# Project Report Template

# Project title: vehicle management system

#### 1 INTRODUCTION

#### 1.1 Overview:

Vehicle management system is a software that provides management functions for the transportation industry or organizations that own vehicles. It can support business processes such as procurement, sales, service, and inventory of new and used vehicles. It can also improve fleet efficiency, manage driver performance, track vehicle data, and control fuel consumption. It can be a windows application that allows users to add, edit, and delete passengers, staff, and bus routes. It can be a monitoring and control system for vehicle, driver, and goods.

# 1.2 Purpose:

# The reasons for having a vehicle management system are similar:

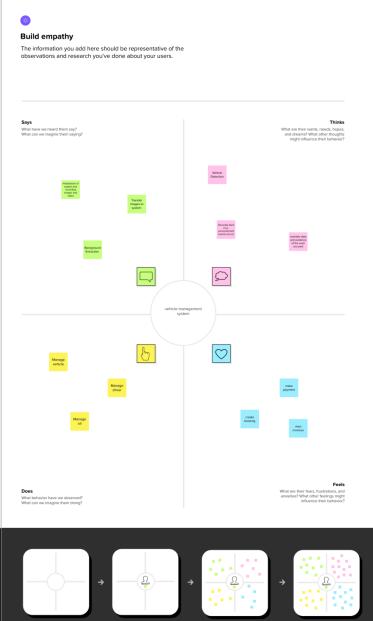
- Improving operational efficiency
- Improving accountability
- Maximizing the value of the fleet or vehicle program
- 2 Problem Definition & Design Thinking:

# 2.1 Empathy Map:



#### **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.

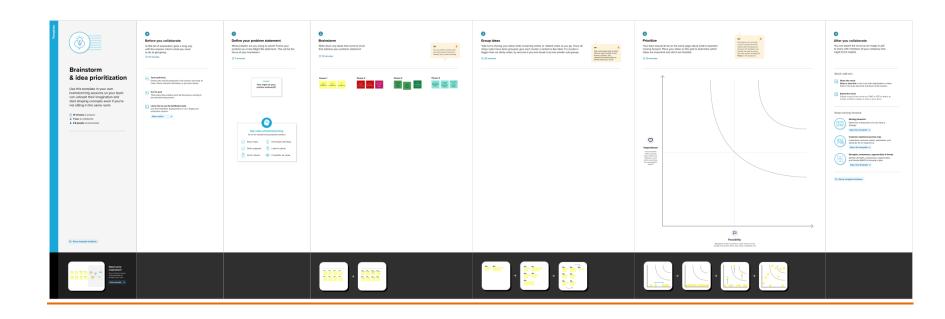




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# 2.2 Ideation & Brainstorming Map:



# **3 RESULT:**

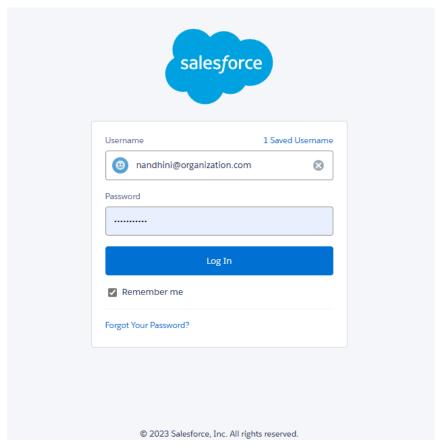
#### 3.1 Data Model:

OBJECT NAME	FIELD IN THE OBJECT	
	FIELD LABEL	DATA TYPE
<u>VEHICLE</u>	MILEAGE	TEXT
	<u>SEATS</u>	NUMBER
	START DATE	DATE/TIME
	END DATE	DATE/TIME
<u>DRIVER</u>	LICENSE NO	TEXT
	DRIVER NO	TEXT
	FAIR PER HOUR	TEXT
	MOBILE NUMBER	NUMBER

# 3.2 Activity & Screenshot:

# Milestone 1:

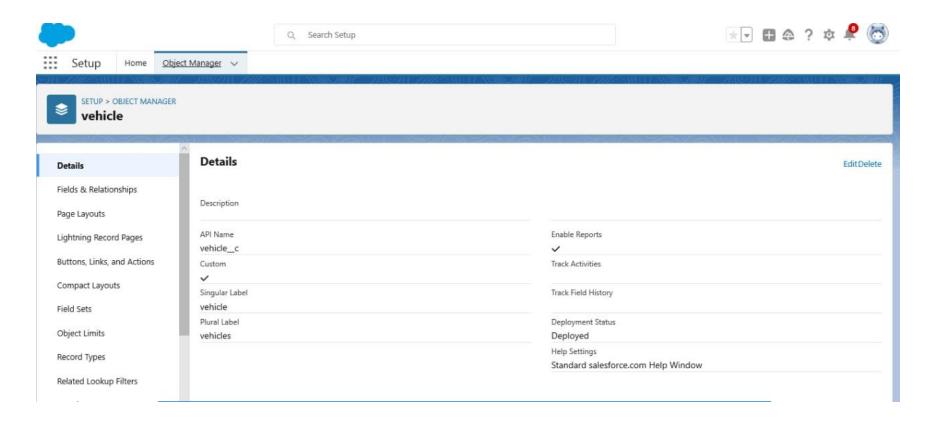
- Creation Salesforce Org.
- Creating Developer Account.
- Login To Your Salesforce Account.

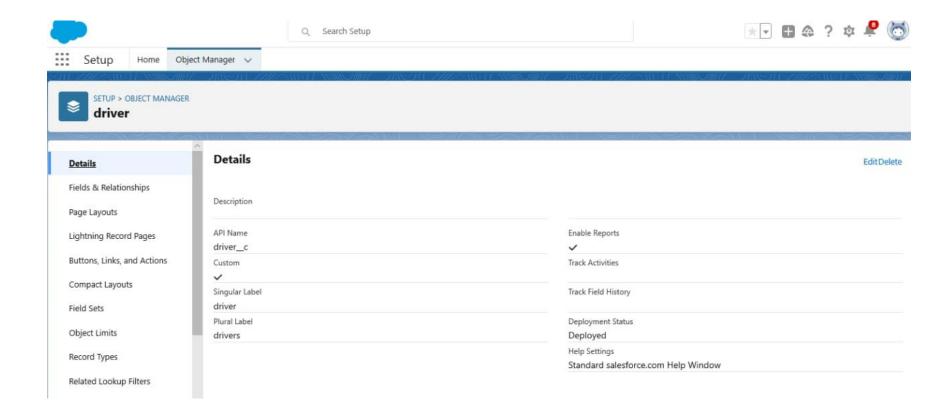


#### Milestone-2

# Object:

To Create an object: Creation of Objects for Vehicle Management, For this Vehicle Management we need to create 2 objects i.eVehicles, Driver





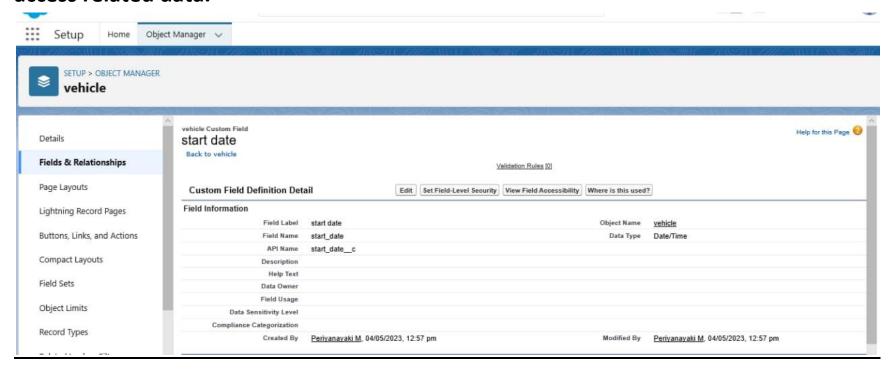
#### **SUCCESSFULLY CREATED TO 2 OBJECTS VEHICLE, DRIVER.**

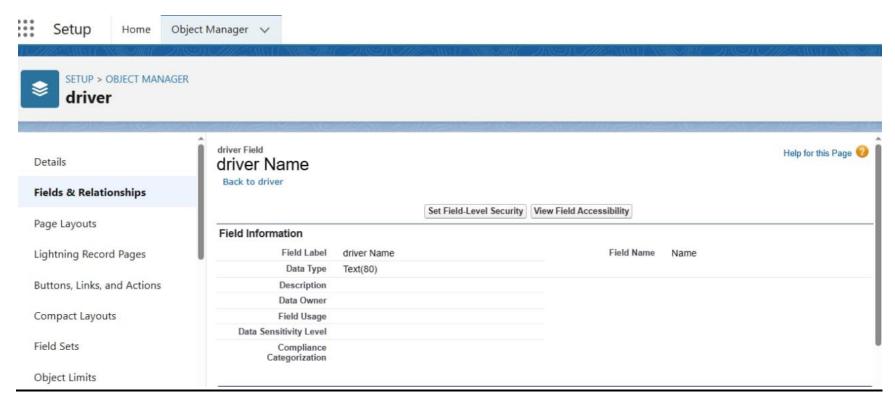
### Milestone -3:

# **Fields and Relationship**

An object relationship in Salesforce is a two-way association between two objects. 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.



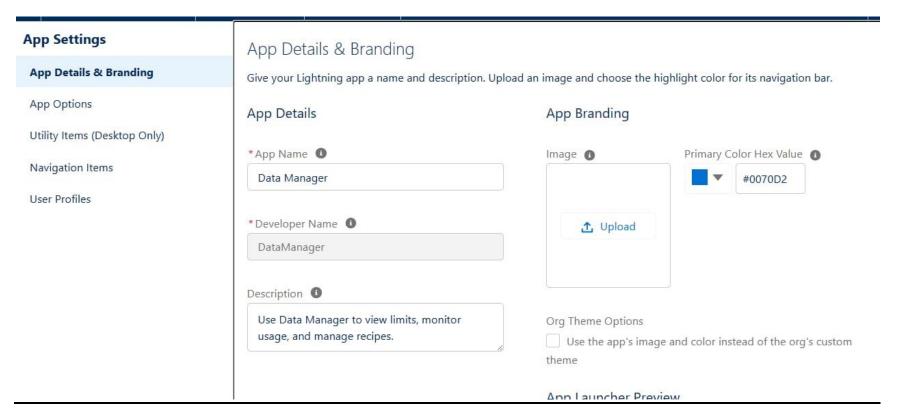


#### SUCCESSFULLY CREATED TO 2 FIELDS AND RELATIONSHIP VEHICE, DRIVER.

#### Milestone-4:

# **Lightning App**

Apps in Salesforce are a group of tabs that help the application function by working together as a unit. It has a name, a logo, and a particular set of tabs. The simplest app usually has just two tabs.



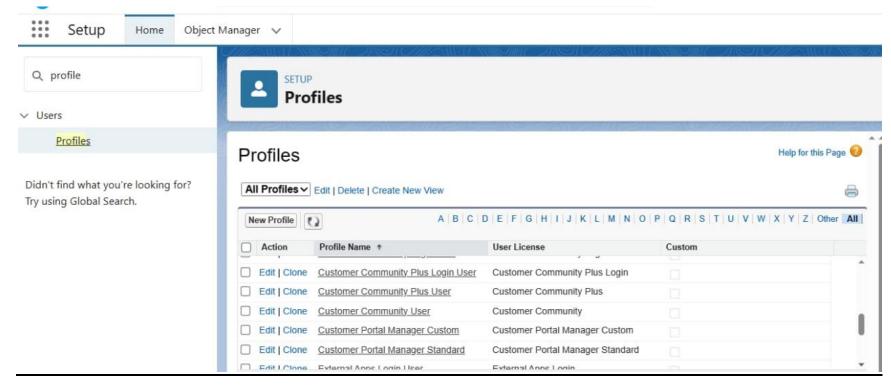
# Successfully created lightning app.

### Milestone-5:

# **Profile**

A profile is a group/collection of settings and permissions that define what a user can do in salesforce. A profile controls "Object permissions, Field permissions,

User permissions, Tab settings, App settings, Apex class access, Visualforce page access, Page layouts, Record Types, Login hours & Login IP range.

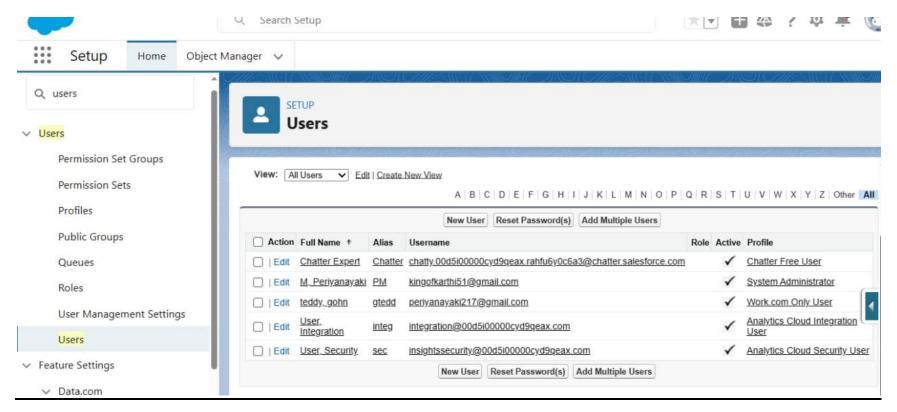


**Successfully created profiles.** 

#### Milestone-6:

#### **Users**

A user is anyone who logs in to Salesforce. Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account.

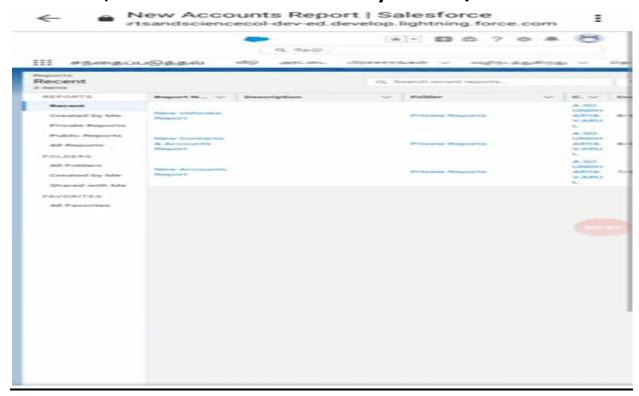


Successfuy created users.

## Milestone-7:

# Report

A report is a list of records that meet the criteria you define. It's displayed in Salesforce in rows and columns, and can be filtered, grouped, or displayed in a graphical chart. Every report is stored in a folder. Folders can be public, hidden, or shared, and can be set to read-only or read/write.



Successfully created reports.

#### 4 Trailhead Profile Public URL

Team Lead - https://trailblazer.me/id/perim7

Team Member 1 – https://trailblazer.me/id/ppuyal

Team Member 2 - https://trailblazer.me/id/mmurugaiya1

Team Member 3-https://trailblazer.me/id/poomd1

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#### **5 ADVANTAGES:**

a vehicle management system

- benefits ...
- 1. The entire fleet on a single screen, in real time ...
- 2. Vehicle status, readily available ...
- 3. Driver and vehicle safety and reliability ...
- 4. Improved fuel efficiency, minimized fuel fraud ...
- 5. Improved lifespan for vehicles and equipment ...
- 6. Better reporting on driver behavior, work hours and vehicle performance ...

- 7. Reduced maintenance and labor costs ...
  - 8. Tax deduction and insurance

# **DISADVANTAGES:**

- Pro: Simplifying Hired Hauling When it comes time to hire a hauler, you've got your work cut out for you. ...
- Pro: You Can Digitize All Paperwork Contractors have to handle a lot of paperwork in their day to day lives. ...
- Con: Change Management Is Difficult Organizations build muscles around processes over many years. ...
- Con: Not All Transportation Management Systems are Created Equal

#### **6 APPICATIONS:**

 You can manage all your vehicles centrally in a vehicle data pool and thus make them available to yourself and your dealers.
 You can store both business and technical master data for a vehicle in this data pool. The business details include data such as status of the vehicle (created, ordered and so on) or the availability of the vehicle (available, reserved, sold etc.). The technical details include data such as the individual features of the vehicle (horsepower, motor type, color etc.) as they have been defined in SAP variant configuration. For more, general information on standard variant configuration functions, see: <a href="Variant">Variant</a> Configuration.

## - 7 CONCLUSION:

- When a business first purchases a new vehicle, it will be able to completely track the vehicle and any modifications on it. It will also be able to track the cost of the vehicle.
- However, over time, the vehicle will not be completely new anymore. There
  will be more and more modifications on it. Then, the business needs to track
  these modifications.
- As a business needs to manage more and more data, they can find that it is more difficult to find a timeline that they can view the data. That is why it is necessary to have a system that can provide the data and analyze it.

 At the same time, the data scattered across the world will not always be able to be accessed. Therefore, the system has to be able to collect it from various sources.

#### **8 FUTURE SCOPE:**

This Special Issue would not have been a success without the constant efforts of the authors—including those whose papers could not be selected. We can only hope that this Special Issue is able to provide them with a platform to learn and improve their existing works based on the valuable comments of the reviewers and editors. We would also like to thank the reviewers for dedicating their time and energy to the submitted manuscripts and motivating the authors to improve their work. Last, but not least, we would like to extend our heartiest congratulations to the entire editorial team of *Applied Sciences* for their sincere efforts and constant dedication in making this Special Issue a success.