:**



Home | Salesforce x WhatsApp x Developer Edition Signup | Sales x

← → ↻ 🔒 developer.salesforce.com/signup

**Build enterprise-quality apps fast to bring your ideas to life**

- 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
- Customize UI with clicks or any leading-edge web framework

**Sign up for your Salesforce Developer Edition**  
A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name\*  
Your first name

Last Name\*  
Your last name

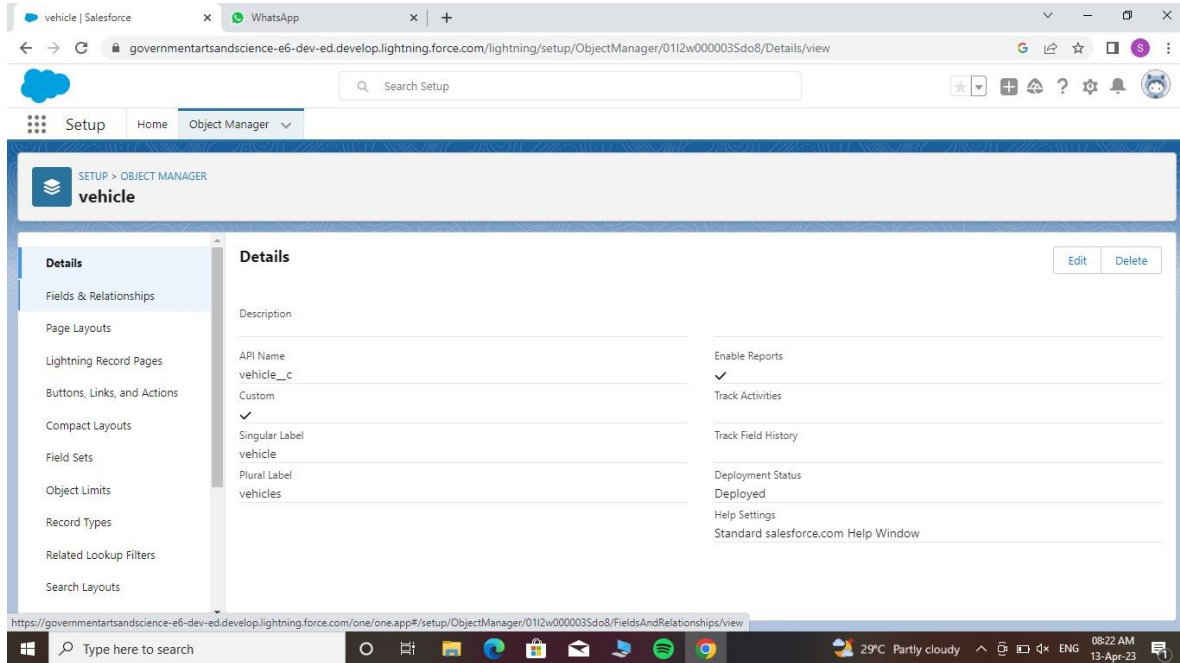
Email\*  
Your email address

Role\*  
Your job role

29°C. Partly cloudy 08:13 AM 13-Apr-23

## Milestone 2:Object:

### Vehicle

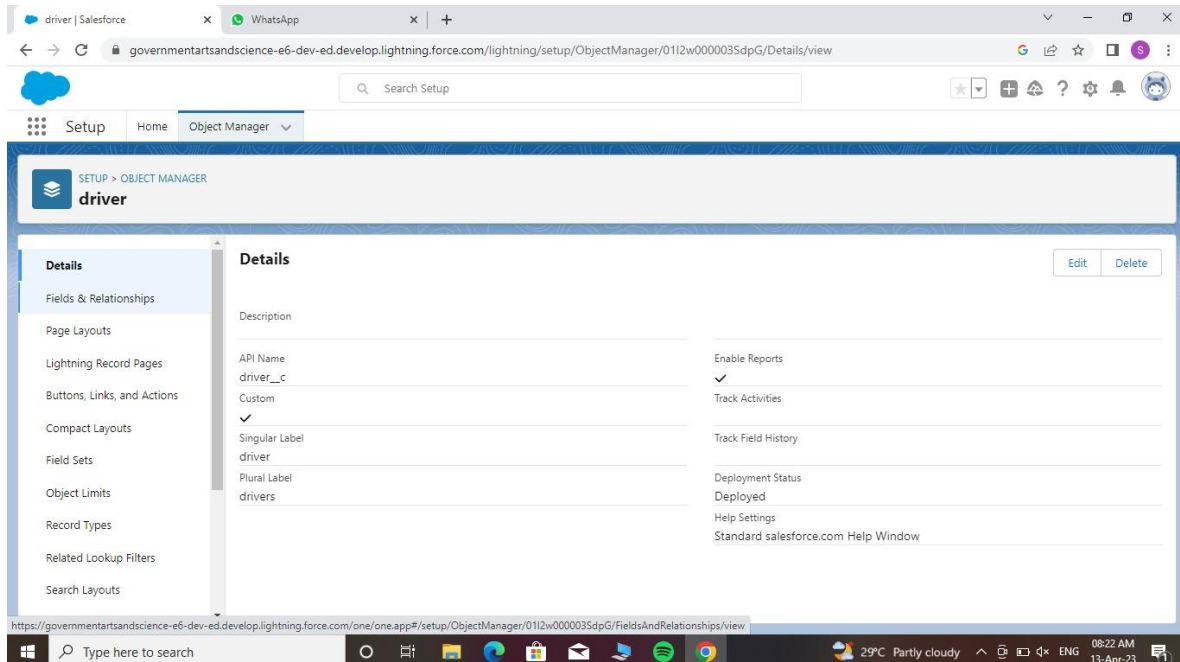


The screenshot shows the Salesforce Object Manager interface for the 'vehicle' object. The left sidebar contains a navigation menu with the following items: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main content area displays the 'Details' tab for the 'vehicle' object. The details include:

- Description:** (Empty text field)
- API Name:** vehicle\_\_c
- Custom:** ☒
- Singular Label:** vehicle
- Plural Label:** vehicles
- Enable Reports:** ☒
- Track Activities:** ☒
- Track Field History:** ☐
- Deployment Status:** Deployed
- Help Settings:** Standard salesforce.com Help Window

At the top right of the details section, there are 'Edit' and 'Delete' buttons. The browser address bar shows the URL: <https://governmentartsandscience-e6-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003Sdo8/Details/view>. The Windows taskbar at the bottom shows the time as 08:22 AM on 13-Apr-23.

### Driver



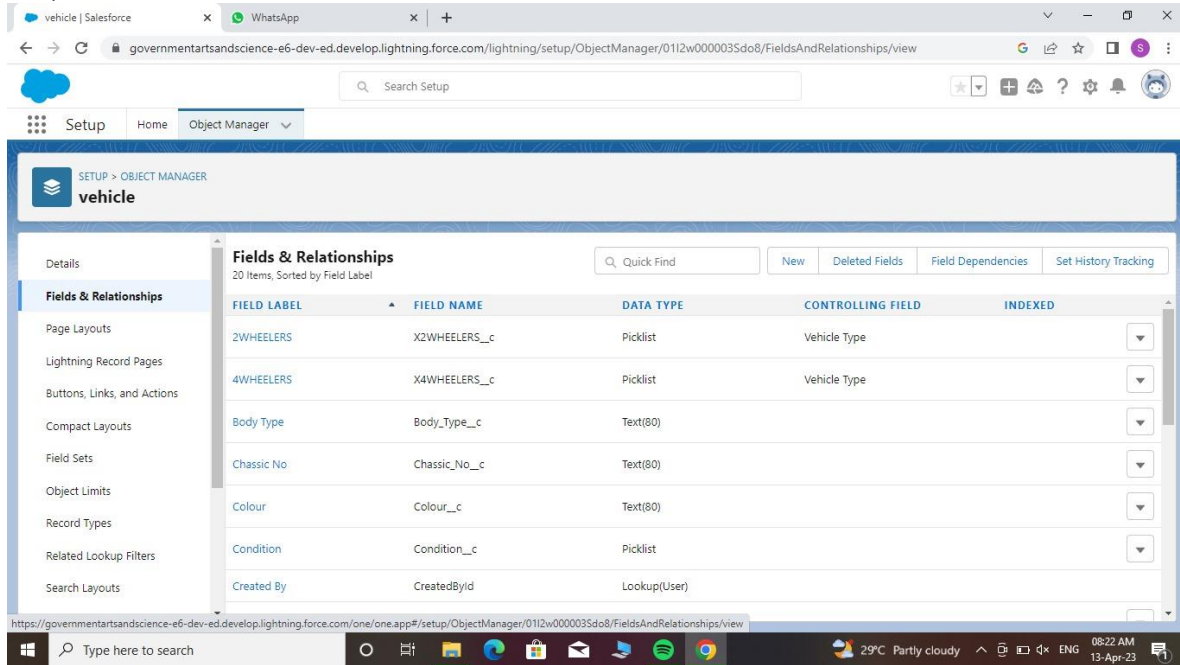
The screenshot shows the Salesforce Object Manager interface for the 'driver' object. The left sidebar contains a navigation menu with the following items: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main content area displays the 'Details' tab for the 'driver' object. The details include:

- Description:** (Empty text field)
- API Name:** driver\_\_c
- Custom:** ☒
- Singular Label:** driver
- Plural Label:** drivers
- Enable Reports:** ☒
- Track Activities:** ☒
- Track Field History:** ☐
- Deployment Status:** Deployed
- Help Settings:** Standard salesforce.com Help Window

At the top right of the details section, there are 'Edit' and 'Delete' buttons. The browser address bar shows the URL: <https://governmentartsandscience-e6-dev-ed.develop.lightning.force.com/one/app#/setup/ObjectManager/0112w000003SdpG/FieldsAndRelationships/view>. The Windows taskbar at the bottom shows the time as 08:22 AM on 13-Apr-23.

## Milestone 3: Fields and Relationship:

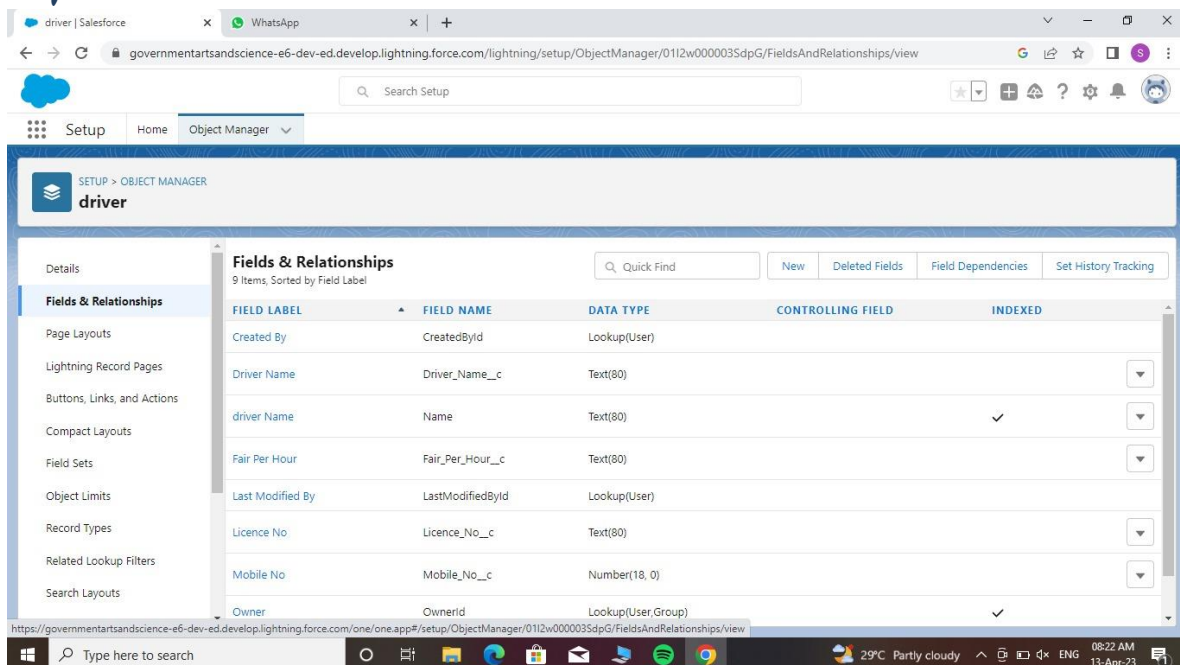
### Object 1: Vehicle



The screenshot shows the Salesforce Object Manager interface for the 'vehicle' object. The 'Fields & Relationships' tab is active, displaying a list of 20 fields. The fields are sorted by Field Label. The table below represents the data shown in the screenshot:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
2WHEELERS	X2WHEELERS__c	Picklist	Vehicle Type	
4WHEELERS	X4WHEELERS__c	Picklist	Vehicle Type	
Body Type	Body_Type__c	Text(80)		
Chassic No	Chassic_No__c	Text(80)		
Colour	Colour__c	Text(80)		
Condition	Condition__c	Picklist		
Created By	CreatedById	Lookup(User)		

### Object 2: Driver

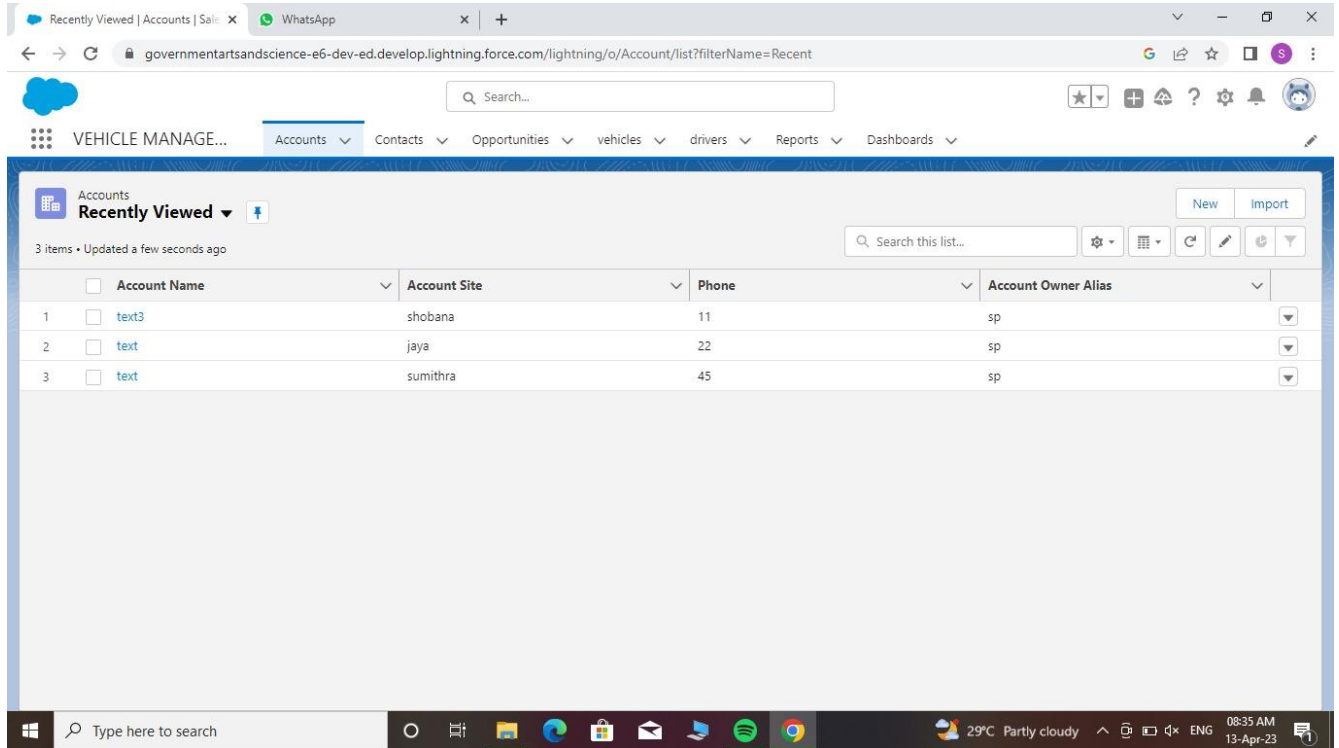


The screenshot shows the Salesforce Object Manager interface for the 'driver' object. The 'Fields & Relationships' tab is active, displaying a list of 9 fields. The fields are sorted by Field Label. The table below represents the data shown in the screenshot:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Driver Name	Driver_Name__c	Text(80)		
driver Name	Name	Text(80)		✓
Fair Per Hour	Fair_Per_Hour__c	Text(80)		
Last Modified By	LastModifiedById	Lookup(User)		
Licence No	Licence_No__c	Text(80)		
Mobile No	Mobile_No__c	Number(18, 0)		
Owner	OwnerId	Lookup(User, Group)		✓



## Milestone 4:Lighting App:

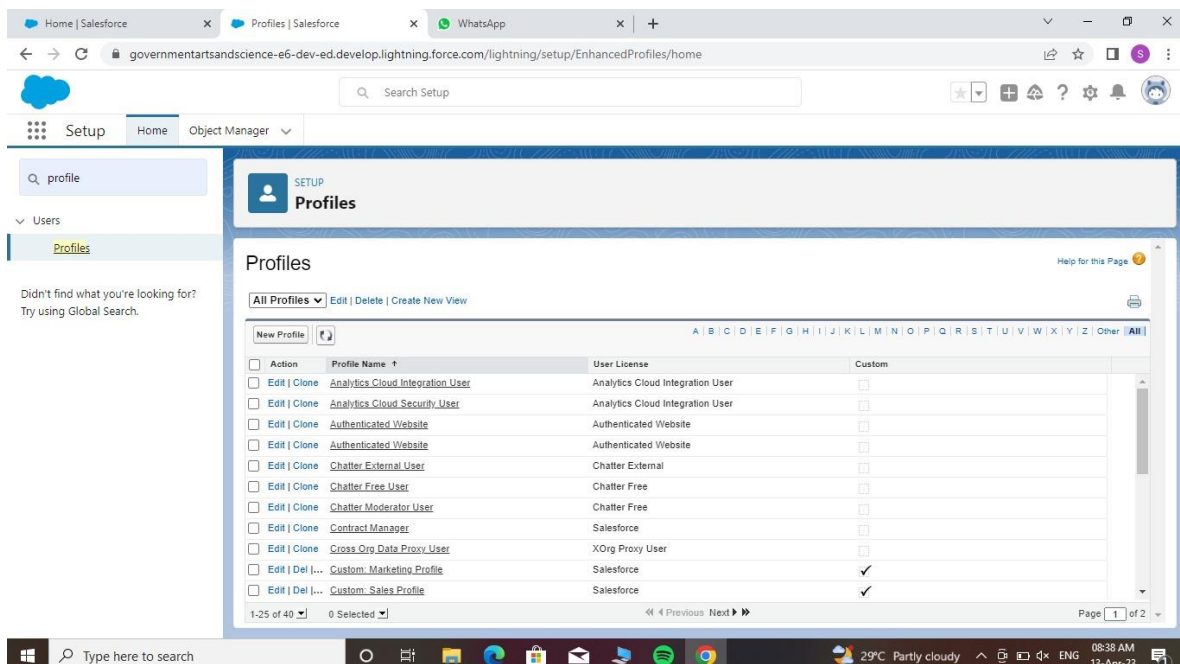


Accounts  
Recently Viewed

3 items • Updated a few seconds ago

	Account Name	Account Site	Phone	Account Owner Alias
1	text3	shobana	11	sp
2	text	jaya	22	sp
3	text	sumithra	45	sp

## Milestone 5:Profile:



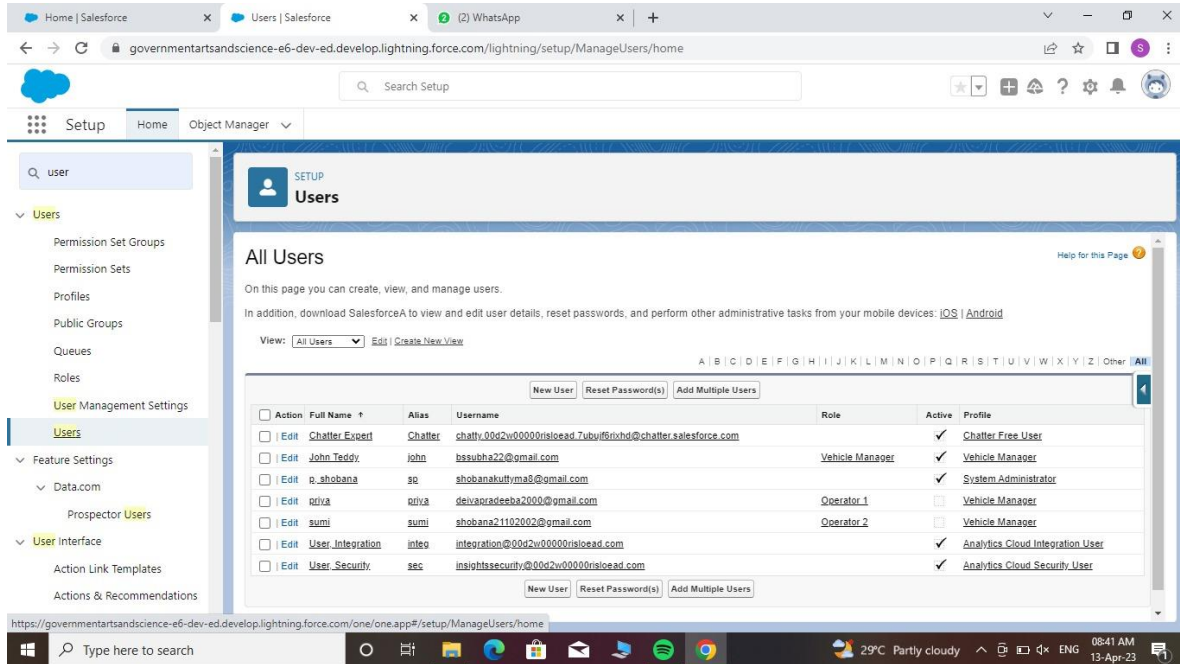
Setup  
Profiles

Profiles

All Profiles Edit Delete Create New View

Action	Profile Name	User License	Custom
Edit   Clone	Analytics Cloud Integration User	Analytics Cloud Integration User	<input type="checkbox"/>
Edit   Clone	Analytics Cloud Security User	Analytics Cloud Integration User	<input type="checkbox"/>
Edit   Clone	Authenticated Website	Authenticated Website	<input type="checkbox"/>
Edit   Clone	Authenticated Website	Authenticated Website	<input type="checkbox"/>
Edit   Clone	Chatter External User	Chatter External	<input type="checkbox"/>
Edit   Clone	Chatter Free User	Chatter Free	<input type="checkbox"/>
Edit   Clone	Chatter Moderator User	Chatter Free	<input type="checkbox"/>
Edit   Clone	Contract Manager	Salesforce	<input type="checkbox"/>
Edit   Clone	Cross Org Data Proxy User	XOrg Proxy User	<input type="checkbox"/>
Edit   Del   ...	Custom_Marketing_Profile	Salesforce	<input checked="" type="checkbox"/>
Edit   Del   ...	Custom_Sales_Profile	Salesforce	<input checked="" type="checkbox"/>

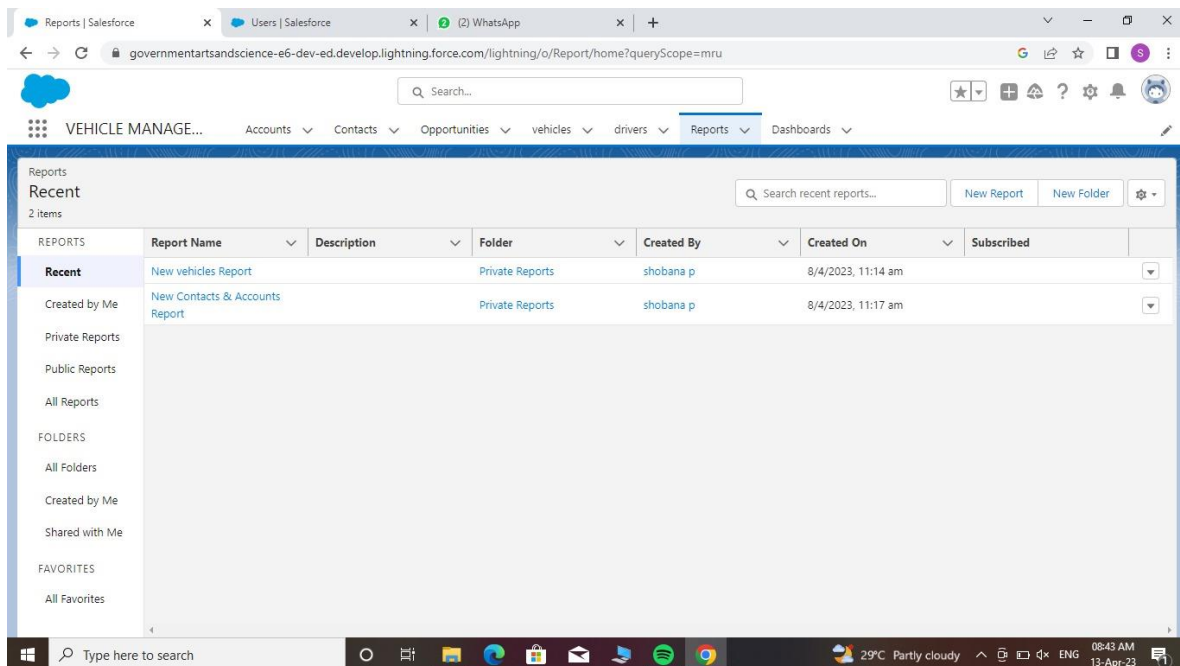
## Milestone 6: Users



The screenshot shows the Salesforce Setup page for Users. The left sidebar contains navigation options: Setup, Home, Object Manager, and a search bar. The main content area is titled 'All Users' and includes a search bar, a 'View' dropdown (set to 'All Users'), and a 'Create New User' button. Below this is a table of users with columns for Action, Full Name, Alias, Username, Role, Active, and Profile. The table lists several users, including Chatter Expert, John Teddy, q\_shobana, niva, sumi, User Integration, and User Security. The bottom of the page shows the Windows taskbar with various application icons and the system clock.

Action	Full Name	Alias	Username	Role	Active	Profile
<a href="#">Edit</a>	Chatter Expert	Chatter	chatter_00q2w00000risoad7ubyl6rind@chatter.salesforce.com		✓	Chatter Free User
<a href="#">Edit</a>	John Teddy	john	bsubha22@gmail.com	Vehicle Manager	✓	Vehicle Manager
<a href="#">Edit</a>	q_shobana	q	shobanakuhymsa@gmail.com		✓	System Administrator
<a href="#">Edit</a>	niva	niva	delivacradeeba200@gmail.com	Operator 1		Vehicle Manager
<a href="#">Edit</a>	sumi	sumi	shobana21102002@gmail.com	Operator 2		Vehicle Manager
<a href="#">Edit</a>	User Integration	inteo	integration@00q2w00000risoad.com		✓	Analytics Cloud Integration User
<a href="#">Edit</a>	User Security	sec	insightssecurity@00q2w00000risoad.com		✓	Analytics Cloud Security User

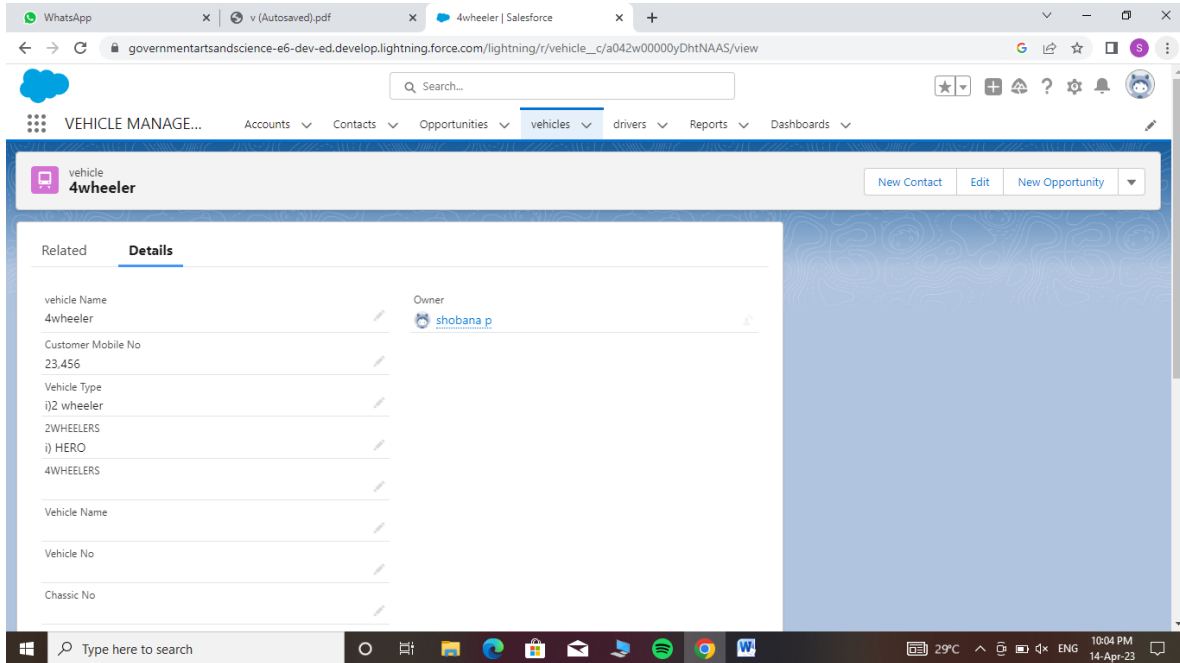
## Milestone 7: Reports



The screenshot shows the Salesforce Reports page. The left sidebar contains navigation options: Reports, Accounts, Contacts, Opportunities, vehicles, drivers, Reports, and Dashboards. The main content area is titled 'Recent' and includes a search bar, a 'New Report' button, and a 'New Folder' button. Below this is a table of reports with columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. The table lists two reports: 'New Vehicles Report' and 'New Contacts & Accounts Report'. The bottom of the page shows the Windows taskbar with various application icons and the system clock.

Report Name	Description	Folder	Created By	Created On	Subscribed
New Vehicles Report		Private Reports	shobana p	8/4/2023, 11:14 am	
New Contacts & Accounts Report		Private Reports	shobana p	8/4/2023, 11:17 am	

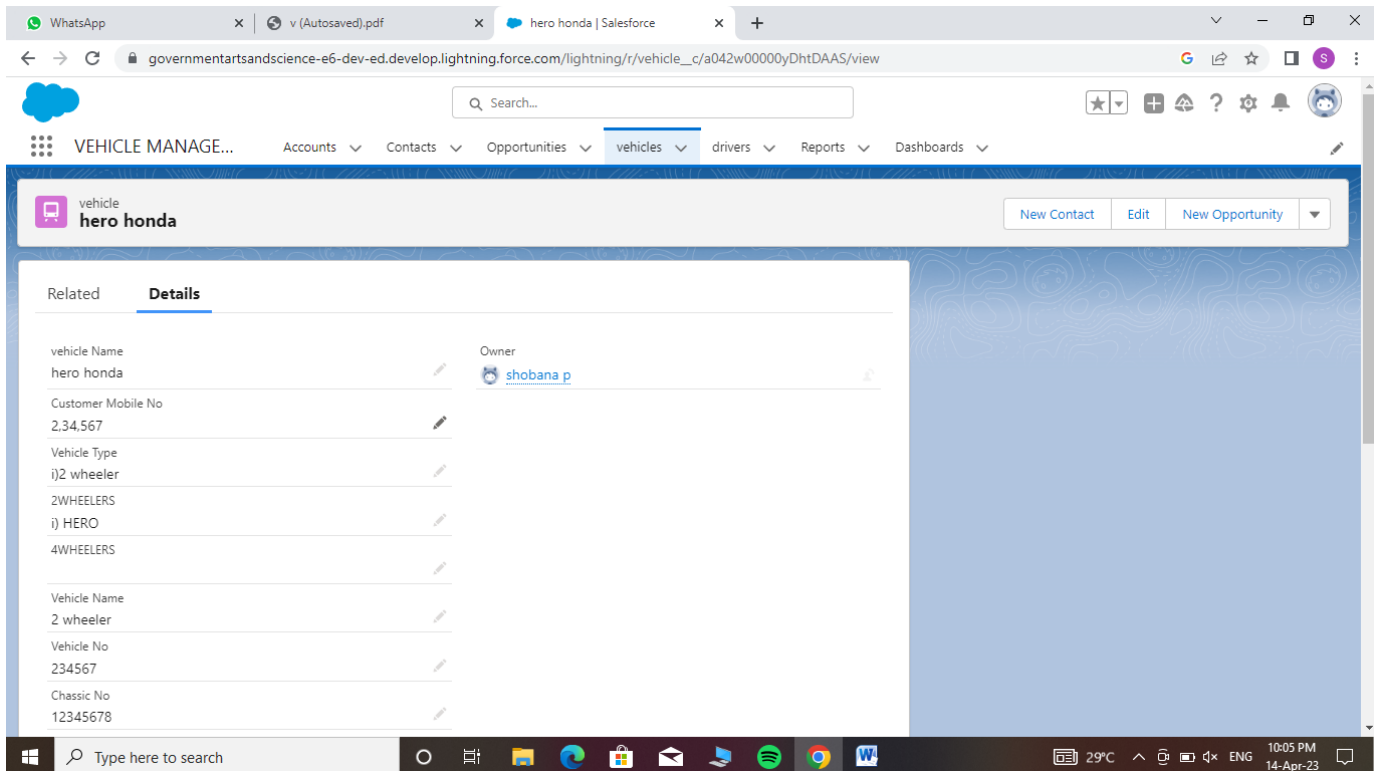
## DASHBOARD:



The screenshot shows the Salesforce 'VEHICLE MANAGE...' dashboard for a vehicle named '4wheeler'. The interface includes a search bar, navigation tabs (Accounts, Contacts, Opportunities, vehicles, drivers, Reports, Dashboards), and a 'Details' section. The 'Details' section lists the following information:

Related	Details
vehicle Name	4wheeler
Customer Mobile No	23.456
Vehicle Type	i) 2 wheeler
	2WHEELERS
	i) HERO
	4WHEELERS
Vehicle Name	
Vehicle No	
Chassic No	

The 'Owner' field is linked to a user profile named 'shobana p'. The dashboard also includes buttons for 'New Contact', 'Edit', and 'New Opportunity'.



The screenshot shows the Salesforce 'VEHICLE MANAGE...' dashboard for a vehicle named 'hero honda'. The interface is similar to the previous one, with a search bar, navigation tabs, and a 'Details' section. The 'Details' section lists the following information:

Related	Details
vehicle Name	hero honda
Customer Mobile No	2.34.567
Vehicle Type	i) 2 wheeler
	2WHEELERS
	i) HERO
	4WHEELERS
Vehicle Name	2 wheeler
Vehicle No	234567
Chassic No	12345678

The 'Owner' field is linked to a user profile named 'shobana p'. The dashboard also includes buttons for 'New Contact', 'Edit', and 'New Opportunity'.

### 3 Trailhead Profile Public URL

**Team Leader- SHOBANA**

<https://trailblazer.me/id/sshobana6>

**Team Member 1-SRJDHARAN**

<https://trailblazer.me/id/sridr15>

**Team Member 2-**

**SUBHA PRJYA**

<https://trailblazer.me/id/subhb4>

**Team Member 3 –SUMJTHRA DEVJ**

<https://trailblazer.me/id/sdevi339>

### 4 ADVANTAGES & DISADVANTAGE

#### Advantages - Vehicle Management

*Duplication of the vehicle data is avoided*

*As vehicle number is already stored in the master therefore human mistakes can be avoided*

*It Timely alerts ensure that penalties are avoided*

*Depending on the type of fleet being managed, a vehicle management system can reap a few or more business benefits.*

*Not withstanding that it largely depends on the quality of management conducted by the fleet owner, fleet manager or*

*fleet operator, even mere few of these benefits can make a real difference in the fleet's performance efficiency, with substantial impact on ROJ. That is to say, it may make the difference between a fleet of assets and a fleet of liabilities.*

### **Disadvantages of Fleet 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. Hence it is difficult to track the fleet when they are in such regions or behind such locations.*

*The Software Requirements Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined*

*by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.*

6

## 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.*
- ☐ 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 to test cases.*

## 7

## FUTURE SCOPE

*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*