

PROJECT REPORT TEMPLATE

Vehicle Management System

1.INTRODUCTION

1.1 Overview

- Vehicle Management is an application where a customer Details are stored in order to choose cars, bikes and commercial vehicles for travel within the city.
- The data which is stored here is further used to remind them if any offers are provided during the seasons and any updates regarding vehicles are sent to them in the form of messages and mails.

➤ CREATION SALESFORCE ORG:

1. Go to developers.salesforce.com/
2. Click on sign up.
3. On the sign up form, enter the following details:
 - First name & Last name
 - Email
 - Role: Developer
 - Company: College Name
 - County: India
 - Postal Code: pin code
 - Username: should be a combination of your name and company
This need not be an actual email id; you can give anything in the format:
username@organization.com

➤ OBJECT:

TO create an object

- Click on the gear icon and then select Setup.
- Click on the object manager tab just beside the home tab.
- After the above steps, have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.
- Creation of Vehicle Object

On the Custom Object Definition page, create the object as follows:

- Label: Vehicle
 - Plural Label: Vehicles
 - Record Name: Vehicle Name
 - Check the Allow Reports checkbox
 - Check the Allow Search checkbox
 - Click Save.
 - Now create a custom tab. Click the Home tab, enter Tabs in Quick Find and select Tabs.
 - Under Custom Object Tabs, click New.
 - For Object, select Vehicle.
 - For Tab Style, select any icon.
 - Leave all defaults as is. Click Next, Next, and Save.
-
- To Create a driver object, continue the same steps Which is followed for the above object.

➤ **FIELDS AND RELATIONSHIP**

Creation of fields:

Fields in Vehicles objects follow below data types

- Customer name, Customer mobile number, Vehicle type, Two wheelers, Four wheelers, Vehicle name, Vehicle no, Chassis no, Color, Body type, Vehicle includes, Condition, Mileage, Seats, Start date, End date and Opportunity.
- Field, Driver name, License no, Mobile no, Fair per hour, Vehicle.
- To Create a fields in driver object continue the same steps Which is followed for the above object.
- Click Include Values.
- Click Preview, then test the dependency by selecting different Vehicle Type and viewing the different Vehicles available for Vehicle Type.
- Click Close to close the preview window.
- Click Save.

➤ **LIGHTNING APP:**

Create the Vehicle Management Construction app

- From Setup, enter App Manager in the Quick Find and select App Manager.
- Click New Lightning App. Enter Vehicle Management as the App Name, then click Next
- Under App Options, leave the default selections and click Next.
- Under Utility Items, leave as is and click Next.
- From Available Items, select Accounts, Contacts, Opportunities, Vehicle, Driver, Reports, and Dashboards and move them to Selected Items. Click Next.
- From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.
- To verify your changes, click the App Launcher, type Vehicle Management and select the Vehicle Management app.

➤ **PROFILE:**

Creating a Profiles:

Now create a Vehicle Manager profile and set its object permissions.

- From Setup enter Profiles in the Quick Find box, and select Profiles.
- From the list of profiles, find Standard User.
- Click Clone.
- For Profile Name, enter Vehicle Manager.
- Click Save.
- While still on the Vehicle Manager profile page, then click Edit.
- Scroll down to Custom Object Permissions and give access for Create, Read, Edit, Delete, View all and modify all for Vehicle object and Drivers object.
- Click on the new created profile as same as below steps.

➤ **USERS:**

Creating Users:

- From Setup, in the Quick Find box, enter Users, and then select Users.
- Click New User.
- Enter the user's name John Teddy and (Your) email address and a unique username in the form of an email address. By default, the username is the same as the email address.
- Select a **Role** (Vehicle Manager) 5. Select a User license as salesforce.
- Select a profile as Vehicle Manager.
- Check Generate new password and notify the user immediately to have the user's login name and a temporary password emailed to your email.
- Similarly Create other 2 users and assign operator 1 and operator 2 roles along with operator profile

➤ **REPORTS:**

Reports and Dashboards.

- Go to Reports and click New Report.
- Select the Accounts, Contacts and Vehicle report type and click Start Report.
- To begin filtering, click Filters.
- Click the Show Me standard filter and select My Contacts. Click Apply.
- Click on add columns add Vehicle: Vehicle name, Vehicle: Customer id, Vehicle: Customer name, Vehicle: Customer Number, Vehicle: Chassis Number.
- Click Save.
- Save your report as Vehicle and Customer Details and accept the auto-generated unique name.

Dashboard:

- Click the Dashboards tab.
- Click New Dashboard.
- Name the dashboard Vehicle and Customer Details and click Create.
- Click +Component.
- Select the Supplies report and click Select.
- Select the Vertical Bar Chart component and click Add.
- Click Save and then Done.
- Click new reports as same steps.

1.2 PURPOSE

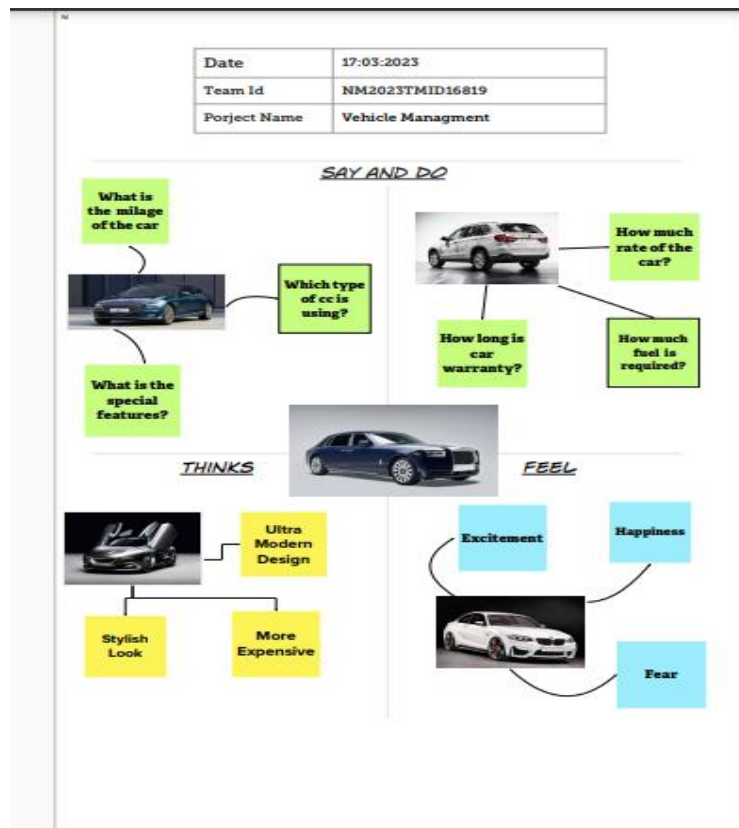
Salesforce is your customer success platform, designed to help you sell, service, market, analyze, and connect with your customers.

Salesforce has everything you need to run your business from anywhere. Using standard products and features, you can manage relationships with prospects and customers, collaborate and engage with employees and partners, and store your data securely in the cloud.

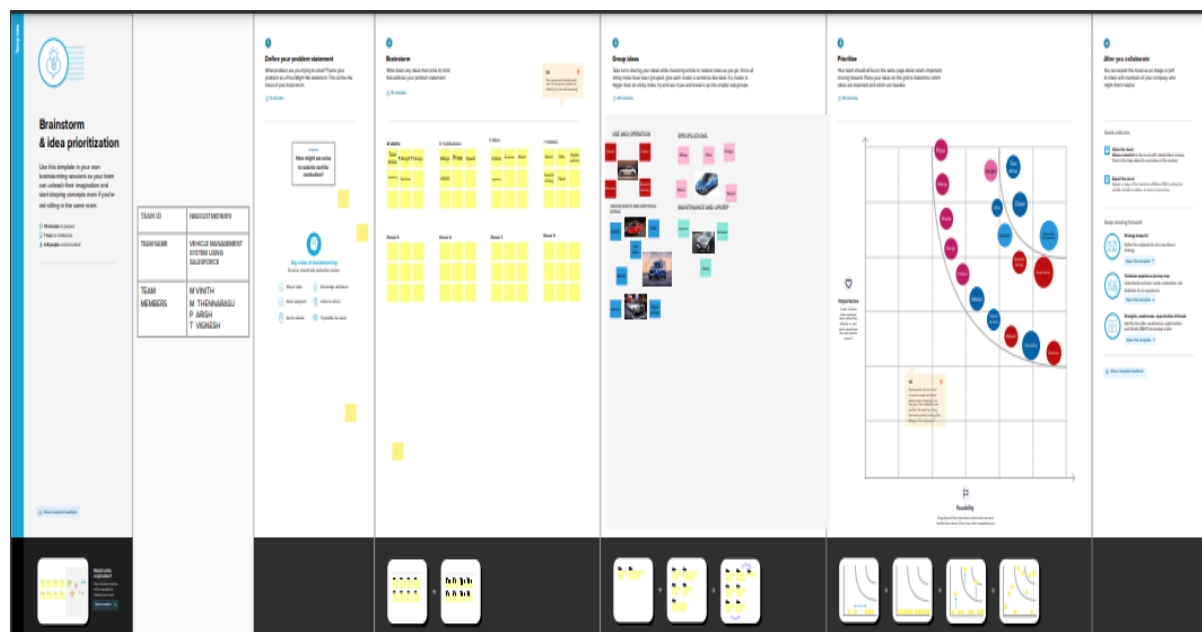
So what does that really mean? Well, before Salesforce, your contacts, emails, follow-up tasks, and prospective deals might have been organized something like this:

2. PROBLEM DEFINITION AND DESIGN THINKING

2.1 EMPATHY MAP



2.2 IDEATION AND BRAINSTORMING MAP



3. *RESULT*

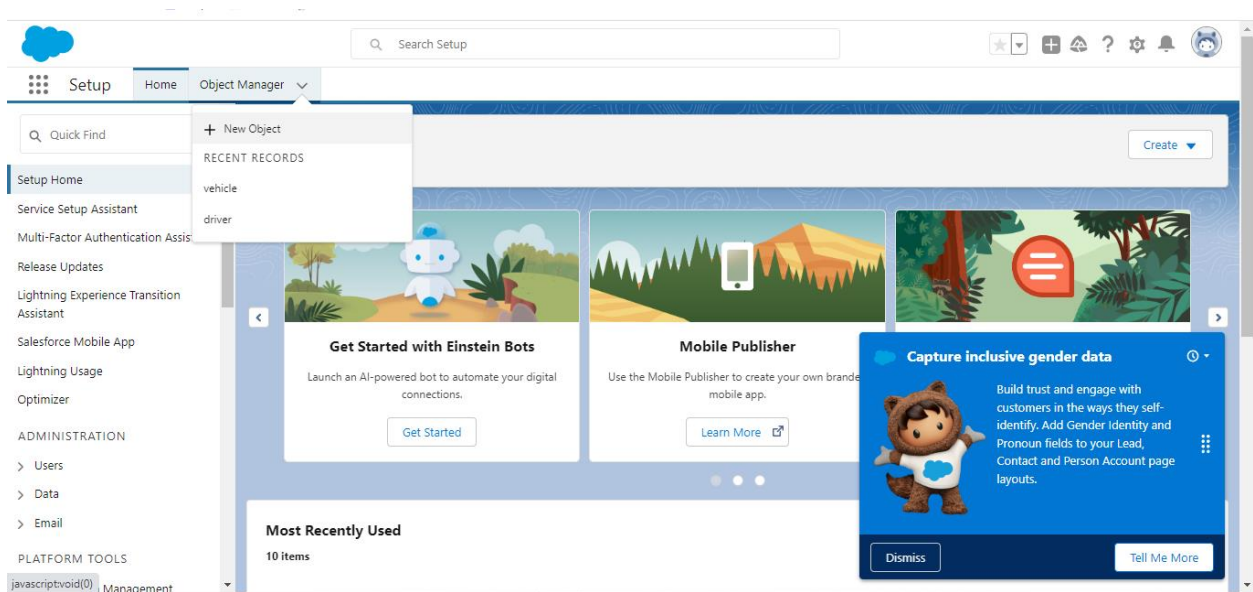
3.1 DATA MODEL

Object Name	Fields in the Objects	
vehicle	Field Label	Data Type
	Name	Text
	Mobil No	Number
	Vehicle Type	Picklist
	2 Wheelers	Picklist
	4 Wheelers	Picklist
	Vehicle Name	Text
	Vehicle No	Text
	Chassis No	Text
	Colour	Text
	Body Type	Text
	Vehicle Includes	Multi picklist
	Condition	Picklist
	Mileage	Text
	sets	Number
	Start date	Date/time
	End date	Date/time
	Opportunity	lookup

Driver	Field Label	Data Type
	Name	Text
	License No	Text
	Mobile No	Number
	Fair per Hour	Text
	Vehicle	Lookup

3.2 Activities and screenshot

Objects



Fields and relationship

<div> <div>Setup</div> <div>Home</div> <div>Object Manager</div> </div> <div> <div>Search Setup</div> <div> <div>Star</div> <div>Plus</div> <div>Refresh</div> <div>Help</div> <div>Settings</div> <div>Notifications</div> <div>Profile</div> </div> </div>																																												
<div> <div>Setup > OBJECT MANAGER</div> <div>vehicle</div> </div>																																												
<div>Details</div> <div>Fields & Relationships</div> <div>Page Layouts</div> <div>Lightning Record Pages</div> <div>Buttons, Links, and Actions</div> <div>Compact Layouts</div> <div>Field Sets</div> <div>Object Limits</div> <div>Record Types</div> <div>Related Lookup Filters</div> <div>Search Layouts</div>	<div> <div>Fields & Relationships</div> <div>26 Items, Sorted by Field Label</div> <div> <div>Quick Find</div> <div>New</div> <div>Deleted Fields</div> <div>Field Dependencies</div> <div>Set History Tracking</div> </div> </div> <table> <tr> <th>FIELD LABEL</th><th>FIELD NAME</th><th>DATA TYPE</th><th>CONTROLLING FIELD</th><th>INDEXED</th></tr> <tr> <td>2 WHEELERS</td><td>X2_WHEELERS__c</td><td>Picklist</td><td>vehicle type 1.2wheeler 2.4wheeler</td><td></td></tr> <tr> <td>4 WHEELERS</td><td>X4_WHEELERS__c</td><td>Picklist</td><td>vehicle type 1.2wheeler 2.4wheeler</td><td></td></tr> <tr> <td>Associated Location</td><td>Associated_Location__c</td><td>Lookup(Associated Location)</td><td></td><td>✓</td></tr> <tr> <td>Background Operation</td><td>Background_Operation__c</td><td>Lookup(Background Operation)</td><td></td><td>✓</td></tr> <tr> <td>Body Type</td><td>Body_Type__c</td><td>Text(9)</td><td></td><td></td></tr> <tr> <td>Chassic No</td><td>Chassic_No__c</td><td>Text(8)</td><td></td><td></td></tr> <tr> <td>Colour</td><td>Colour__c</td><td>Text(5)</td><td></td><td></td></tr> </table>				FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	2 WHEELERS	X2_WHEELERS__c	Picklist	vehicle type 1.2wheeler 2.4wheeler		4 WHEELERS	X4_WHEELERS__c	Picklist	vehicle type 1.2wheeler 2.4wheeler		Associated Location	Associated_Location__c	Lookup(Associated Location)		✓	Background Operation	Background_Operation__c	Lookup(Background Operation)		✓	Body Type	Body_Type__c	Text(9)			Chassic No	Chassic_No__c	Text(8)			Colour	Colour__c	Text(5)		
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vehicle | Salesforce

Ingcollege8-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003SIE8/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER
vehicle

Details

Fields & Relationships
26 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Colour	Colour__c	Text(5)	
Condition	Condition__c	Picklist	
Created By	CreatedById	Lookup(User)	
customer mobile no	customer_mobile_no__c	Number(18, 0)	
customer name	customer_name__c	Text(15)	
Driver Name	Driver_Name__c	Text(6)	
End Date	End_Date__c	Date/Time	
Fair Per Hour	Fair_Per_Hour__c	Text(4)	

Type here to search

30°C Haze 11:37 AM 12-Apr-23

vehicle | Salesforce

Ingcollege8-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003SIE8/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER
vehicle

Details

Fields & Relationships
26 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Fair Per Hour	Fair_Per_Hour__c	Text(4)	
Last Modified By	LastModifiedById	Lookup(User)	
Licence No	Licence_No__c	Text(15)	
Mileage	Mileage__c	Text(45)	
Mobile No	Mobile_No__c	Number(10, 0)	
Owner	OwnerId	Lookup(User,Group)	✓
Seats	Seats__c	Number(18, 0)	
Start Date	Start_Date__c	Date/Time	

Type here to search

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vehicle | Salesforce

Ingcollege8-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003SiE8/FieldsAndRelationships/view

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Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER
vehicle

Details

Fields & Relationships
26 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Seats	Seats__c	Number(18, 0)	
Start Date	Start_Date__c	Date/Time	
Vechile Includes	Vechile_Includes__c	Picklist (Multi-Select)	
Vechile Name	Vechile_Name__c	Text(15)	
Vechile No	Vechile_No__c	Text(6)	
vehicle Name	Name	Text(80)	✓
vehicle type 1.2wheeler 2.4wheeler	vehicle_type_1_2wheeler_2_4wheeler__c	Picklist	

Type here to search

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driver | Salesforce

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Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER
driver

Details

Fields & Relationships
4 Items, Sorted by Field Label

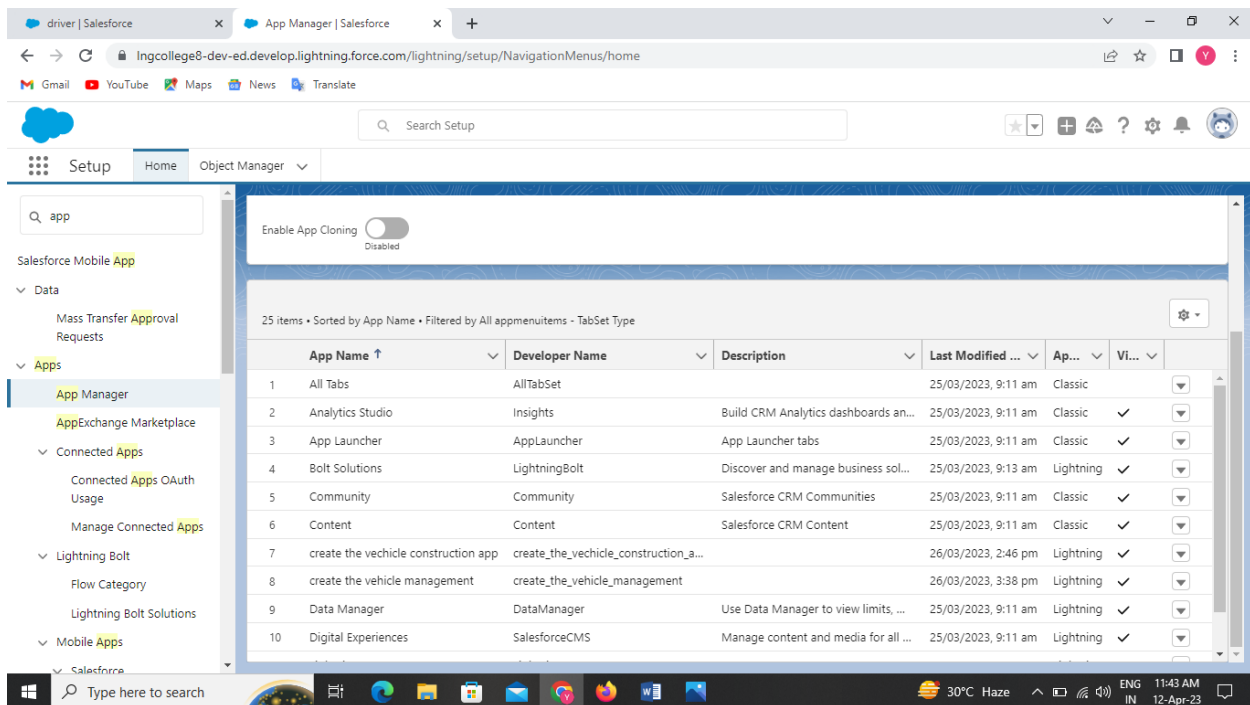
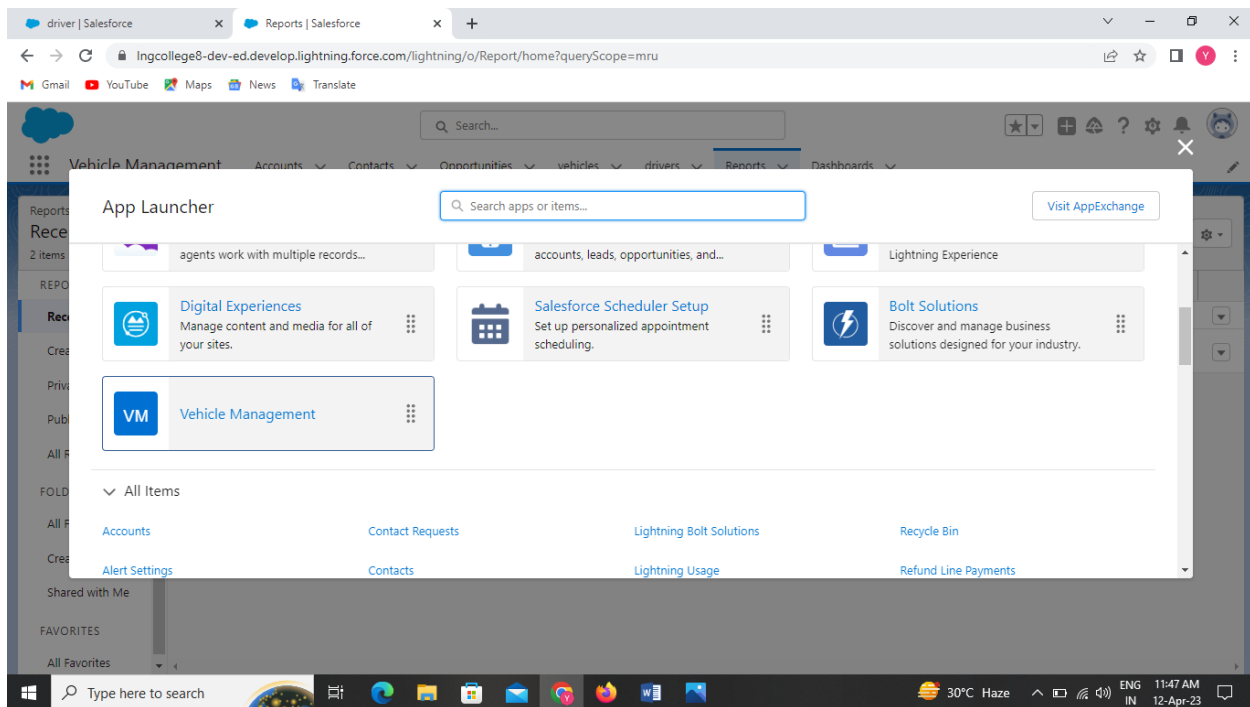
Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
driver Name	Name	Text(80)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓

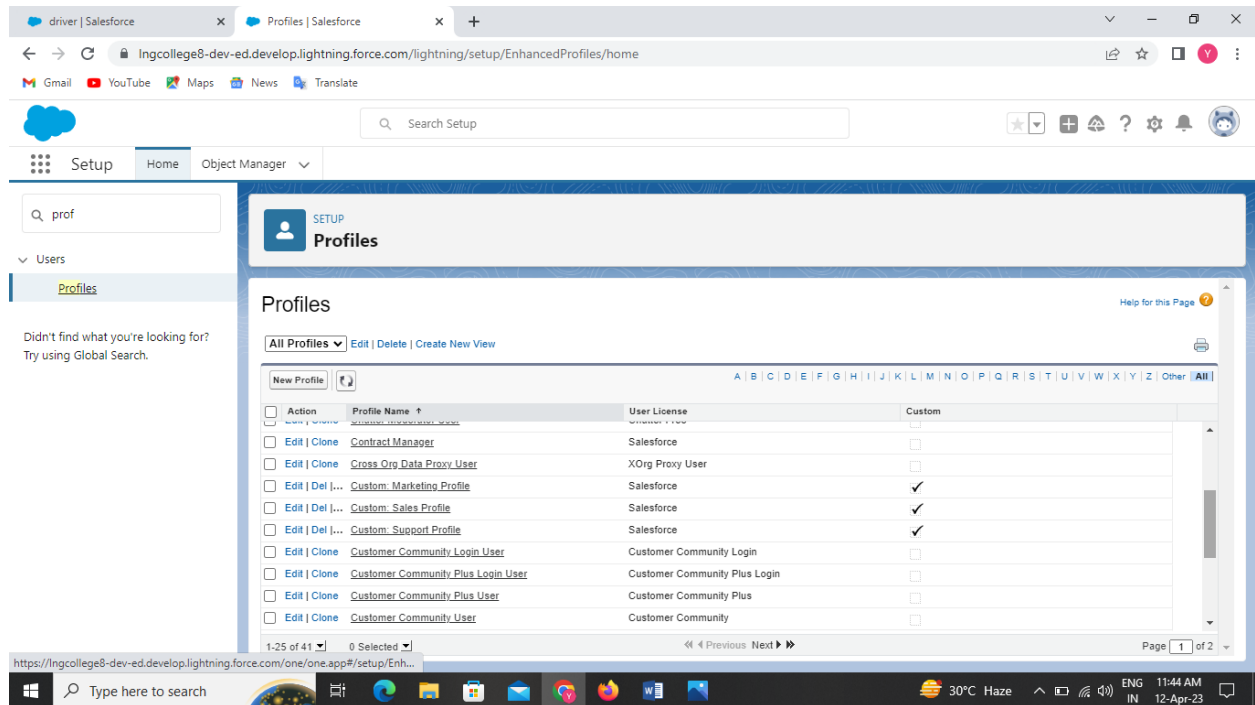
Type here to search

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Lightning App



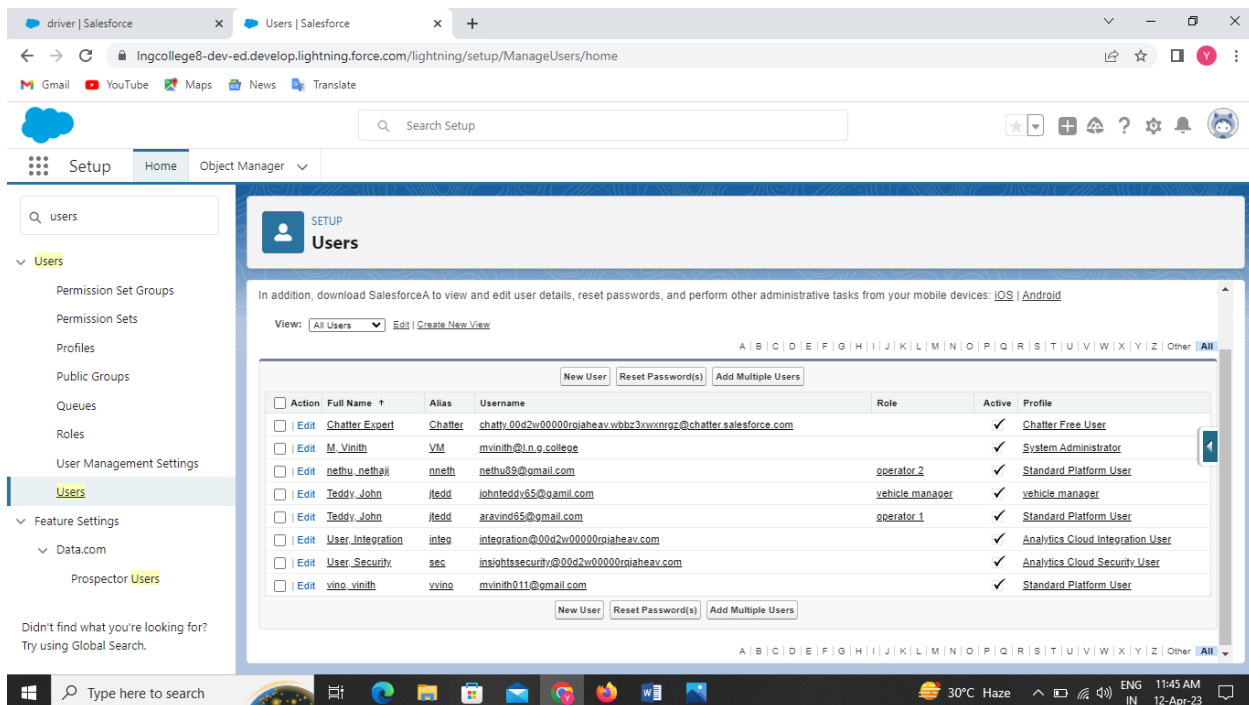
Profile



The screenshot shows the Salesforce Setup interface for Profiles. The left sidebar contains a search bar with 'prof' and a list of navigation items: Users, Profiles (selected), and a message 'Didn't find what you're looking for? Try using Global Search.' The main content area is titled 'Profiles' and includes a 'New Profile' button and a table of existing profiles. The table has columns for Action, Profile Name, User License, and Custom. The profiles listed are: Contract Manager (Salesforce), Cross Org Data Proxy User (XOrg Proxy User), Custom: Marketing Profile (Salesforce), Custom: Sales Profile (Salesforce), Custom: Support Profile (Salesforce), Customer Community Login User (Customer Community Login), Customer Community Plus Login User (Customer Community Plus Login), Customer Community Plus User (Customer Community Plus), and Customer Community User (Customer Community). The bottom of the screen shows a Windows taskbar with the date 12-Apr-23 and time 11:44 AM.

Action	Profile Name	User License	Custom
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"/>
Edit Del ...	Custom: Support Profile	Salesforce	<input checked="" type="checkbox"/>
Edit Clone	Customer Community Login User	Customer Community Login	<input type="checkbox"/>
Edit Clone	Customer Community Plus Login User	Customer Community Plus Login	<input type="checkbox"/>
Edit Clone	Customer Community Plus User	Customer Community Plus	<input type="checkbox"/>
Edit Clone	Customer Community User	Customer Community	<input type="checkbox"/>

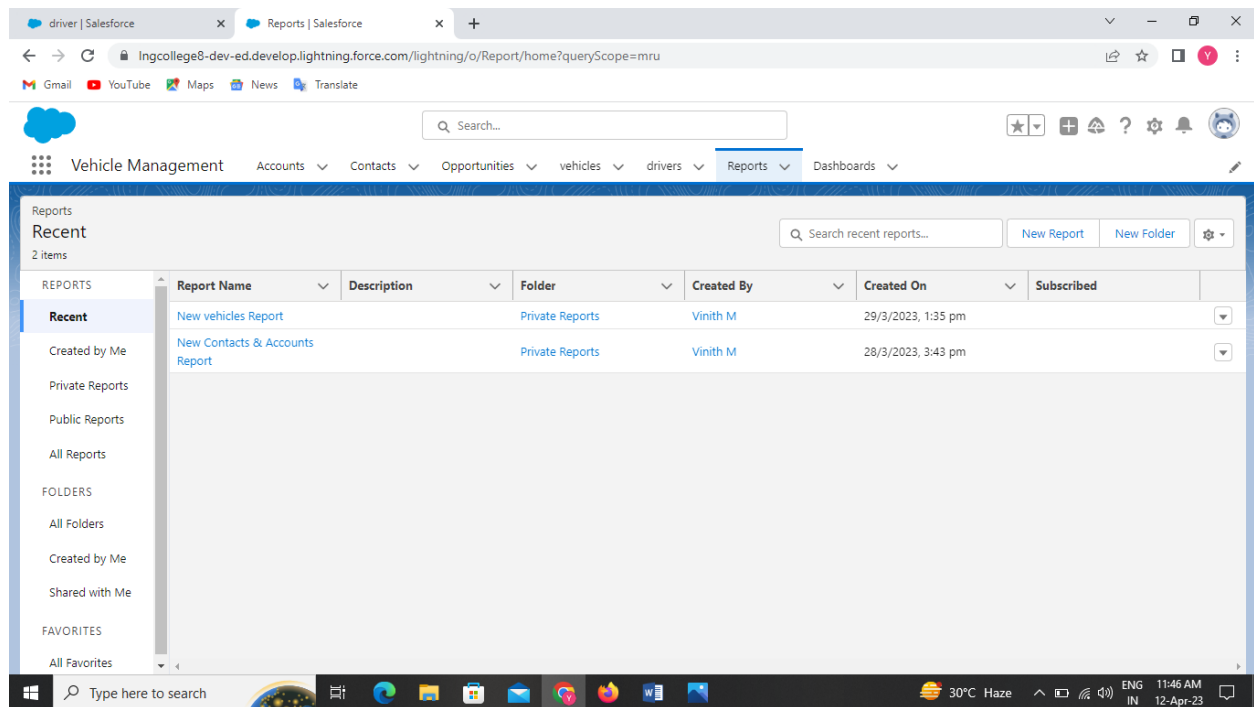
Users



The screenshot shows the Salesforce Setup interface for Users. The left sidebar contains a search bar with 'users' and a list of navigation items: Users (selected), Permission Set Groups, Permission Sets, Profiles, Public Groups, Queues, Roles, User Management Settings, Feature Settings, Data.com, and Prospector Users. The main content area is titled 'Users' and includes a message 'In addition, download SalesforceA to view and edit user details, reset passwords, and perform other administrative tasks from your mobile devices: iOS | Android'. Below this is a 'View: All Users' dropdown and a table of existing users. The table has columns for Action, Full Name, Alias, Username, Role, Active, and Profile. The users listed are: Chatter Expert (Chatter), M. Vinith (VM), nethu_nethai (neth), Teddv_John (Jtedd), Teddv_John (Jtedd), User_Integration (integ), User_Security (ses), and vino_vinith (vino). The bottom of the screen shows a Windows taskbar with the date 12-Apr-23 and time 11:45 AM.

Action	Full Name	Alias	Username	Role	Active	Profile
Edit	Chatter Expert	Chatter	chatty.0062ur00000@rolahev.wbbz3xvxnrgz@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
Edit	M. Vinith	VM	mvinith@u.n.9.college		<input checked="" type="checkbox"/>	System Administrator
Edit	nethu_nethai	neth	nethu89@gmail.com	operator 2	<input checked="" type="checkbox"/>	Standard Platform User
Edit	Teddv_John	Jtedd	johnledv65@gmail.com	vehicle manager	<input checked="" type="checkbox"/>	Vehicle manager
Edit	Teddv_John	Jtedd	aravind65@gmail.com	operator 1	<input checked="" type="checkbox"/>	Standard Platform User
Edit	User_Integration	integ	integration@0062ur00000@rolahev.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
Edit	User_Security	ses	insightssecurity@0062ur00000@rolahev.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User
Edit	vino_vinith	vino	mvinith011@gmail.com		<input checked="" type="checkbox"/>	Standard Platform User

Reports



driver | Salesforce x Reports | Salesforce x +

Ingcollege8-dev-ed.develop.lightning.force.com/lightning/o/Report/home?queryScope=mru

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Search...

Vehicle Management Accounts Contacts Opportunities vehicles drivers Reports Dashboards

Reports

Recent

2 items

Search recent reports... New Report New Folder

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	New vehicles Report		Private Reports	Vinith M	29/3/2023, 1:35 pm	
Created by Me	New Contacts & Accounts Report		Private Reports	Vinith M	28/3/2023, 3:43 pm	
Private Reports						
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

Type here to search

30°C Haze 11:46 AM 12-Apr-23

4.Trailhead Profile Public URL

Team Lead - <https://trailblazer.me/id/vinim30>

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

Team Member 2 - <https://trailblazer.me/id/arisp7>

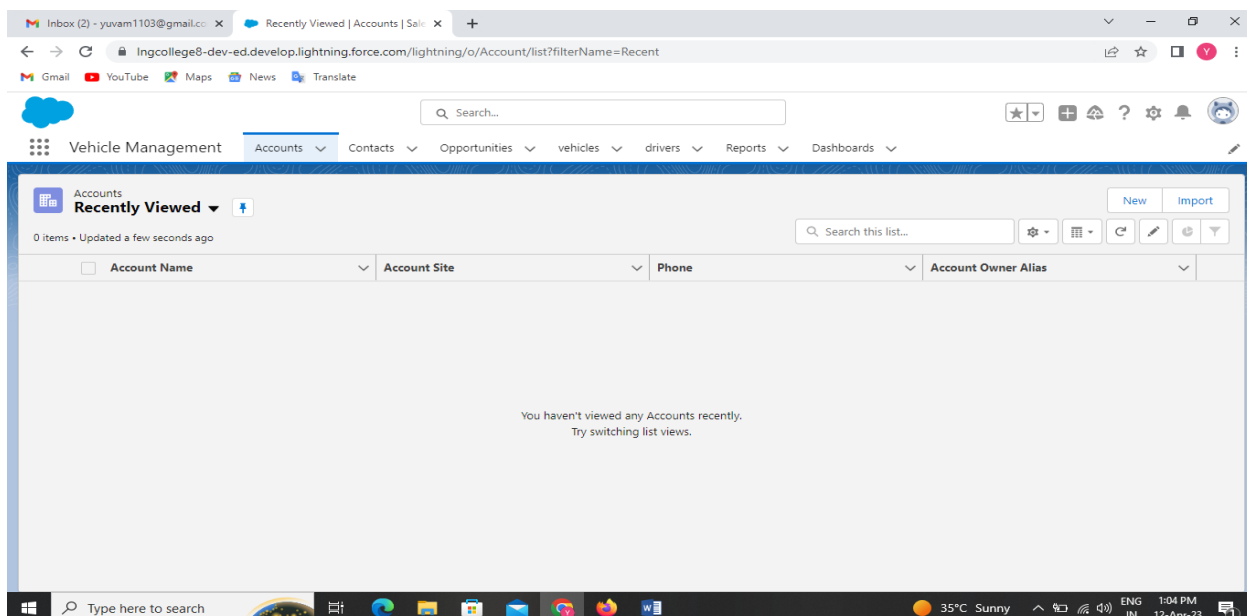
Team Member 3 - <https://trailblazer.me/id/cjoel8>

5. Advantages and Disadvantages

Advantage	Disadvantage
Highly efficient	Electricity storage is still expensive
Reduced emissions	Battery charging is time consuming
Very responsive and have very good torque	Range anxiety
High performance and low maintenance	Battery degradation costs
Simplified powertrain	Causes indirect pollution
Low electricity consumption	Are heavy due to overloaded batteries

6. Applications

We are all create vehicle management applications in salesforce platform. We enclosed the screenshot as follows



7. Conclusion

In this system the transport management, designed and developed a low cost system based on integration of GPS and Bee data is described. The system consists of different the modules which are linked wirelessly with Bee.

Cost effective Bee services is used for the transfer of data between the modules. A new service, to facilitate the people who use school buses or company cabs for traveling, is introduced.

The service provides the user with current location information of desired vehicle with locking system if it changes the usual way.

8. Future scope

The fleet management market is a rapidly growing industry that focuses on managing and optimizing commercial vehicle fleets. Fleet management includes a wide range of services, such as vehicle tracking, maintenance scheduling, driver management, and fuel efficiency monitoring.

The market is driven by factors such as increasing demand for real-time tracking and monitoring of commercial vehicles, rising fuel prices, and the need for efficient fleet management solutions.

Overall, the fleet management market is expected to continue growing as businesses increasingly adopt technology to optimize their operations and reduce costs. With the emergence of new technologies such as the internet of Things, artificial intelligence, and machine learning, the market is likely to see even more innovation and growth in the coming years.