

VEHICLE MANAGEMENT SYSTEM USING SALESFORCE

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.

It is a windows application written for 32-bit windows operating systems which focused in the area of adding, editing and deleting the passengers, staff and the bus routes.

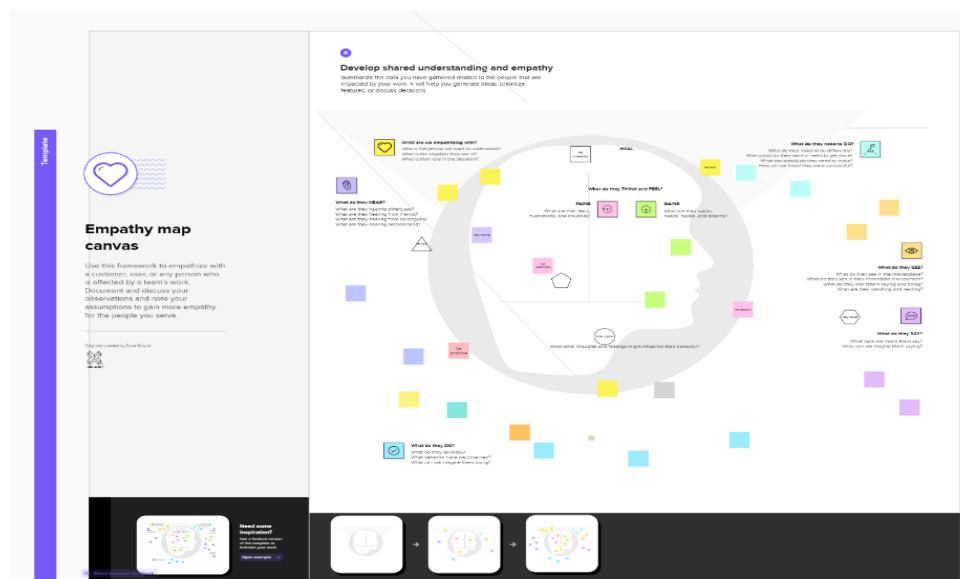
In this software a person can be register as a user and he/she can manage the bus routes and the staff, passengers details.

1.2 Purpose

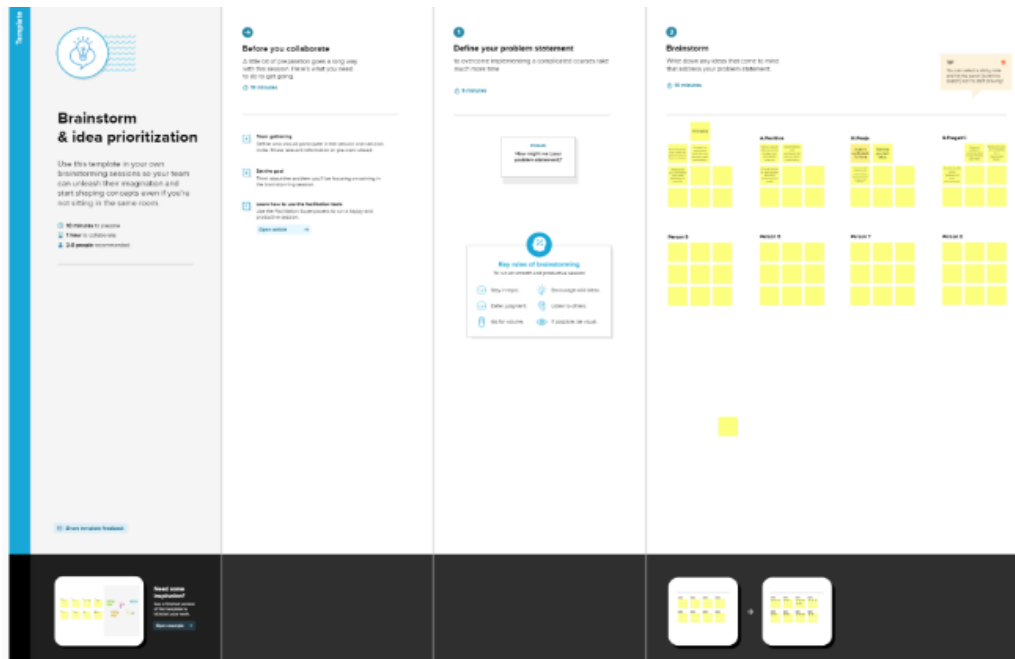
To ensure they're utilized safely, efficiently and professionally, while making sure they're well maintained and high-performing.

2. PROBLEM DEFINITION AND DESIGN THINKING

2.1 Empathy Map



2.2 Ideation and Brainstorming Map

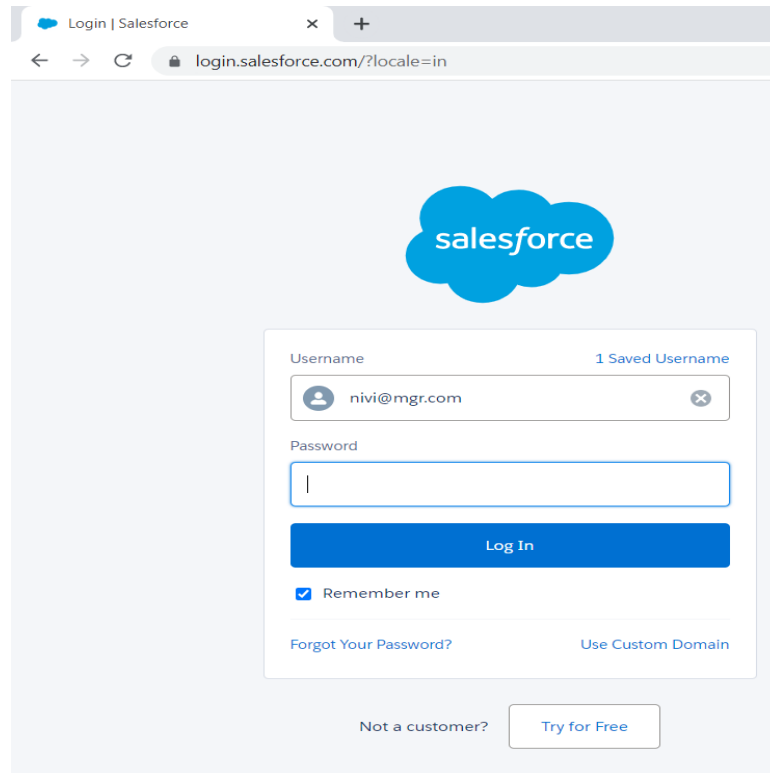


3. RESULT

3.1 Data Model

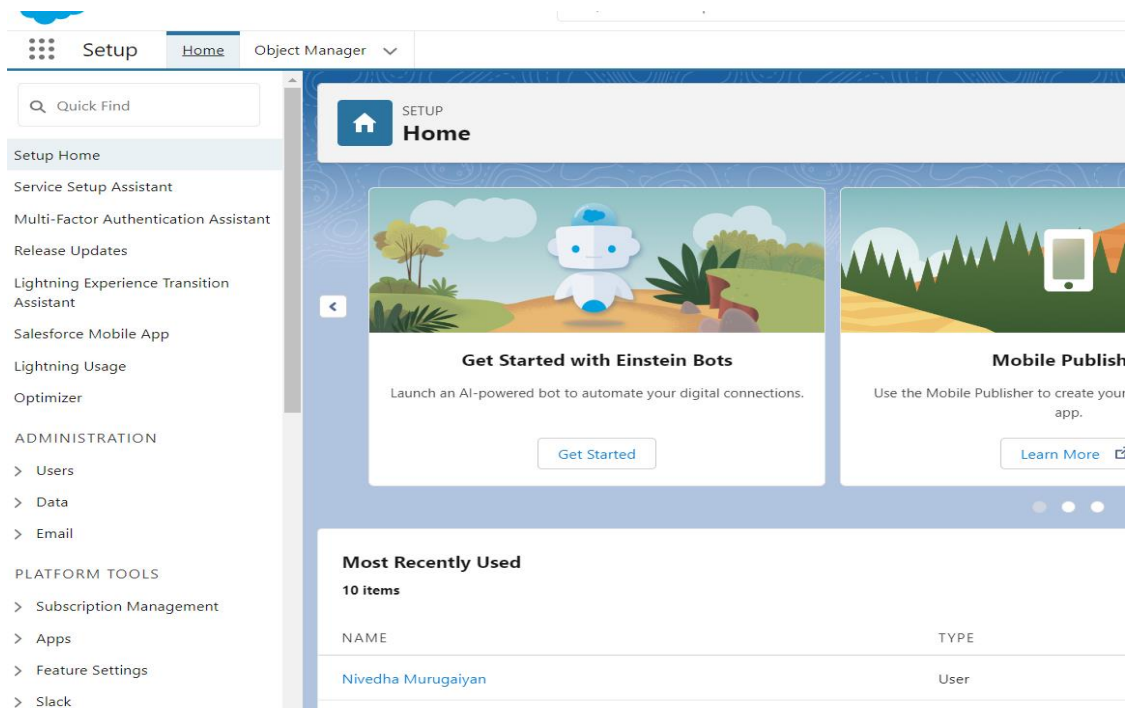
OBJECT NAME	FIELDS IN THE OBJECT	
	FIELD LABEL	DATA TYPE
Object 1	Customer Name	Text
Object 2	Customer Mobile No	Number
Object 3	Vehicle Name	Text
Object 4	Vehicle No	Text
Object 5	Classic No	Text
Object 6	Driver Name	Text

3.2 Activity and Screenshot



The screenshot shows the Salesforce login page in a web browser. The browser's address bar displays "login.salesforce.com/?locale=in". The page features the Salesforce logo at the top. Below the logo is a login form with the following elements:

- Username:** A text input field containing "nivi@mgr.com". To the right of the field, it says "1 Saved Username".
- Password:** A password input field with a single character visible.
- Log In:** A prominent blue button.
- Remember me:** A checked checkbox.
- Forgot Your Password?:** A link below the password field.
- Use Custom Domain:** A link to the right of the "Forgot Your Password?" link.
- Not a customer?:** A link at the bottom of the form.
- Try for Free:** A button next to the "Not a customer?" link.



The screenshot shows the Salesforce Setup Home page. The left sidebar contains a navigation menu with the following sections:

- Setup Home**
 - Service Setup Assistant
 - Multi-Factor Authentication Assistant
 - Release Updates
 - Lightning Experience Transition Assistant
 - Salesforce Mobile App
 - Lightning Usage
 - Optimizer
- ADMINISTRATION**
 - > Users
 - > Data
 - > Email
- PLATFORM TOOLS**
 - > Subscription Management
 - > Apps
 - > Feature Settings
 - > Slack

The main content area is titled "SETUP Home" and features two large cards:

- Get Started with Einstein Bots:** Includes the text "Launch an AI-powered bot to automate your digital connections." and a "Get Started" button.
- Mobile Publish:** Includes the text "Use the Mobile Publisher to create your app." and a "Learn More" button.

Below these cards is a section titled "Most Recently Used" with a sub-header "10 items". It contains a table with the following data:

NAME	TYPE
Nivedha Murugaiyan	User

Setup | Salesforce

dmrgovernmentartsandscie5-dev-ed.develop.lightning.force.com/lightning/setup/CustomTabs/page?address=%2F01r2w000001dAnPAU%3FretURL%3D%252F...

Search Setup

Setup Home

Service Setup Assistant

Multi-Factor Authentication Assistant

Release Updates

Lightning Experience Transition Assistant

Salesforce Mobile App

Lightning Usage

Optimizer

ADMINISTRATION

> Users

> Data

> Email

PLATFORM TOOLS

> Subscription Management

SETUP Tabs

Custom Object Tab

Vehicles

Below is the information for the custom tab. Click Edit to change the custom tab.

Help for this Page

Custom Tab Definition Detail

Edit Delete

Tab Label	Vehicles	Tab Style	Fixed
Object	Vehicle	Splash Page Custom Link	
Description			
Created By	Nivedha Murugaian, 21/03/2023, 3:52 pm	Modified By	Nivedha Murugaian, 21/03/2023, 3:52 pm

Vehicle | Salesforce

dmrgovernmentartsandscie5-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/012w000003FNXa/Details/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER Vehicle

Edit Delete

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Details

Description

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

Setup Home Object Manager

Search Setup

driver object

driver object Custom Field

2 wheelers

Back to driver object

Validation Rules (0)

Custom Field Definition Detail

Edit Set Field-Level Security View Field Accessibility Where is this used?

Field Information

Field Label	2 wheelers	Object Name	driver object
Field Name	wheelers_2	Data Type	Picklist
API Name	wheelers_2__c		
Description	HERO HONDA ROYAL ENFIELD OLA BAJAJ TVS		
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Nivedha Murugapalan, 26/03/2023, 10:14 am	Modified By	Nivedha Murugapalan, 26/03/2023, 10:23 am

General Options

Required	<input type="checkbox"/>
Default Value	1

Picklist Options

driver object

driver object Custom Field

4 wheelers

Back to driver object

Validation Rules (0)

Custom Field Definition Detail

Edit Set Field-Level Security View Field Accessibility Where is this used?

Field Information

Field Label	4 wheelers	Object Name	driver object
Field Name	wheelers_4	Data Type	Picklist
API Name	wheelers_4__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Nivedha Murugapalan, 26/03/2023, 10:15 am	Modified By	Nivedha Murugapalan, 26/03/2023, 10:15 am

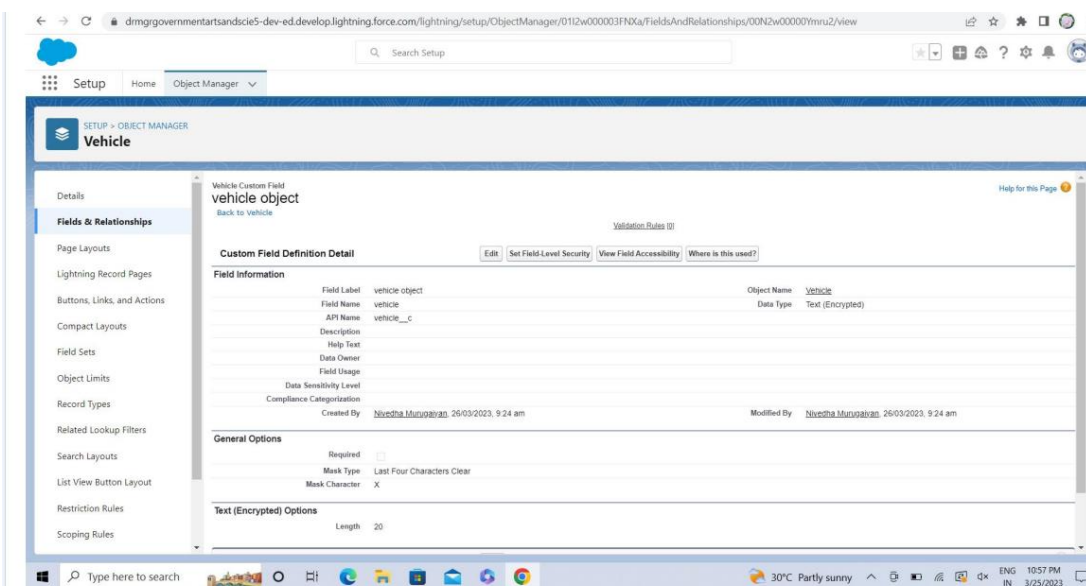
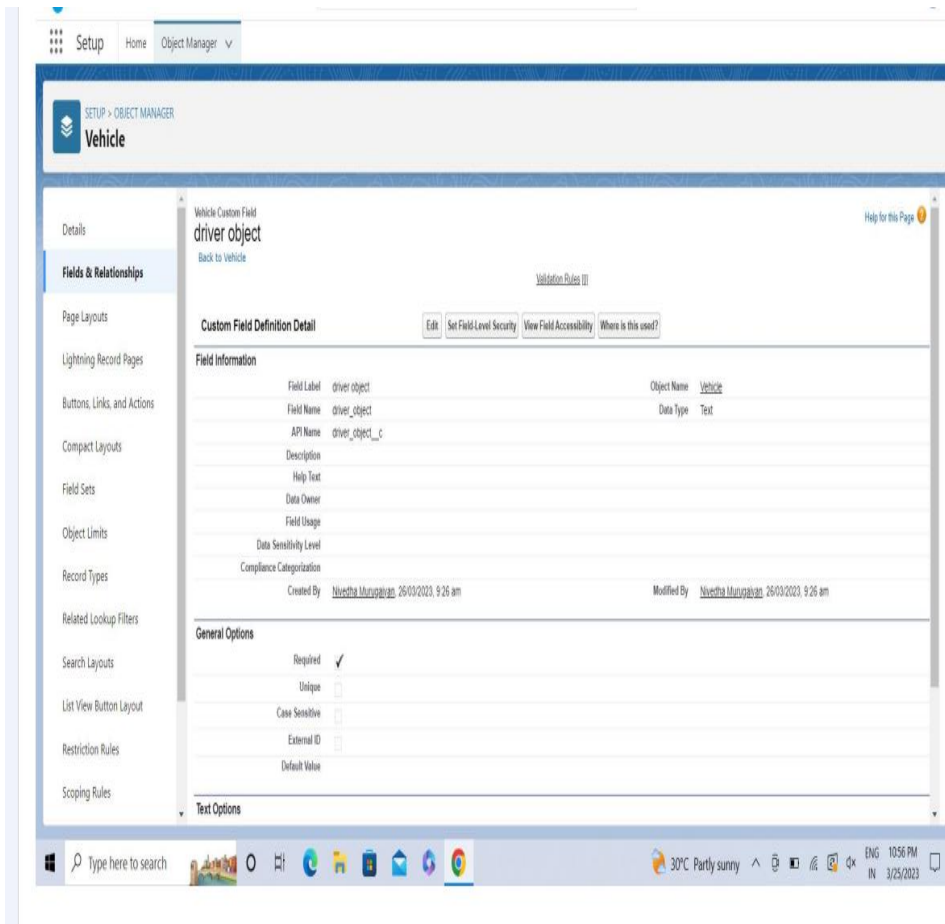
General Options

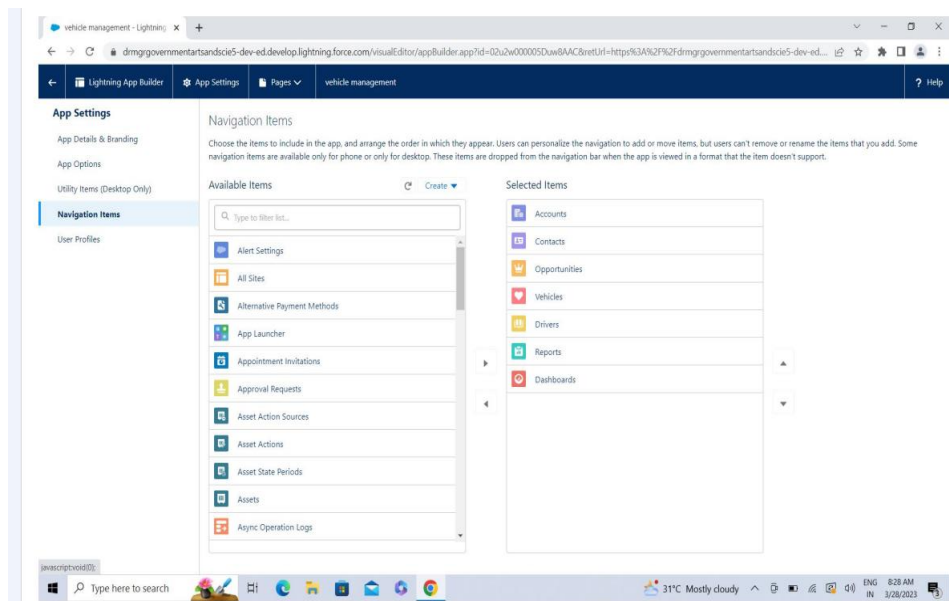
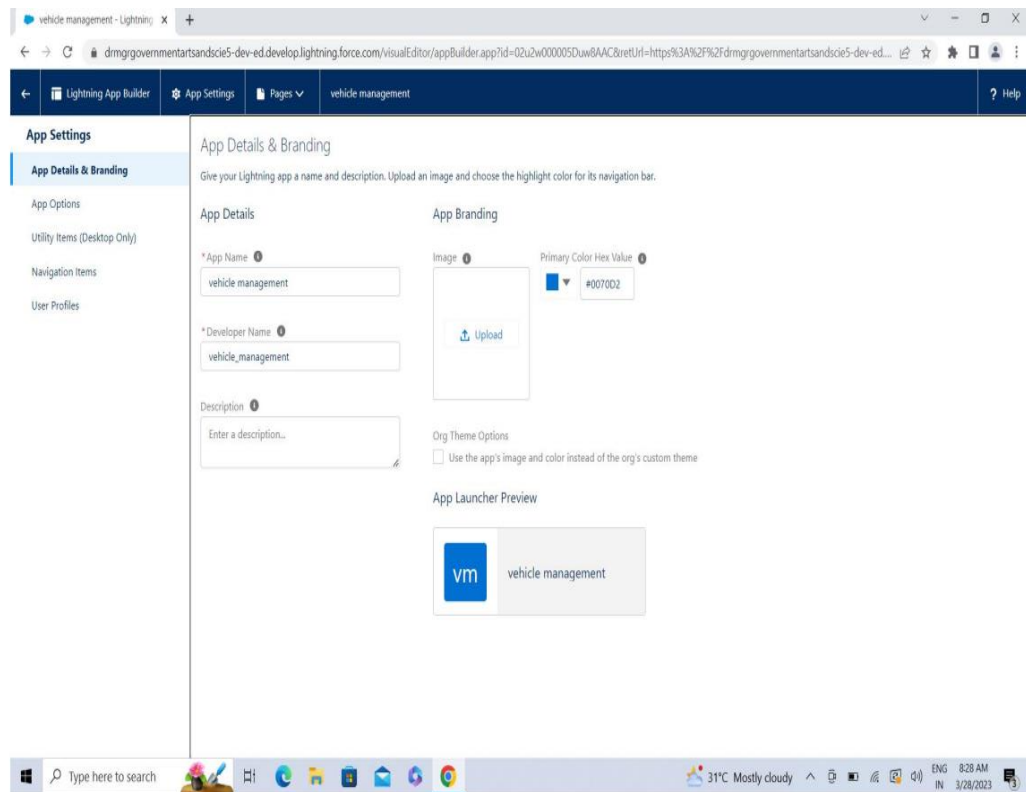
Required	<input type="checkbox"/>
Default Value	1

Picklist Options

Restrict picklist to the values defined in the value set ☒

Controlling Field vehicle type (Change)







Setup Home Object Manager

Search Setup

pr

Users

Profiles

Data

Mass Transfer Approval Requests

Feature Settings

Data.com

Prospector Preferences

Prospector Users

Functions

Marketing

Lead Processes

Sales

Products

Asset Settings

Product Schedules Settings

Product Settings

Sales Processes

Salesforce Files

Type here to search

32°C Mostly sunny

ENG 4:22 AM IN 4/1/2023

Profiles

Vehicle Manager

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

Login IP Ranges (0) | Enabled Apex Class Access (0) | Enabled Visualforce Page Access (0) | Enabled External Data Source Access (0) | Enabled Named Credential Access (0) | Enabled Custom Metadata Type Access (0) | Enabled Custom Setting Definitions Access (0) | Enabled Flow Access (0) | Enabled Service Presence Status Access (0) | Enabled Custom Permissions (0)

Profile Detail

Edit Clone Delete View Users

Name	Vehicle Manager
User License	Salesforce
Description	
Created By	Nivedha Murugayan 31/03/2023, 5:40 pm
Modified By	Nivedha Murugayan 31/03/2023, 5:43 pm

Page Layouts

Standard Object Layouts	Global	Global Layout (View Assignment)	Object Milestone	Object Milestone Layout (View Assignment)
Email Application	Not Assigned	(View Assignment)	Operating Hours	Operating Hours Layout (View Assignment)
Home Page Layout	DE Default	(View Assignment)	Opportunity	Opportunity Layout (View Assignment)
Account	Account Layout	(View Assignment)	Opportunity Product	Opportunity Product Layout (View Assignment)
Alternative Payment Method	Alternative Payment Method Layout	(View Assignment)	Order	Order Layout (View Assignment)
Appointment Invitation	Appointment Invitation Layout	(View Assignment)	Order Product	Order Product Layout (View Assignment)

Setup Home Object Manager

Search Setup

users

Users

Permission Set Groups

Permission Sets

Profiles

Public Groups

Queues

Roles

User Management Settings

Users

Feature Settings

Data.com

Prospector Users

Didn't find what you're looking for? Try using Global Search.

Type here to search

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ENG 4:34 AM

Users

Nivedha M

User Profile Help for this Page

Permission Set Assignments (0) | Permission Set Assignments Activation Required (0) | Permission Set Group Assignments (0) | Permission Set License Assignments (0) | Personal Groups (0) | Public Group Memberships (0) | Queue Memberships (0) | Teams (0) | Managers in the Role Hierarchy (0) | OAuth Connected Apps (0) | Third-Party Account Links (0) | Installed Mobile Apps (0) | Authentication Settings for External Systems (0) | Login History (12) | User Provisioning Accounts (0)

User Detail

Edit Sharing Reset Password Freeze

Name	Nivedha M	Role	Vehicle Manager
Alias	nm	User License	Salesforce
Email	nmurugayan2002@gmail.com	Profile	Vehicle Manager
Username	nmurugayan2002@gmail.com	Active	✓
Nickname	User158034031190591049	Marketing User	<input type="checkbox"/>
Title	Vehicle management	Offline User	<input type="checkbox"/>
Company	Dr.MGR government arts and science college for women	Knowledge User	<input type="checkbox"/>
Department	Mathematics	Flow User	<input type="checkbox"/>
Division	B.sc	Service Cloud User	<input type="checkbox"/>
Address		Site.com Contributor User	<input type="checkbox"/>
Time Zone	(GMT+05:30) India Standard Time (Asia/Kolkata)	Site.com Publisher User	<input type="checkbox"/>
Locale	English (India)	WDC User	<input type="checkbox"/>
Language	English	Mobile Push Registrations	View
Delegated Approver		Data.com User Type	1
Manager		Accessibility Mode (Classic Only)	1
Receive Approval Request Emails	Only if I am an approver	Debug Mode	1
Federation ID		High-Contrast Palette on Charts	1
App Registration: One-Time Password Authenticator		Load Lightning Pages While Scrolling	✓ 1

Setup

Home

Object Manager

roles

Users

Roles

Feature Settings

Sales

Contact Roles on Contracts

Contact Roles on Opportunities

Service

Case Teams

Case Team Roles

Contact Roles on Cases

Didn't find what you're looking for?

Try using Global Search.

Setup

Roles

Role

Vehicle Manager

Below is the list of users assigned to this role. Click Edit to modify the role name. Click Assign Users to Role to assign existing users to this role. Click New User to create a user for this role.

Hierarchy: CRM G.R Government Arts and Science college for women > CEO > Vehicle Manager

Siblings: SVP Sales & Marketing > SVP Customer Service & Support > CEO SVP Human Resources > COO

Users in Vehicle Manager Role (0)

Role Detail

Edit

Delete

Label

Vehicle Manager

Role Name

Vehicle_Manager

This role reports to

CEO

Role Name as displayed on reports

CEO

Modified By

Nivedha Munugayam

01/04/2023, 2:55 pm

Sharing Groups

Role, Role and Subordinates

Opportunity Access

Users in this role can edit all opportunities associated with accounts that they own, regardless of who owns the opportunities

Case Access

Users in this role can edit all cases associated with accounts that they own, regardless of who owns the cases

Users in Vehicle Manager Role

Assign Users to Role

New User

Users in Vehicle Manager Role Help

No records to display

javascriptsrc1p%2F00E%2Fparent%3D00E2w0000300q2%26setup%3DRoles%2...

Type here to search

32°C Mostly sunny

4:25 AM

4/1/2023

dmrgovernmentartsandsie5-dev-ed.develop.lightning.force.com/lightning/r/Report/0002w00000ERcdEEAT/view?queryScope=userFolders

Search...

Sales

Home

Opportunities

Leads

Tasks

Files

Accounts

Contacts

Campaigns

Dashboards

Reports

Chatter

Groups

Calendar

More

Report: Accounts

Vehicle

Field Editing Enabled

Add Chart

Edit

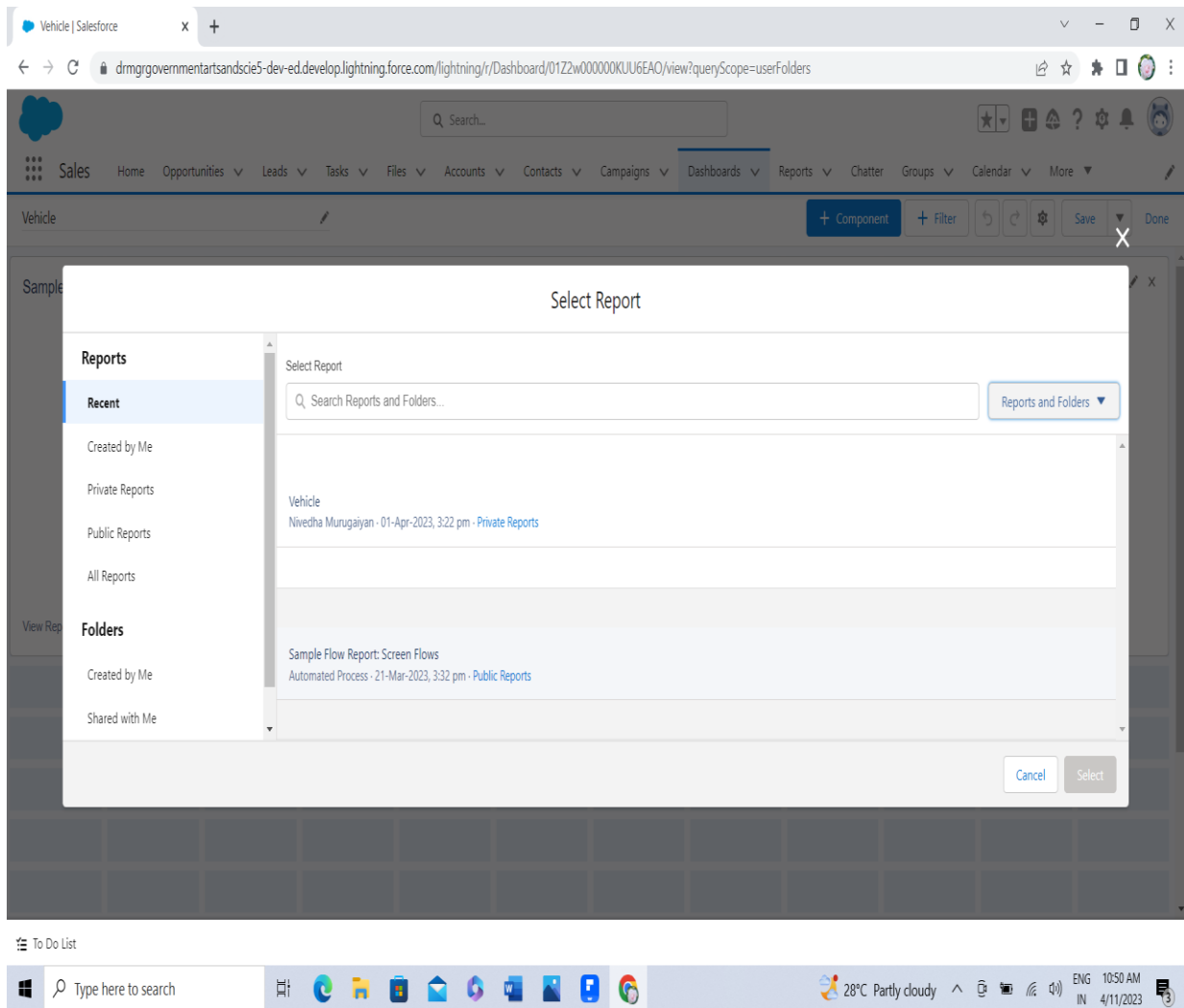
Total Records

13

	Last Activity	Account Owner	Account Name	Billing State/Province	Type	Rating	Last Modified Date
1	-	Nivedha Munugayam	Dickerson plc	KS	Customer - Channel	-	21/03/2023
2	-	Nivedha Munugayam	Grand Hotels & Resorts Ltd	IL	Customer - Direct	Warm	21/03/2023
3	-	Nivedha Munugayam	Express Logistics and Transport	OR	Customer - Channel	Cold	21/03/2023
4	-	Nivedha Munugayam	GenePoint	CA	Customer - Channel	Cold	21/03/2023
5	-	Nivedha Munugayam	United Oil & Gas, UK	UK	Customer - Direct	-	21/03/2023
6	-	Nivedha Munugayam	United Oil & Gas, Singapore	Singapore	Customer - Direct	-	21/03/2023
7	-	Nivedha Munugayam	Edge Communications	TX	Customer - Direct	Hot	21/03/2023
8	-	Nivedha Munugayam	Burlington Textiles Corp of America	NC	Customer - Direct	Warm	21/03/2023
9	-	Nivedha Munugayam	Pyramid Construction Inc.	-	Customer - Channel	-	21/03/2023
10	-	Nivedha Munugayam	University of Arizona	AZ	Customer - Direct	Warm	21/03/2023
11	-	Nivedha Munugayam	United Oil & Gas Corp.	NY	Customer - Direct	Hot	21/03/2023
12	-	Nivedha Munugayam	sForce	CA	-	-	21/03/2023
13	-	Automated Process	Sample Account for Entitlements	-	-	-	21/03/2023

To Do List

FNG 10:48 AM



4. Trailhead Profile Public URL

Team Lead – <https://trailblazer.me/id/nmurugaiyan>

Team Member 1- <https://trailblazer.me/id/pavithraayyappan2>

Team Member 2- <https://trailblazer.me/id/pooja1120>

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

5.ADVANTAGES AND DISADVANTAGES

5.1 ADVANTAGES

- ✓ Low fuel consumption
- ✓ Tracking in real-time
- ✓ Safe and secure
- ✓ GPS vehicle tracking through mobile app
- ✓ Control of fuel consumption
- ✓ Drive safety and management
- ✓ Dispatch management.

5.2 DISADVANTAGES

- Location inaccuracy and drifting
- Poor signal and battery life concerns
- Incorrect Routes
- Unhappy employees
- Distracted driving
- Privacy and data concerns
- Over dependency.

6.APPLICATIONS

- ❖ The entire fleet on a single screen,in real time
- ❖ Vehicle status,readily available
- ❖ Driver and vehicle safety and reliability
- ❖ Improved fuel efficiency,minimized fuel fraud
- ❖ Improved lifespan for vehicles and equipment
- ❖ Reduced maintenance and labor costs.

7.CONCLUSION

The system enables the transport management centers to observe,collect and analyse location information about a commuter vehicle in real time.The benefits to the passengers mean better on time performance and less waiting time at bus stops.

8.FUTURE SCOPE

Vehicle Management System can be summarised that the future scope of the project circles around maintaining information regarding:

- We can add printer it future.
- We will host the platform on online servers to make it accessible worldwide.
- Integrate multiple load balancers to distribute the loads of the system.
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers.

We hope that the project will serve its purpose for which it is develop there by underlining success of process.