

## **1 INTRODUCTION**

### **1.1 Overview**

To develop an app for the Vehicle Management System which uses application or technology to track and manage different kinds of Vehicles such as Cars, Bikes, Commercial Vehicles. The Vehicle Management System also keeps a records of vehicles such as purchase, driver records, fuel information. The system uses Vehicle Management Software which keeps all the reports and sends as per stored email database.


### **1.2 Purpose**

A Vehicle Management system is a software system-or platform that serves to Manage Commercial fleets of Vehicles, such as Cars, Bikes, Commercial Vehicles or even heavy equipment to ensure they're utilized safely, efficiently and professionally while making sure they're well maintained and high-performing.

## 2. Problem Definition & Design Think

### 2.1 Empathy Map

Template



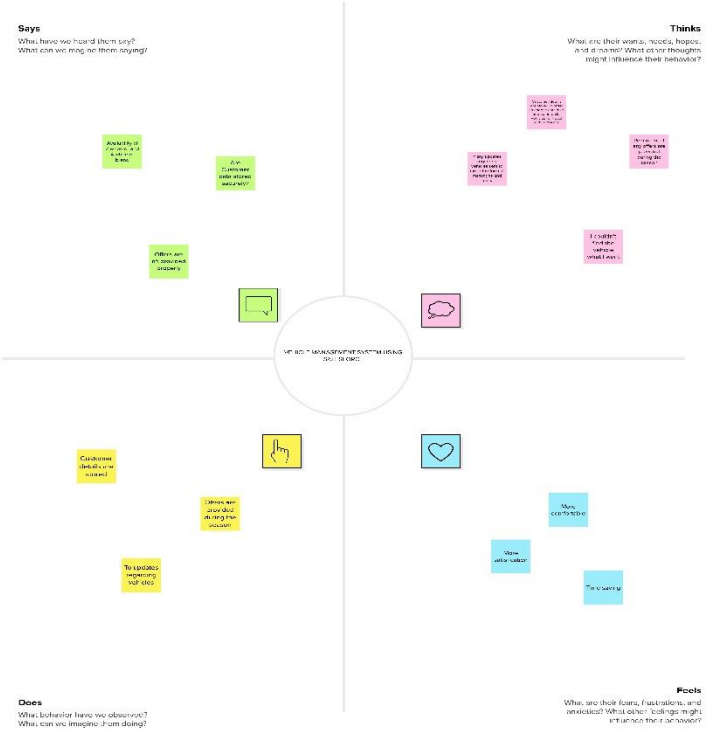
### Empathy map

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.

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#### Build empathy

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




**Says**  
What have we heard them say?  
What can we stop, or them saying?

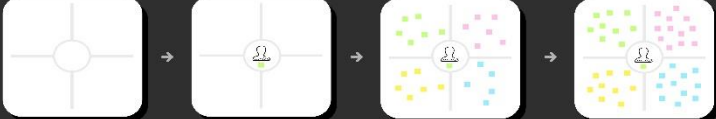
**Thinks**  
What are their wants, needs, hopes, and dreams? What are their thoughts, might influence their behavior?

**Does**  
What behavior have we observed?  
What can we imagine them doing?

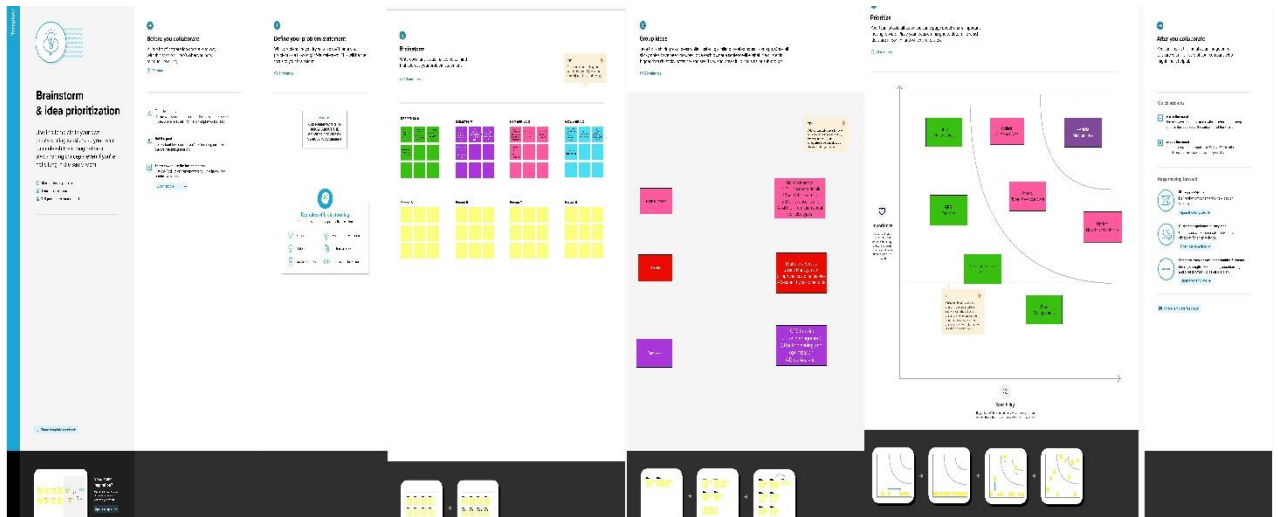
**Feels**  
What are their fears, frustrations, and anxieties? What other feelings might influence their behavior?



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



## 2.2 Ideation & Brainstorming Map



## 3 RESULT

### 3.1 Data Model:

| Object name | Fields in the Object  |           |
|-------------|---|-----------|
| Vehicles    | Field label   | Data type |
|             | Customer Name   | Text      |
|             | Customer Mobile No  | Number    |
|             | Vehicle Type<br>i)2wheeler<br>ii)4wheeler                                 | Picklist  |
|             | 2WHEELERS<br>i)HERO<br>ii)HONDA<br>iii)BAJAJ<br>iv)ROYAL ENFIELD<br>v)TVS | Picklist  |
|             |   |           |

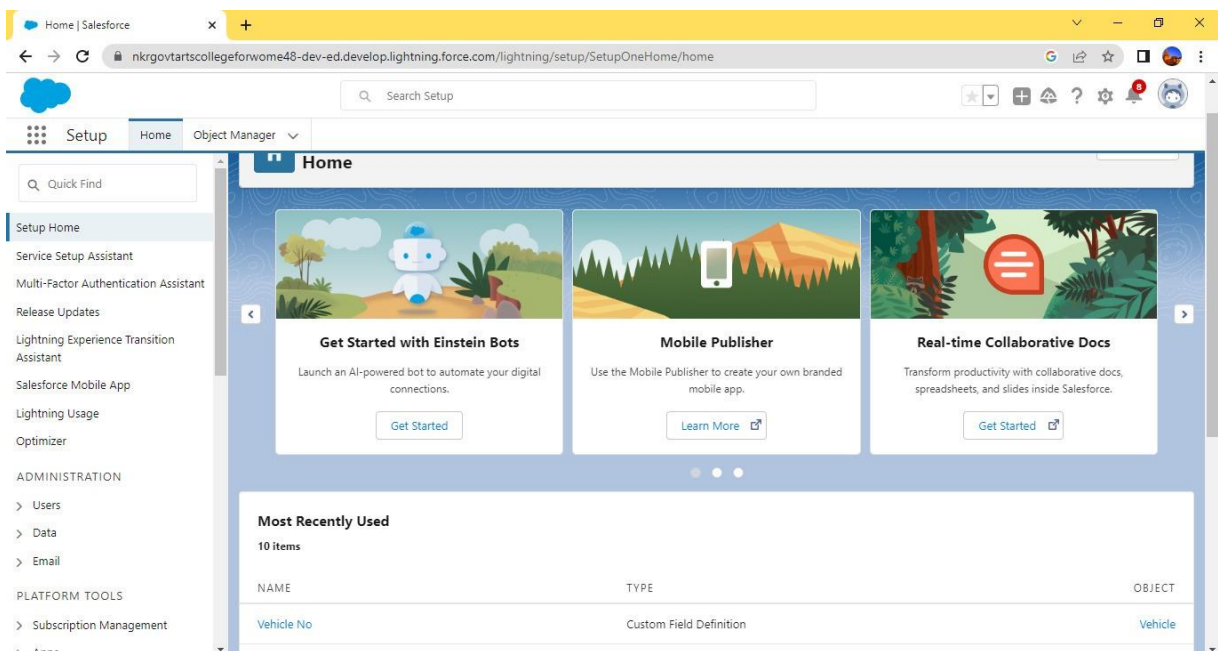
|                       |                |          |
|-----------------------|----------------|----------|
|                       | vi)KINETIC     |          |
|                       | vii)OLA        |          |
|                       | viii)JAWA      |          |
|                       | ix)SD          |          |
|                       | x)BATTERY      |          |
|                       | 4WHEELERS      | Picklist |
|                       | i)RENAULY      |          |
|                       | ii)SKODA       |          |
|                       | iii)HONDA      |          |
|                       | iv)HYUNDAI     |          |
| v)SUZUKI              |                |          |
| vi)MAHINDRA           |                |          |
| vii)VOLKSWAGEN        |                |          |
| viii)BENZ             |                |          |
| ix)AUDI               |                |          |
| x)VOLVO               |                |          |
| Vehicles Name         | Text           |          |
| Vehicle No            | Text           |          |
| Chassic No            | Text           |          |
| Colour                | Text           |          |
| Body Type             | Text           |          |
| Vehicle Includes      | Multi Picklist |          |
| i)Fire Extenuation    |                |          |
| ii)First Aid Kit      |                |          |
| iii)Multi Charger Kit |                |          |
| iv)Stepney            |                |          |
| v)Stereo              |                |          |
| vi)Tool Kit           |                |          |
| vii)Tracking Device   |                |          |
| viii)Tyre Jack        |                |          |
| Condition             | Picklist       |          |
| i)Good                |                |          |

|  |             |                       |
|--|-------------|-----------------------|
|  | ii)Medium   |                       |
|  | iii)Least   |                       |
|  | Mileage     | Text                  |
|  | Seats       | Number                |
|  | Start Date  | Date/Time             |
|  | End Date    | Date/Time             |
|  | Opportunity | Lookup(opportunities) |

|        |               |                 |
|--------|---------------|-----------------|
| Driver | Field label   | Data type       |
|        | Driver Name   | Text            |
|        | Licence No    | Text            |
|        | Mobile No     | Number          |
|        | Fair Per Hour | Text            |
|        | Vehicle       | Lookup(Vehicle) |

## 3.2 Activity & Screenshot

### 1.CREATION SALESFORCE ORG



## DESCRIPTION:

We create a developer org in Salesforce and We log in to Salesforce Account.

## 2.OBJECT:

The image displays three screenshots of the Salesforce Setup interface, illustrating the configuration of custom objects and tabs.

**Top Screenshot: Vehicle Object Configuration**

The 'Vehicle' object configuration page is shown. The left sidebar lists various configuration options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Object Limits, and Record Types. The 'Details' section is expanded, showing the following fields:

- Description
- API Name: Vehicle\_\_c
- Custom: ☒
- Singular Label: Vehicle
- Plural Label: Vehicles

On the right side, the 'Details' section includes the following options:

- Enable Reports: ☒
- Track Activities: ☒
- Track Field History: ☐
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

**Middle Screenshot: Driver Object Configuration**

The 'Driver' object configuration page is shown. The left sidebar lists various configuration options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Object Limits, and Record Types. The 'Details' section is expanded, showing the following fields:

- Description
- API Name: Driver\_\_c
- Custom: ☒
- Singular Label: Driver
- Plural Label: Drivers

On the right side, the 'Details' section includes the following options:

- Enable Reports: ☒
- Track Activities: ☒
- Track Field History: ☐
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

**Bottom Screenshot: Custom Tabs Page**

The 'Custom Tabs' page is shown. The left sidebar lists various configuration options: User Interface, Rename Tabs and Labels, and Tabs. The 'Tabs' section is expanded, showing the following tabs:

- Custom Object Tabs: ☒
- Web Tabs: ☐

The 'Custom Object Tabs' section is expanded, showing the following tabs:

- Tab: ☒
- Tab: ☐

The 'Web Tabs' section is expanded, showing the following tabs:

- Tab: ☐

## DESCRIPTION:

We create a object for Vehicle Management and We Create a two objects namely vehicles and drivers.

# 1 FIELDS AND RELATIONSHIP:

The screenshot shows the Salesforce Setup interface for the 'Vehicle' object. The 'Fields & Relationships' section is active, displaying a list of 21 fields sorted by Field Label. The fields are as follows:

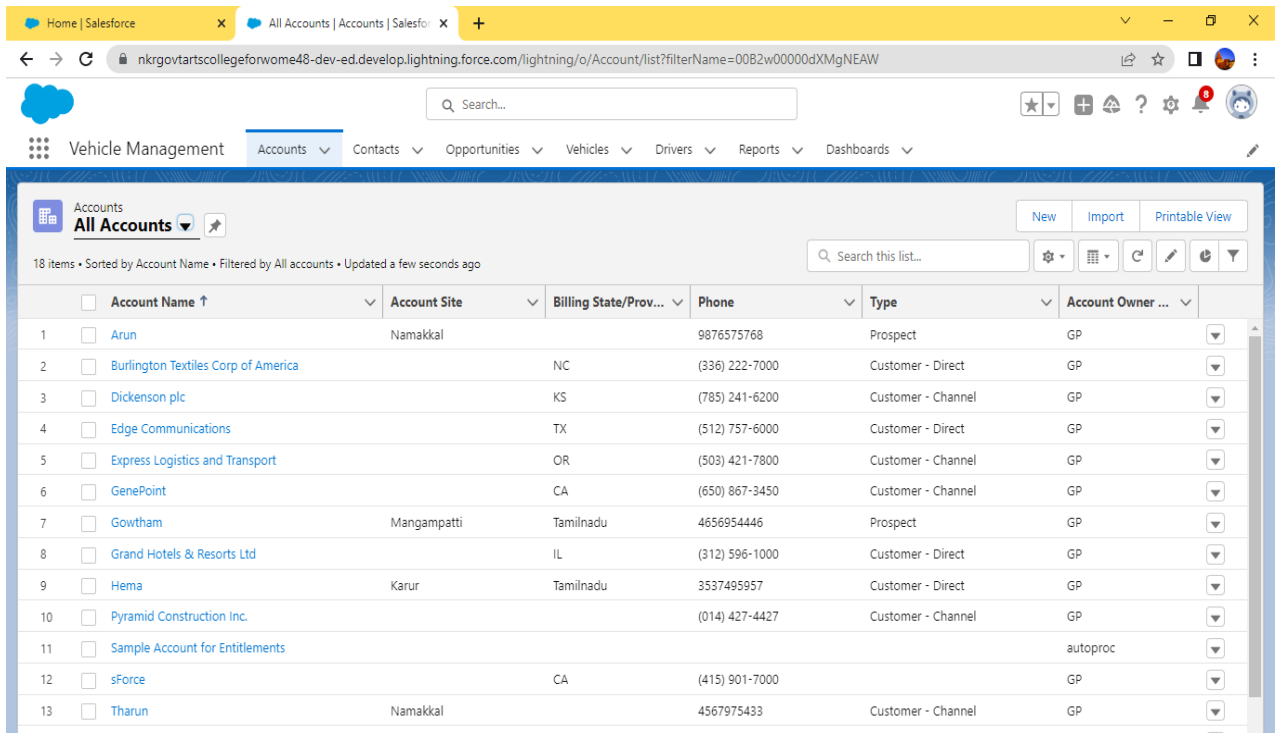
| FIELD LABEL | FIELD NAME     | DATA TYPE    | CONTROLLING FIELD | INDEXED |
|-------------|----------------|--------------|-------------------|---------|
| 2WHEELERS   | X2_WHEELERS__c | Picklist     | Vehicle Type      |         |
| 4WHEELERS   | X4_WHEELERS__c | Picklist     | Vehicle Type      |         |
| Body Type   | Body_Type__c   | Text(10)     |                   |         |
| Chassic No  | Chassic_No__c  | Text(12)     |                   |         |
| Colour      | Colour__c      | Text(15)     |                   |         |
| Condition   | Condition__c   | Picklist     |                   |         |
| Created By  | CreatedById    | Lookup(User) |                   |         |

The interface includes a left sidebar with navigation options like Details, Fields & Relationships, Page Layouts, and Lightning Record Pages. The top navigation bar shows 'Setup', 'Home', and 'Object Manager'. The bottom status bar indicates the system is in English (US) on 4/12/2023 at 10:52 PM.

## DESCRIPTION:

Field and relationships are created by creating custom relationship fields on an object. This is done so that when users view records , they can also see and access related data.

## 4.LIGHTNING APP:



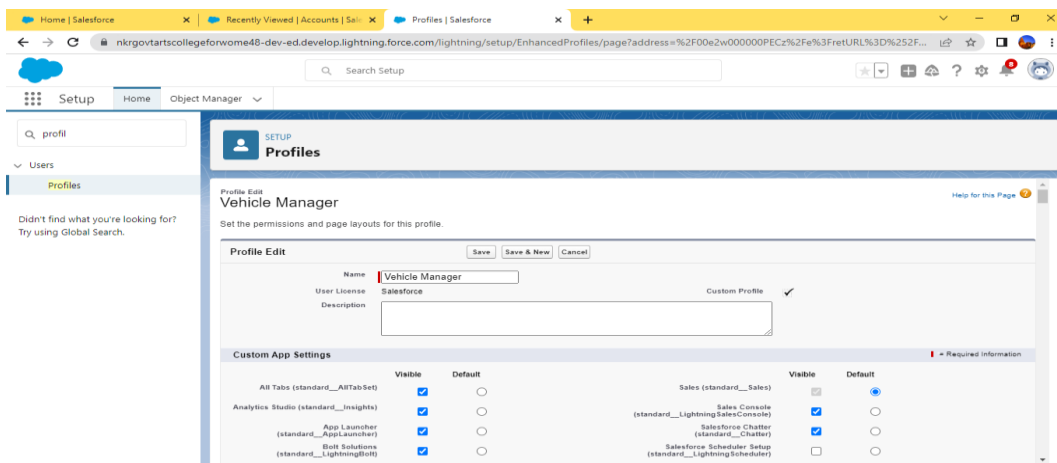
The screenshot shows the Salesforce Lightning App interface for the 'Accounts' list. The top navigation bar includes 'Vehicle Management', 'Accounts', 'Contacts', 'Opportunities', 'Vehicles', 'Drivers', 'Reports', and 'Dashboards'. The 'Accounts' section is active, displaying a list of 18 items. The list is sorted by Account Name and filtered by All accounts. The table columns are: Account Name, Account Site, Billing State/Prov..., Phone, Type, and Account Owner. The data rows show various accounts like Arun, Burlington Textiles Corp of America, Dickenson plc, Edge Communications, Express Logistics and Transport, GenePoint, Gowtham, Grand Hotels & Resorts Ltd, Hema, Pyramid Construction Inc., Sample Account for Entitlements, sForce, and Tharun.

|    | Account Name ↑   | Account Site | Billing State/Prov... | Phone          | Type               | Account Owner ... |
|----|--|--------------|-----------------------|----------------|--------------------|-------------------|
| 1  | <input type="checkbox"/> Arun                                | Namakkal     |                       | 9876575768     | Prospect           | GP                |
| 2  | <input type="checkbox"/> Burlington Textiles Corp of America |              | NC                    | (336) 222-7000 | Customer - Direct  | GP                |
| 3  | <input type="checkbox"/> Dickenson plc                       |              | KS                    | (785) 241-6200 | Customer - Channel | GP                |
| 4  | <input type="checkbox"/> Edge Communications                 |              | TX                    | (512) 757-6000 | Customer - Direct  | GP                |
| 5  | <input type="checkbox"/> Express Logistics and Transport     |              | OR                    | (503) 421-7800 | Customer - Channel | GP                |
| 6  | <input type="checkbox"/> GenePoint                           |              | CA                    | (650) 867-3450 | Customer - Channel | GP                |
| 7  | <input type="checkbox"/> Gowtham                             | Mangampatti  | Tamilnadu             | 4656954446     | Prospect           | GP                |
| 8  | <input type="checkbox"/> Grand Hotels & Resorts Ltd          |              | IL                    | (312) 596-1000 | Customer - Direct  | GP                |
| 9  | <input type="checkbox"/> Hema                                | Karur        | Tamilnadu             | 3537495957     | Customer - Direct  | GP                |
| 10 | <input type="checkbox"/> Pyramid Construction Inc.           |              |                       | (014) 427-4427 | Customer - Channel | GP                |
| 11 | <input type="checkbox"/> Sample Account for Entitlements     |              |                       |                |                    | autoproc          |
| 12 | <input type="checkbox"/> sForce                              |              | CA                    | (415) 901-7000 |                    | GP                |
| 13 | <input type="checkbox"/> Tharun                              | Namakkal     |                       | 4567975433     | Customer - Channel | GP                |

## DESCRIPTION:

We create the Vehicle Management Construction App using Lightning App.

## 5.PROFILE:



The screenshot shows the Salesforce Setup interface for the 'Vehicle Manager' profile. The 'Profile Edit' section is active, displaying the profile name 'Vehicle Manager', user license 'Salesforce', and a custom profile checkbox checked. The 'Custom App Settings' section shows a table of app settings with columns for 'Visible' and 'Default'.

| App   | Visible                             | Default                             |
|---|-------------------------------------|-------------------------------------|
| All Tabs (standard__AllTabSet)                            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Analytics Studio (standard__Insights)                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| App Launcher (standard__AppLauncher)                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Bolt Solutions (standard__LightningBolt)                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Sales (standard__Sales)                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Sales Console (standard__LightningSalesConsole)           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Salesforce Chatter (standard__Chatter)                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Salesforce Scheduler Setup (standard__LightningScheduler) | <input type="checkbox"/>            | <input type="checkbox"/>            |

## DESCRIPTION:

We create a Vehicle Manager Profile and set its object Permission.



## 6.USERS:

The screenshot shows the Salesforce Setup interface for managing users. The left sidebar contains a navigation menu with options like 'Users', 'Permission Set Groups', 'Permission Sets', 'Profiles', 'Public Groups', 'Queues', 'Roles', 'User Management Settings', 'Feature Settings', 'Data.com', 'Prospector Users', 'User Interface', 'Action Link Templates', and 'Actions & Recommendations'. The main content area is titled 'All Users' and includes a search bar, a 'View: All Users' dropdown, and a 'Create New User' button. Below this is a table listing users with columns for Action, Full Name, Alias, Username, Role, Active status, and Profile. The table contains seven rows of user data, including roles like Chatter Free User, System Administrator, Operator, Vehicle Manager, and Analytics Cloud Integration User.

| Action                                       | Full Name         | Alias   | Username  | Role            | Active | Profile                          |
|--|-------------------|---------|---|-----------------|--------|----------------------------------|
| <a href="#">Edit</a>                         | Chatter Exoert    | Chatter | chatter_00d2v00000r0inead f3s2uotgsd7k@chatter.salesforce.com |                 | ✓      | Chatter Free User                |
| <a href="#">Edit</a>                         | P. Gomathi        | GP      | gomathi@nkr.salesforce  |                 | ✓      | System Administrator             |
| <a href="#">Edit</a>   <a href="#">Login</a> | Singh, Sharma     | ssing   | hooie0@gmail.com  | Operator 2      | ✓      | Operator                         |
| <a href="#">Edit</a>   <a href="#">Login</a> | Teddy, John       | ftedd   | hooiehooie20@gmail.com  | Vehicle Manager | ✓      | Vehicle Manager                  |
| <a href="#">Edit</a>                         | User, Integration | inteq   | integration@00d2v00000r0inead.com                             |                 | ✓      | Analytics Cloud Integration User |
| <a href="#">Edit</a>                         | User, Security    | sec     | insightssecurity@00d2v00000r0inead.com                        |                 | ✓      | Analytics Cloud Security User    |
| <a href="#">Edit</a>   <a href="#">Login</a> | Varma, Aditya     | avarm   | hooiehooie@gmail.com  | Operator 1      | ✓      | Operator                         |

## DESCRIPTION:

We create users to anyone to logs into Salesforce. Every users in Salesforce has a user Account.

## 7.REPORTS AND DASHBOARD:

The screenshot shows the Salesforce Reports interface. The top navigation bar includes 'Vehicle Management', 'Accounts', 'Contacts', 'Opportunities', 'Vehicles', 'Drivers', 'Reports', and 'Dashboards'. The 'Reports' tab is active. The report title is 'Vehicle and Customer details'. Below the title, there are summary statistics: 'Total Records: 5' and 'Total Customer Mobile No: 24,98,26,16,020'. A table displays the data with columns: 'Vehicle: Vehicle Name', 'Customer Name', 'Customer Mobile No', and 'Chassic No'. The table contains 6 rows of data.

|   | Vehicle: Vehicle Name | Customer Name | Customer Mobile No | Chassic No |
|---|-----------------------|---------------|--------------------|------------|
| 1 | TVS                   | Tharun        | 3,46,77,55,455     | 7          |
| 2 | Bajaj                 | Hema          | 3,65,87,95,435     | 1          |
| 3 | Hero                  | Varun         | 5,32,86,59,453     | 6          |
| 4 | OLA                   | Gowtham       | 6,04,37,67,345     | 3          |
| 5 | Honda                 | Varun         | 6,48,36,38,332     | 8          |
| 6 |                       |               | 24,98,26,16,020    |            |

The screenshot shows the Salesforce Dashboards interface. The top navigation bar includes 'Vehicle Management', 'Accounts', 'Contacts', 'Opportunities', 'Vehicles', 'Drivers', 'Reports', and 'Dashboards'. The 'Dashboards' tab is active. The dashboard title is 'Vehicle and Customer Details'. Below the title, there are buttons for 'Refresh', 'Edit', and 'Subscribe'. A summary card titled 'Vehicle and Customer details' is displayed, showing a table with columns: 'Vehicle: Vehicle Name', 'Customer Name', 'Customer Mobile No', and 'Chassic No'. The table contains 6 rows of data. Below the table, there is a link to 'View Report (Vehicle and Customer details)'.

| Vehicle: Vehicle Name | Customer Name | Customer Mobile No | Chassic No |
|-----------------------|---------------|--------------------|------------|
| Bajaj                 | Hema          | 4e                 | 1          |
| Hero                  | Varun         | 5e                 | 6          |
| Honda                 | Varun         | 6e                 | 8          |
| OLA                   | Gowtham       | 6e                 | 3          |
| TVS                   | Tharun        | 3e                 | 7          |

## DESCRIPTION:

We create a Report and Dashboard.

#### 4 Trailhead Profile Public URL

Team Lead- <https://trailblazer.me/id/ukeerthanas>

Team Member 1- <https://trailblazer.me/id/gomathip2003>

Team Member2- <https://trailblazer.me/id/gchandrasekaran8>

Team Member3- <https://trailblazer.me/id/uhemapriyag>



## Project Report Template

### 5 I) ADVANTAGES

- This project helps to analyses every single information of our vehicles.
- We know about our vehicles A to Z as corruption and expenses about our vehicles.
- It is active system of scientific world.

### II) DISADVANTAGES

- It is not possible to cover all of the customer needs.
- Changes of vehicles management system is difficult because it's needs more money and time.
- It not reached on rural area.

### 6 APPLICATIONS

- Vehicle management System used in Automative industry.
- It supports in the area of sales and services the business process that vehicle important.
- It used in manufacturing area of the new model vehicles.

### 7 CONCLUSION

- The vehicle management system proposed to make easy process of managing vehicle with the objective to replace the current approach.

### 8 FUTURE SCOPE

- To register and keep the information about all vehicles.
- Report from the database records in order to get the whole view about the vehicles amounts.

