

1 INTRODUCTION

1.1 Overview

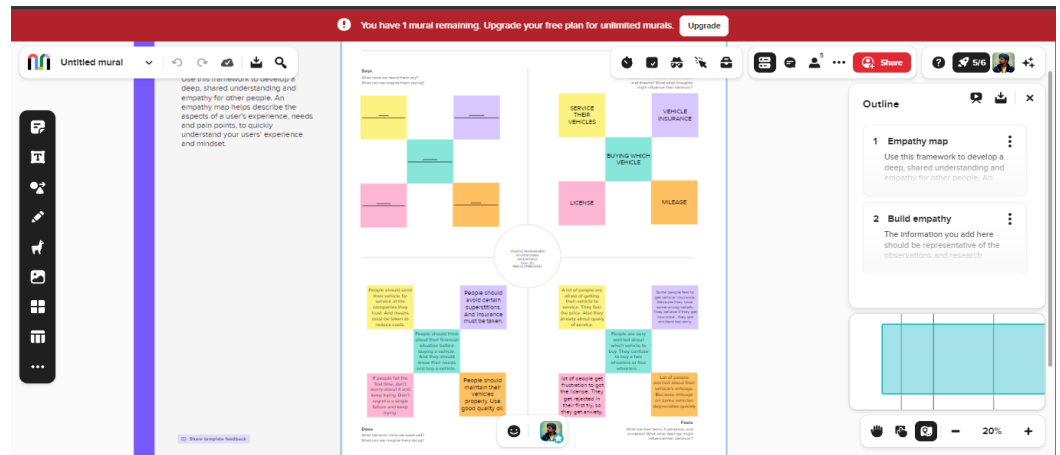
Vehicle Management is an application where a customer Details are stored in order to choose cars, bikes and commercial vehicles for travel within the city. The data which is stored here is further used to remind them if any offers are provided during the seasons and any updates regarding vehicles are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

1.2 Purpose

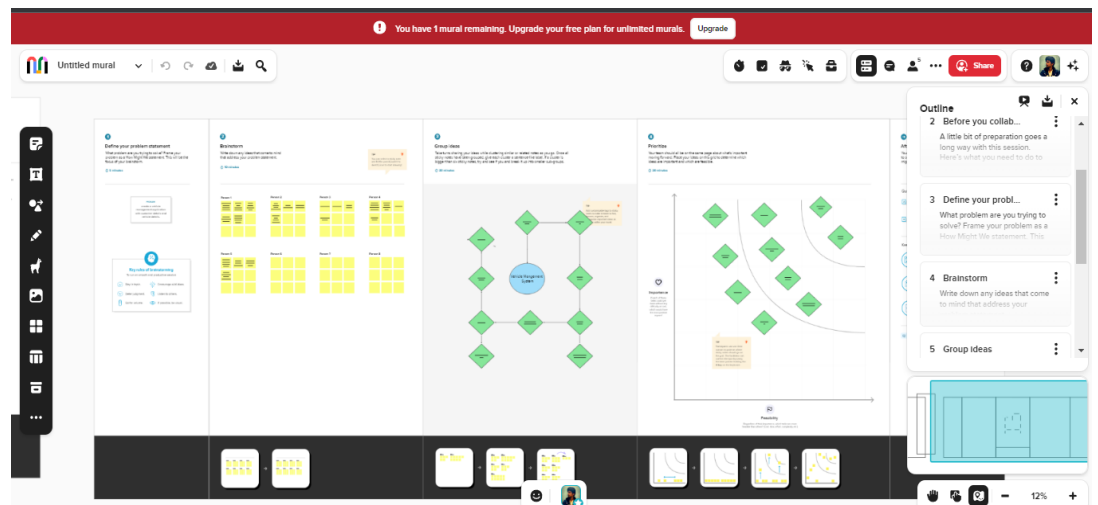
We use the Vehicle management app to store the customer details. Also we use this app to store the vehicle details. And this app used to create some about vehicle status.

2 Problem Definition & Design Thinking

2.1 Empathy Map



2.2 Ideation & Brainstorming Map



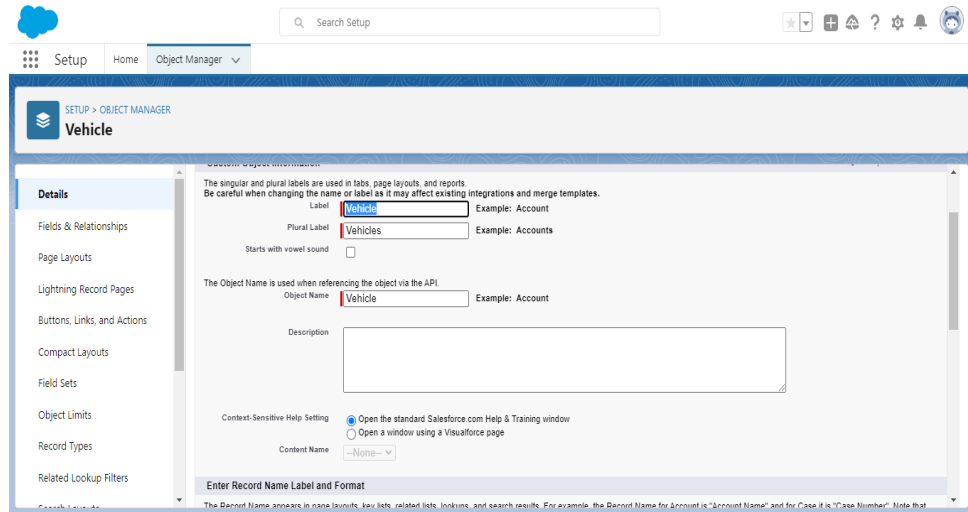
3 RESULT

3.1 Data Model:

Object name	Fields in the Object																																				
Vehicles	<table> <tr> <th>Field label</th><th>Data type</th></tr> <tr> <td>Customer Name</td><td>text</td></tr> <tr> <td>Customer Mobile No</td><td>Number</td></tr> <tr> <td>Vehicle Type i)2 wheeler ii)4 wheeler</td><td>Picklist</td></tr> <tr> <td>2WHEELERS i)HERO ii)HONDA iii)BAJAJ iv)ROYAL ENFIELD v)TVS vi)KINETIC vii)OLA viii)JAWA ix)SD x)BATTERY</td><td>Picklist</td></tr> <tr> <td>4WHEELERS i)RENAULT ii)SKODA iii)HONDA iv)HYUNDAI v)SUZUKI vi)MAHINDRA vii)VOLKSWAGEN viii)BENZ ix)AUDI x)VOLVO</td><td>Picklist</td></tr> <tr> <td>Vehicle Name</td><td>Text</td></tr> <tr> <td>Vehicle No</td><td>Text</td></tr> <tr> <td>Chassic No</td><td>Text</td></tr> <tr> <td>Colour</td><td>Text</td></tr> <tr> <td>Body Type</td><td>Text</td></tr> <tr> <td>Vehicle Includes i)Fire Extenuation ii)First Aid Kit iii)Multi Charger iv)Stepeny v)Stereo vi)Tool Kit vii)Tracking Device viii)Tyre Jack</td><td>Multi Picklist</td></tr> <tr> <td>Condition i)Good ii)Medium iii)Least</td><td>Picklist</td></tr> <tr> <td>Mileage</td><td>Text</td></tr> <tr> <td>Seats</td><td>Number</td></tr> <tr> <td>Start Date</td><td>Date/Time</td></tr> <tr> <td>End Date</td><td>Date/Time</td></tr> <tr> <td>Opportunity</td><td>Lookup(opportunities)</td></tr> </table>	Field label	Data type	Customer Name	text	Customer Mobile No	Number	Vehicle Type i)2 wheeler ii)4 wheeler	Picklist	2WHEELERS i)HERO ii)HONDA iii)BAJAJ iv)ROYAL ENFIELD v)TVS vi)KINETIC vii)OLA viii)JAWA ix)SD x)BATTERY	Picklist	4WHEELERS i)RENAULT ii)SKODA iii)HONDA iv)HYUNDAI v)SUZUKI vi)MAHINDRA vii)VOLKSWAGEN viii)BENZ ix)AUDI x)VOLVO	Picklist	Vehicle Name	Text	Vehicle No	Text	Chassic No	Text	Colour	Text	Body Type	Text	Vehicle Includes i)Fire Extenuation ii)First Aid Kit iii)Multi Charger iv)Stepeny v)Stereo vi)Tool Kit vii)Tracking Device viii)Tyre Jack	Multi Picklist	Condition i)Good ii)Medium iii)Least	Picklist	Mileage	Text	Seats	Number	Start Date	Date/Time	End Date	Date/Time	Opportunity	Lookup(opportunities)
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Opportunity	Lookup(opportunities)																																				
Drivers	<table> <tr> <th>Field label</th><th>Data type</th></tr> <tr> <td>Driver Name</td><td>Text</td></tr> <tr> <td>Licence No</td><td>Text</td></tr> <tr> <td>Mobile No</td><td>Number</td></tr> <tr> <td>Fair Per Hour</td><td>Text</td></tr> <tr> <td>Vehicle</td><td>Lookup(Vehicle)</td></tr> </table>	Field label	Data type	Driver Name	Text	Licence No	Text	Mobile No	Number	Fair Per Hour	Text	Vehicle	Lookup(Vehicle)																								
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Vehicle	Lookup(Vehicle)																																				

3.2 Activity & Screenshot

1. OBJECTS

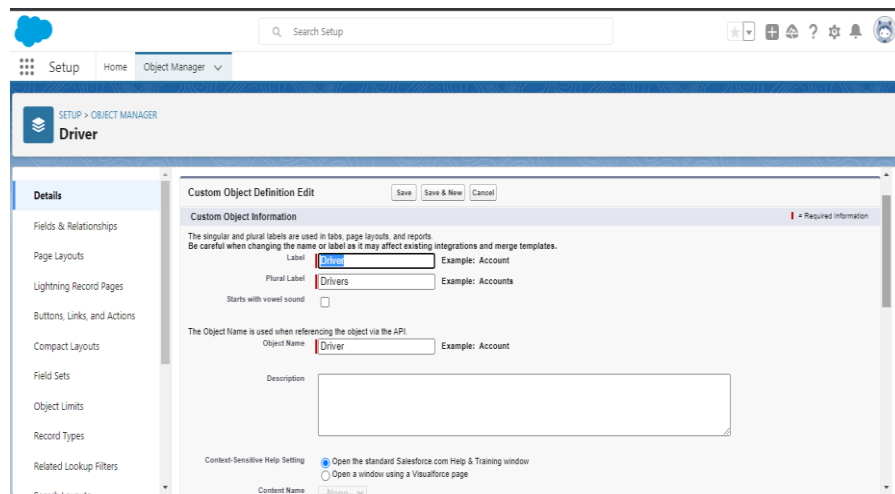


The screenshot shows the 'Vehicle' object configuration page in Salesforce Setup. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main content area is titled 'Vehicle' and includes a 'Details' section with the following fields:

- Label:** Vehicle (Example: Account)
- Plural Label:** Vehicles (Example: Accounts)
- Starts with vowel sound:** ☐
- Object Name:** Vehicle (Example: Account)
- Description:** (Empty text area)
- Context-Sensitive Help Setting:** ☒ Open the standard Salesforce.com Help & Training window
- Content Name:** --None--

Below the details section is the 'Enter Record Name Label and Format' section, which includes a note about the Record Name appearing in page layouts, key lists, related lists, lookups, and search results.

First create a Vehicle Object with given details.



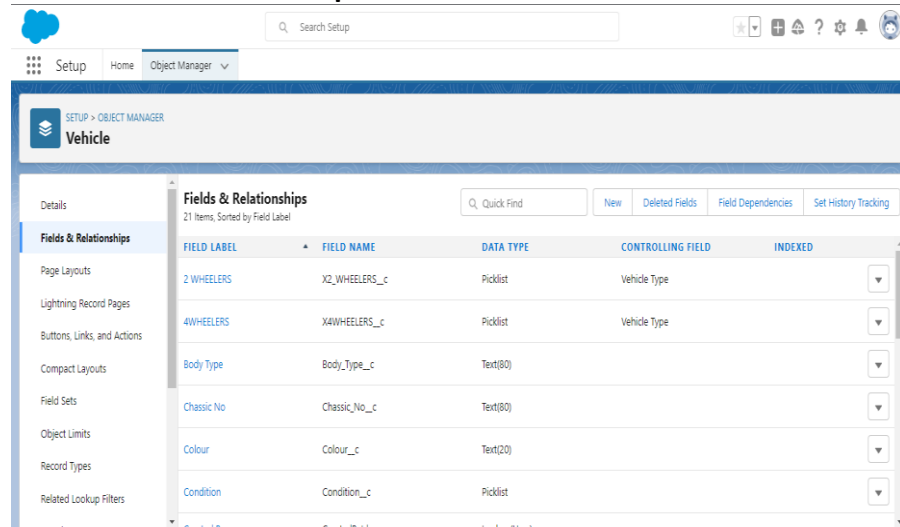
The screenshot shows the 'Driver' object configuration page in Salesforce Setup. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main content area is titled 'Driver' and includes a 'Details' section with the following fields:

- Label:** Driver (Example: Account)
- Plural Label:** Drivers (Example: Accounts)
- Starts with vowel sound:** ☐
- Object Name:** Driver (Example: Account)
- Description:** (Empty text area)
- Context-Sensitive Help Setting:** ☒ Open the standard Salesforce.com Help & Training window
- Content Name:** --None--

Below the details section is the 'Enter Record Name Label and Format' section, which includes a note about the Record Name appearing in page layouts, key lists, related lists, lookups, and search results.

Next, similarly create Driver Object.

2.Fields and Relationship



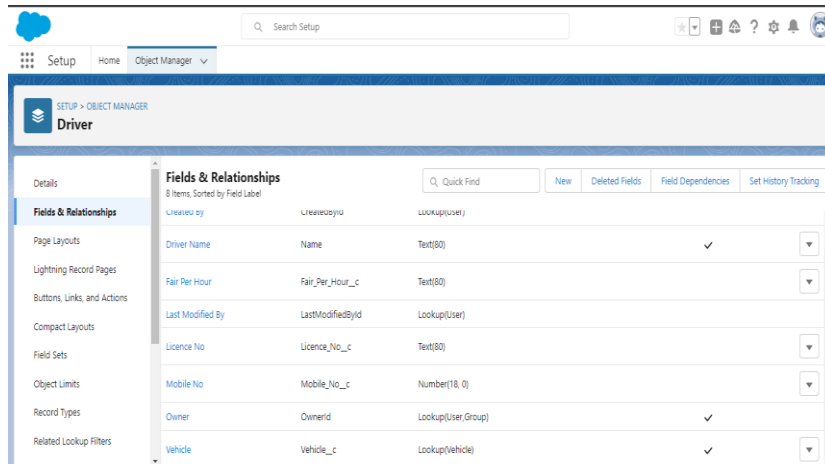
The screenshot shows the 'Vehicle' object configuration page in Salesforce Setup, specifically the 'Fields & Relationships' section. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main content area is titled 'Vehicle' and includes a 'Fields & Relationships' section with the following table:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
2 WHEELERS	X2_WHEELERS_c	Picklist	Vehicle Type	<input type="checkbox"/>
4WHEELERS	X4WHEELERS_c	Picklist	Vehicle Type	<input type="checkbox"/>
Body Type	Body_Type_c	Text(80)		<input type="checkbox"/>
Chassis No	Chassis_No_c	Text(80)		<input type="checkbox"/>
Colour	Colour_c	Text(20)		<input type="checkbox"/>
Condition	Condition_c	Picklist		<input type="checkbox"/>

Below the table is the 'Created By' field, which is currently empty.

Next, Create fields above given in the Vehicle Object.

Project Report Template



Setup > OBJECT MANAGER

Driver

Details

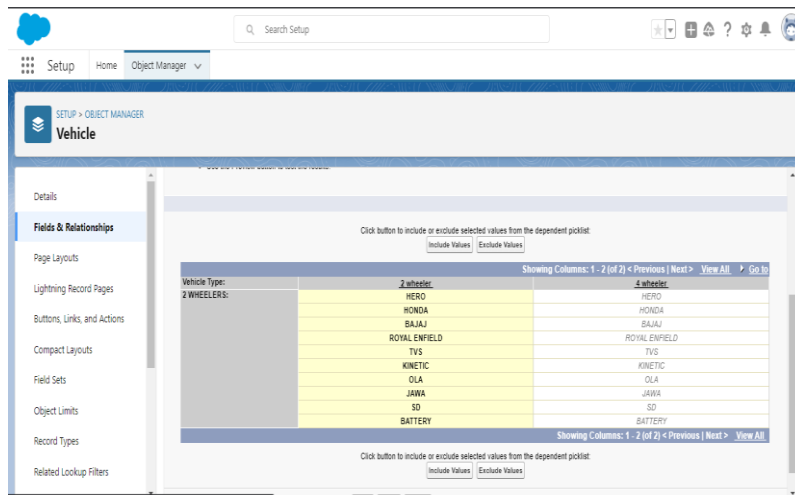
Fields & Relationships

8 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Field Label	Field Name	Field Type	Field Length	Field Format	Field Options
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)			✓
Vehicle	Vehicle_c	Lookup(Vehicle)			✓

Similarly, create a above given fields in Driver Object.



Setup > OBJECT MANAGER

Vehicle

Details

Fields & Relationships

Click button to include or exclude selected values from the dependent picklist

Include Values Exclude Values

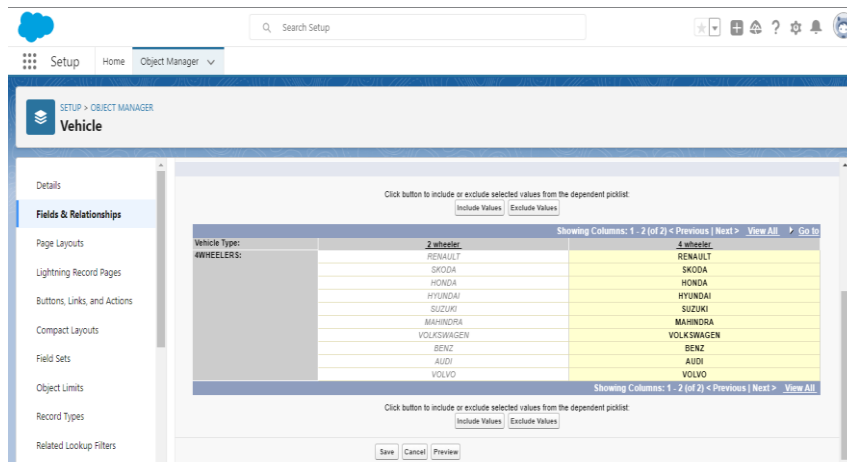
Vehicle Type	2 Wheeler	4 Wheeler
2 WHEELERS:	HERO	HERO
	HONDA	HONDA
	BAJAJ	BAJAJ
	ROYAL ENFIELD	ROYAL ENFIELD
	TVS	TVS
	KINETIC	KINETIC
	OLA	OLA
	JAWA	JAWA
	SD	SD
	BATTERY	BATTERY

Showing Columns: 1 - 2 (of 2) < Previous | Next > View All Go to

Click button to include or exclude selected values from the dependent picklist

Include Values Exclude Values

Next, Create Field dependency between 2 Wheeler and 2 Wheeler Brands.



Setup > OBJECT MANAGER

Vehicle

Details

Fields & Relationships

Click button to include or exclude selected values from the dependent picklist

Include Values Exclude Values

Vehicle Type	2 Wheeler	4 Wheeler
2 WHEELERS:	RENAULT	RENAULT
	SKODA	SKODA
	HONDA	HONDA
	HYUNDAI	HYUNDAI
	SUZUKI	SUZUKI
	MAHINDRA	MAHINDRA
	VOLKSWAGEN	VOLKSWAGEN
	BENZ	BENZ
	AUDI	AUDI
	VOLVO	VOLVO

Showing Columns: 1 - 2 (of 2) < Previous | Next > View All

Click button to include or exclude selected values from the dependent picklist

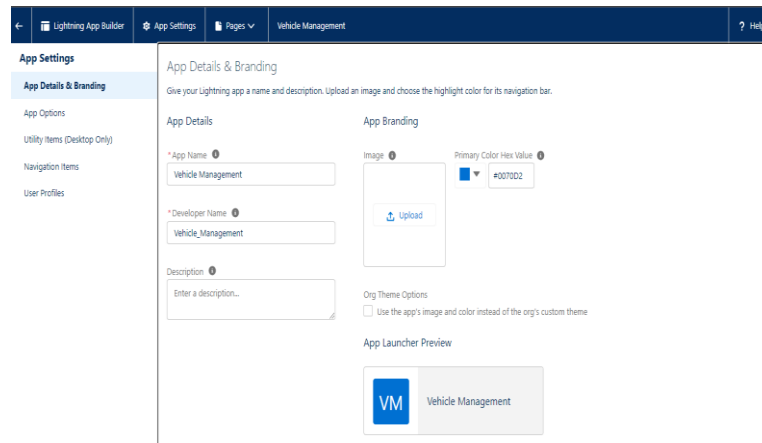
Include Values Exclude Values

Save Cancel Preview

Similarly, create field dependency between 4 Wheelers and 4 Wheeler Brands.

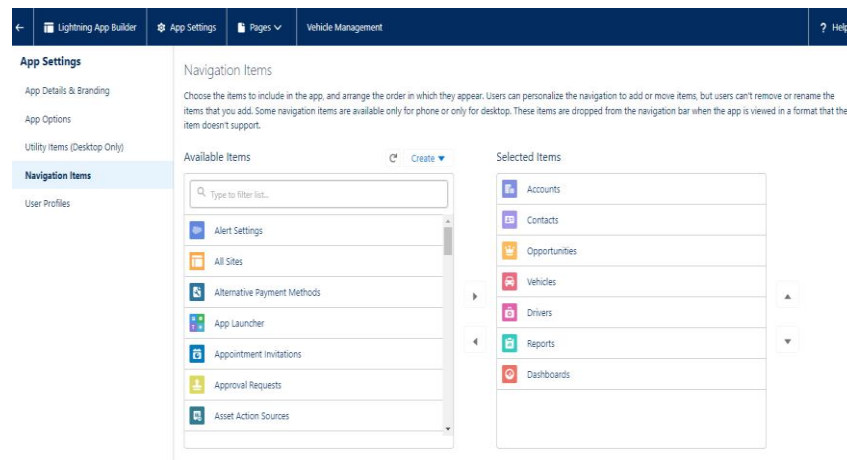
4. Lightning App

Go to App Manager and click New Lightning App



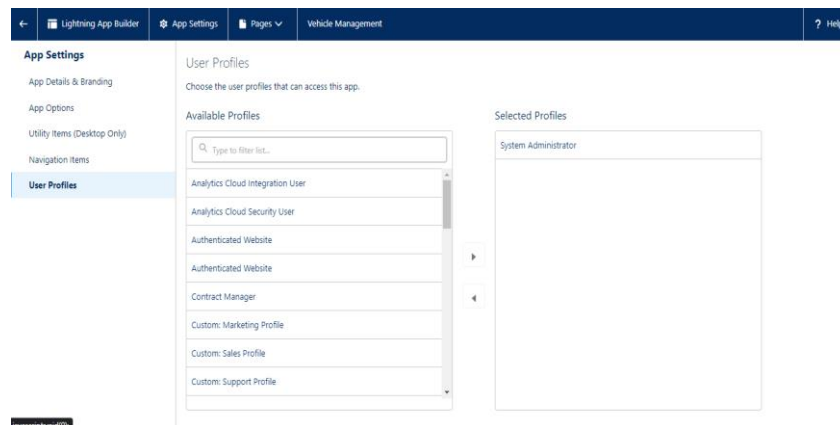
The screenshot shows the 'App Details & Branding' section of the Lightning App Builder. The left sidebar lists 'App Settings' with sub-items: 'App Details & Branding' (selected), 'App Options', 'Utility Items (Desktop Only)', 'Navigation Items', and 'User Profiles'. The main content area is titled 'App Details & Branding' and includes instructions: 'Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.' It contains two columns: 'App Details' and 'App Branding'. Under 'App Details', there are fields for 'App Name' (filled with 'Vehicle Management'), 'Developer Name' (filled with 'Vehicle_Management'), and 'Description' (placeholder 'Enter a description...'). Under 'App Branding', there is an 'Image' upload button, a 'Primary Color Hex Value' field (filled with '#0070C2'), and an 'App Launcher Preview' showing a blue square with 'VM' and the text 'Vehicle Management'. There is also an 'Org Theme Options' checkbox.

Next, Enter Vehicle Management as the App Name and enter the Given details.



The screenshot shows the 'Navigation Items' section of the Lightning App Builder. The left sidebar is the same as the previous screenshot, with 'Navigation Items' selected. The main content area is titled 'Navigation Items' and includes instructions: 'Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.' It contains two columns: 'Available Items' and 'Selected Items'. 'Available Items' has a search bar and a list of items including 'Alert Settings', 'All Sites', 'Alternative Payment Methods', 'App Launcher', 'Appointment Invitations', 'Approval Requests', and 'Asset Action Sources'. 'Selected Items' has a list of items including 'Accounts', 'Contacts', 'Opportunities', 'Vehicles', 'Drivers', 'Reports', and 'Dashboards'.

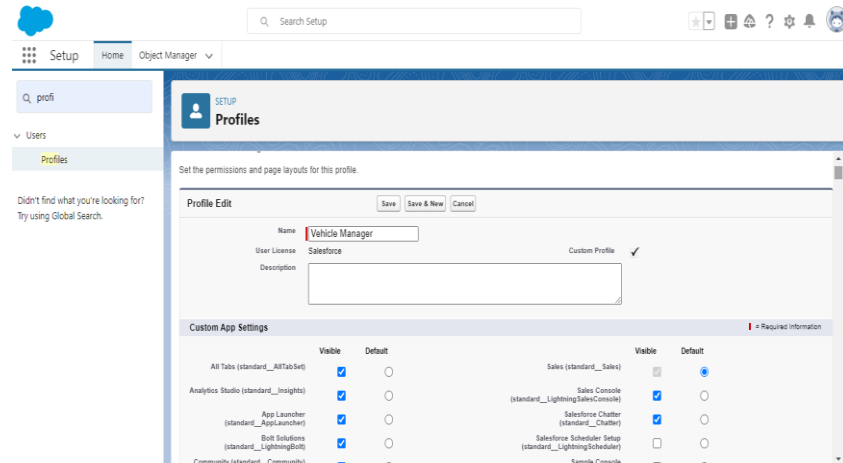
Next, Add navigations items from the available items.



The screenshot shows the 'User Profiles' section of the Lightning App Builder. The left sidebar is the same as the previous screenshots, with 'User Profiles' selected. The main content area is titled 'User Profiles' and includes instructions: 'Choose the user profiles that can access this app.' It contains two columns: 'Available Profiles' and 'Selected Profiles'. 'Available Profiles' has a search bar and a list of profiles including 'Analytics Cloud Integration User', 'Analytics Cloud Security User', 'Authenticated Website', 'Authenticated Website', 'Contract Manager', 'Custom: Marketing Profile', 'Custom: Sales Profile', and 'Custom: Support Profile'. 'Selected Profiles' has a list of profiles including 'System Administrator'.

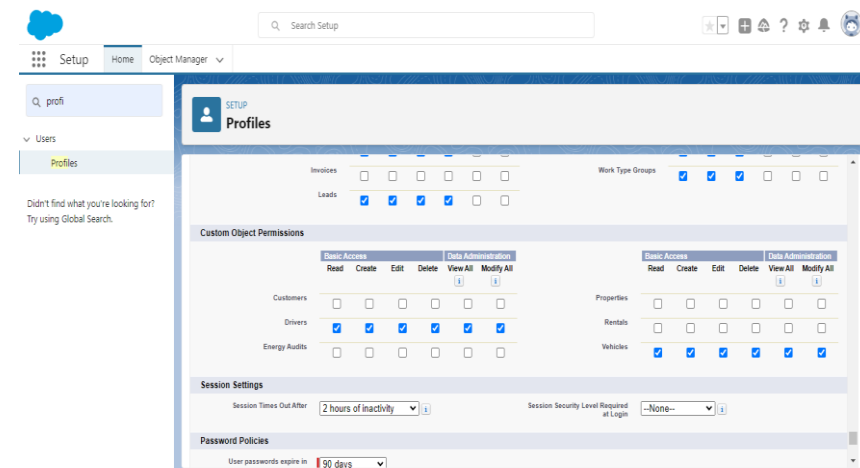
Next, Add System Administrator from the available profiles.

5. Profile



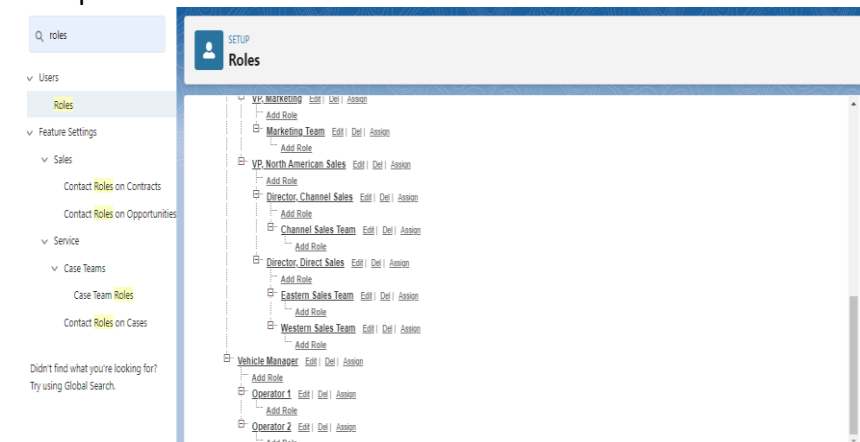
Go to profiles and click new.

Next, Create a Vehicle Manger Profile.



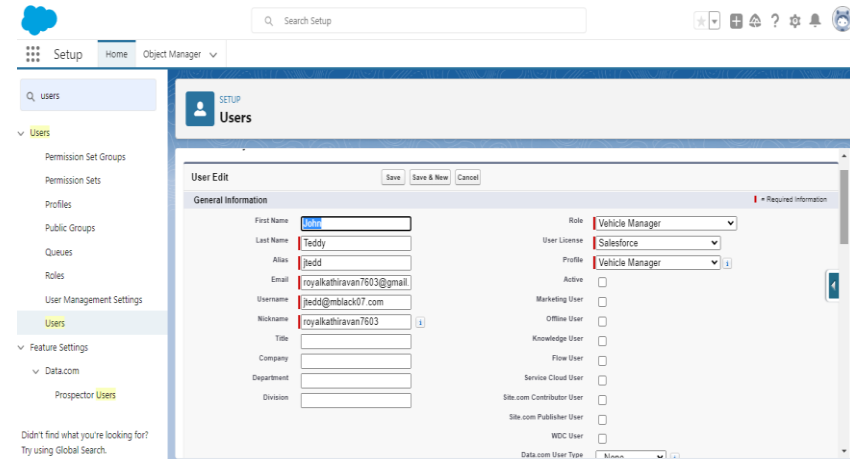
And give access to the given permissions. Similarly, Create two roles Operator 1 and Operator 2.

Setup Roles:



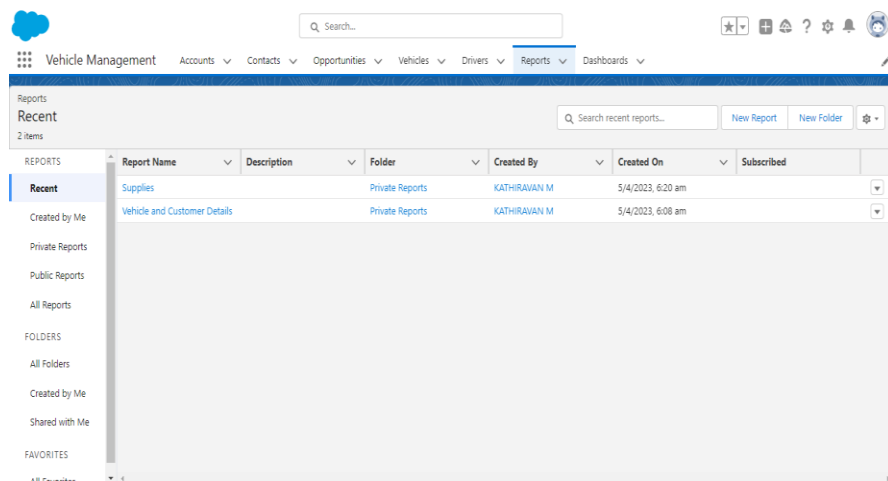
Go to Roles and Click Add role under the CEO , next fill up the label As Vehicle Manager. Similarly, create a roles to Operator 1 and Operator 2 to reports to Vehicle Manager.

6. Users



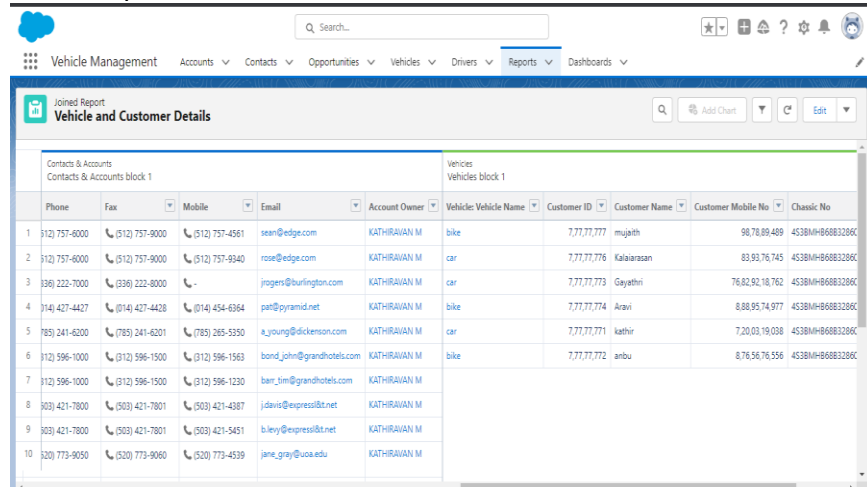
Go to users and click new. Next, enter the user's name John Teddy. And select a Role(Vehicle Manager) and select profile as vehicle Manager. Now click save it.

7. Reports



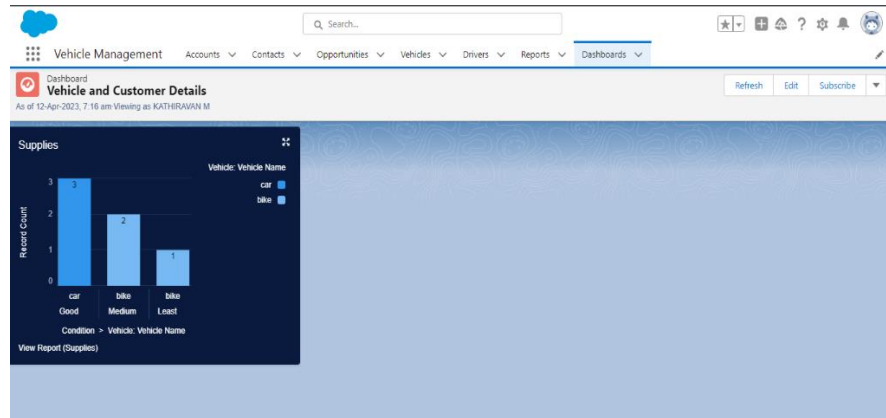
Report Name	Description	Folder	Created By	Created On	Subscribed
Supplies		Private Reports	KATHIRAVAN M	5/4/2023, 6:20 am	
Vehicle and Customer Details		Private Reports	KATHIRAVAN M	5/4/2023, 6:08 am	

Go to Reports and click new.

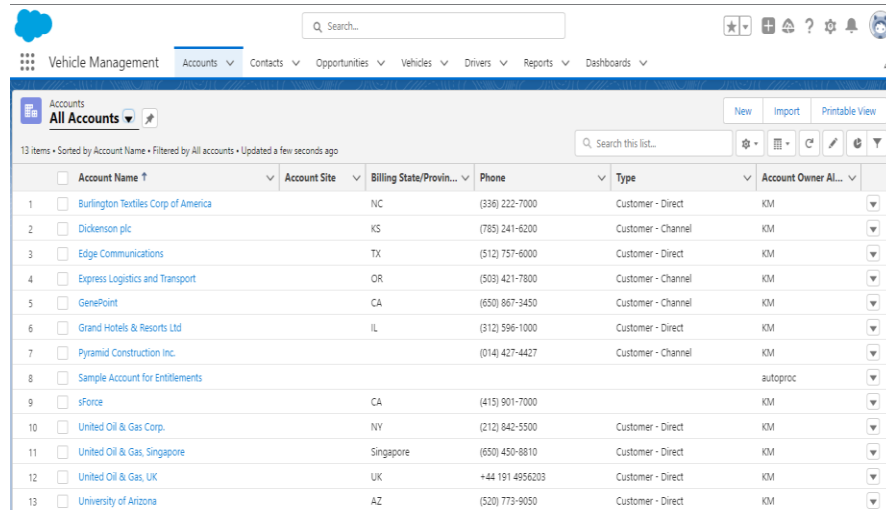


Phone	Fax	Mobile	Email	Account Owner	Vehicle: Vehicle Name	Customer ID	Customer Name	Customer Mobile No	Chassis No
312 757-4000	(512) 757-9000	(512) 757-4561	sean@edge.com	KATHIRAVAN M	bike	7,77,77,777	mujath	98,78,89,489	4538MH-B6883286C
312 757-4000	(512) 757-9000	(512) 757-9940	rose@edge.com	KATHIRAVAN M	car	7,77,77,776	Kalalassan	83,93,76,745	4538MH-B6883286C
336 222-7000	(336) 222-8000		jngers@burlington.com	KATHIRAVAN M	car	7,77,77,773	Gayathri	76,82,92,18,762	4538MH-B6883286C
714 427-4427	(014) 427-4428	(014) 454-6364	pat@pyramid.net	KATHIRAVAN M	bike	7,77,77,774	Aravi	8,88,95,74,977	4538MH-B6883286C
785 241-6200	(785) 241-6201	(785) 265-5550	a_young@dickeon.com	KATHIRAVAN M	car	7,77,77,771	kathir	7,20,03,19,038	4538MH-B6883286C
312 596-1000	(312) 596-1500	(312) 596-1563	bond_john@grandhotels.com	KATHIRAVAN M	bike	7,77,77,772	anbu	8,76,56,76,556	4538MH-B6883286C
712 596-1000	(312) 596-1500	(312) 596-1230	baw_tim@grandhotels.com	KATHIRAVAN M					
303 421-7800	(503) 421-7801	(503) 421-4387	j.davis@expresslbt.net	KATHIRAVAN M					
303 421-7800	(503) 421-7801	(503) 421-5451	b.levy@expresslbt.net	KATHIRAVAN M					
320 773-9050	(520) 773-9060	(520) 773-4539	jane_gray@uoa.edu	KATHIRAVAN M					

Next, select accounts, contacts and Vehicle report type. Next, Add columns and filters . Next, click save and run. Now name The Report as Vehicle and Customer Details.



Now, go to dashboards and click new. Next, name the dashboard as Vehicle and Customer Details. Now click new component. Next select Supplies report and select component type and click Add.



The screenshot shows a table titled 'Accounts' with 13 items. The table has columns for Account Name, Account Site, Billing State/Provin..., Phone, Type, and Account Owner AL... The table is sorted by Account Name and filtered by All accounts. The data is as follows:

	Account Name	Account Site	Billing State/Provin...	Phone	Type	Account Owner AL...
1	Burlington Textiles Corp of America		NC	(336) 222-7000	Customer - Direct	KM
2	Dickenson plc		KS	(785) 241-6200	Customer - Channel	KM
3	Edge Communications		TX	(512) 757-6000	Customer - Direct	KM
4	Express Logistics and Transport		OR	(503) 421-7800	Customer - Channel	KM
5	GenePoint		CA	(650) 867-3450	Customer - Channel	KM
6	Grand Hotels & Resorts Ltd		IL	(312) 596-1000	Customer - Direct	KM
7	Pyramid Construction Inc.			(014) 427-4427	Customer - Channel	KM
8	Sample Account for Entitlements					autoproc
9	sForce		CA	(415) 901-7000		KM
10	United Oil & Gas Corp.		NY	(212) 842-5500	Customer - Direct	KM
11	United Oil & Gas, Singapore		Singapore	(650) 450-8810	Customer - Direct	KM
12	United Oil & Gas, UK		UK	+44 191 4956203	Customer - Direct	KM
13	University of Arizona		AZ	(520) 773-9050	Customer - Direct	KM

Finally, The Vehicle Management App is created.

4 Trailhead Profile Public URL

Team lead- <https://trailblazer.me/id/mkathiravanem>

Team member 1- <https://trailblazer.me/id/aravi12up>

Team member 2- <https://trailblazer.me/id/anbup2>

Team member 3- <https://trailblazer.me/id/kkalaiiarasan>

Team member 4- <https://trailblazer.me/id/mmujaith>

5 ADVANTAGES & DISADVANTAGE

ADVANTAGES:

- Vehicle Management App is reduce the work load to the company.
- This App also used to store large amount data about the Vehicles.
- While use this App easy to get the details of the vehicle and customers.

DISADVANTAGES:

- The stored data is not sure to true.
- Sometimes the fake data are stored.

6 APPLICATIONS

- We use this app in Vehicle companies and Sales shops.
- Also use this app in Vehicle service centres.

7 CONCLUSION

We create a Vehicle Management App for store the vehicle and customer details. This is used to reduce the work load to the employees. And get the details in easy way.

8 FUTURE SCOPE

We had some enhancements like Vehicle current status view, Vehicle 3D view Customer service via video call.