

REPORT FOR VEHICLE MANAGEMENT SYSTEM

1 INTRODUCTION

1.1 Overview

The Vehicle Management System (VMS) is an application for the Automotive industry. It supports, in the area of Sales & Services, the business processes that you require as vehicle importer when dealing with your original equipment manufacturers (OEMs) and your dealers in new and used vehicle sales.

1.2 Purpose

A vehicle management system is a software system or platform that serves to manage commercial fleets of vehicles, such as cars, vans or trucks 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 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.



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 imagine them saying?

What do
think about
this car?

I don't were
to start?

How many
miles per
gallon can I
get with this
car?

Are there
any
Warranties?



Thinks

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

That they are
being
advantage of
by the sales
men .

Wants to find
a car for a
good price

that coupe
cars are fun,
but not
practical

That sale
people are
all jerks



takes cars
for test
drives?

check for
trunk
space

That leather
makers
everything
look better

contacts
experts that
they know

Always
makes sure
car is clean
and tidy

That are cars
thar are red
are a very
mainly color

That cars
commericals
are not
realistic

Talks to
people
through social
networking
sites



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?



2.2 Ideation & Brainstorming

Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 15 minutes to complete
- 1 hour to collaborate
- 24 people recommended

More template feedback

Before you collaborate

1. Get a list of participants from a friend, colleague, or client. Share this list with your team so they can be prepared to contribute.

2. Team gathering

3. Set the goal

4. Learn how to use the facilitation tools

Open online

Define your problem statement

What problem are you trying to solve? Frame your problem as a "How Might We" statement. This will be the focus of your brainstorming.

Problem: How might we [your problem statement]?

Key rules of brainstorming

- Stay in topic
- Encourage wild ideas
- Go for quantity
- Don't criticize
- Build on others
- 4 people, 15 minutes

Person 1

proper service and drive this car.

Good Mollage this vehicle

Person 2

Car parked the suitable place.

Good driving and Maintaining drivers safety

Maintain the speed of the vehicle

Comfortable riding the car.

Person 3

First check petrol this vehice.

Regularly washed car

Person 4

Check the condition of the tires.

Reducing Fuel

Regularly covered a car in rain days.

Tracking vehicles.

Group ideas

Take turns sharing your ideas while clustering similar or related ideas as you go. Share all ideas, no matter how small. Give each idea a sticky note. If a cluster is larger than the sticky notes, try and use it as a guide to build a larger sticky note.

15 minutes

TIP: Add customer insights to sticky notes to make it easier to find, remove, organize, and categorize important ideas as themes within your cluster.

Prioritize

Now group ideas that all do the same thing about what's important. Group ideas that all do the same thing about what's important. Group ideas that all do the same thing about what's important.

15 minutes

Importance

Feasibility

After you collaborate

Now group ideas that all do the same thing about what's important. Group ideas that all do the same thing about what's important. Group ideas that all do the same thing about what's important.

15 minutes

Group, sharing feedback

Group, sharing feedback

Group, sharing feedback

Group, sharing feedback

3 RESULT


3.1 Data Model:

Object Name	Fields in the Object	
Vehicles object	Field label	datatype
	Customer Name	Text
	Customer Mobile No	Number
	Vehicle Type i)2 wheeler ii)4 wheeler	Picklist
	Vehicle Name	Text
Driver objects	Field label	datatype
	Driver Name	Text
	Licence no	Text
	Mobile no	Number
	Fair Per Hour	Text
	Vehicle	Lookup(Vehicle)

3.2 Activity & Screenshot

Milestone: 1

Activity 1: Creating Developer Account



Sign up for your Salesforce Developer Edition

A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name*

Last Name*

Email*

Role*


Your job role

Company*

Country/Region*

Select Country/Region


Postal Code*




Build enterprise-quality apps fast to bring your ideas to life

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework

Account Activation



Thanks for signing up with Salesforce!



Click below to verify your account.

Verify Account

To easily log in later, save this URL:

<https://govsermentartscollegeparam-dev-ed.develop.my.salesforce.com>

Username:

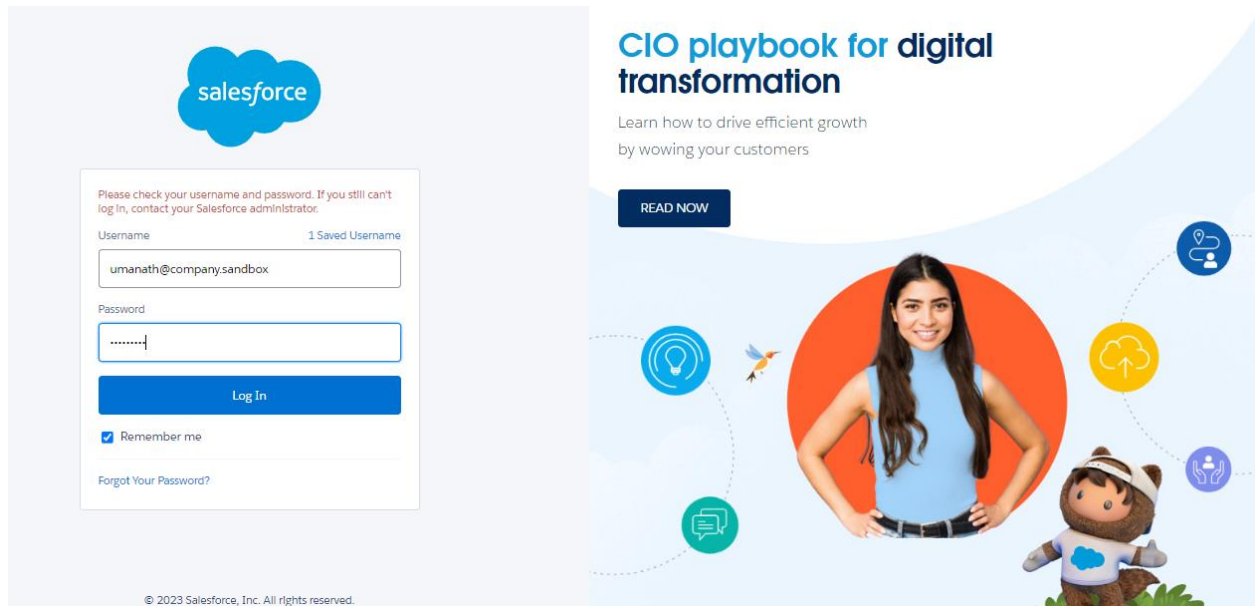
umanath@company.sandbox

Again, welcome to Salesforce!

Login To Your Salesforce Account

Salesforce Login

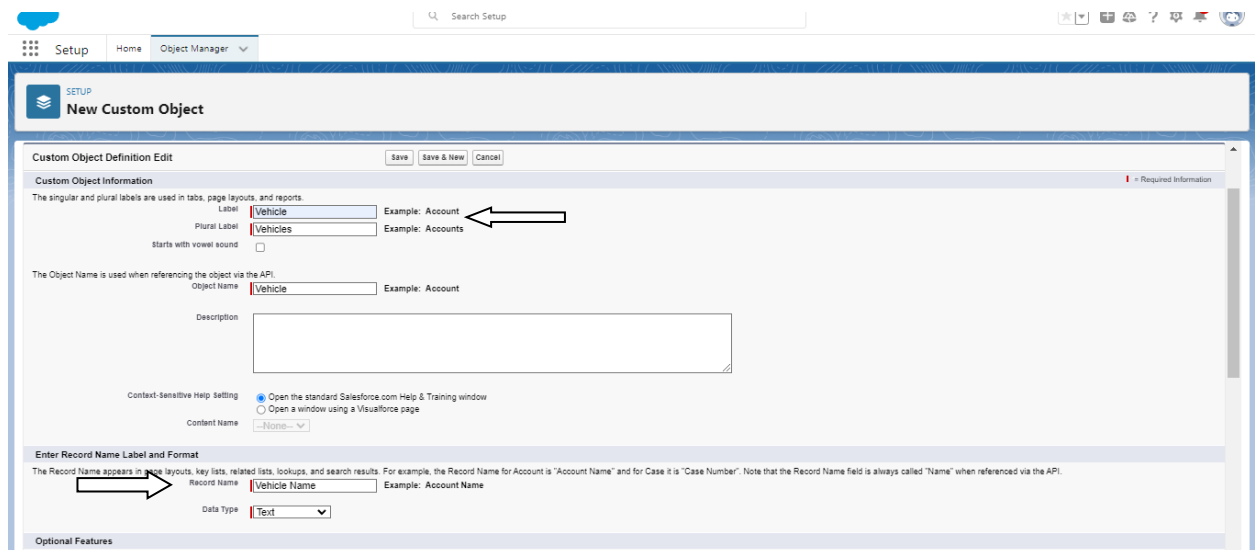
<https://login.salesforce.com>



Milestone-2:Object

Activity 1:

To Create vehicle object:



SETUP
New Custom Object

Optional Features

- ☒ Allow Reports
- ☐ Allow Activities
- ☐ Track Field History
- ☐ Allow in Chatter Groups
- ☐ Enable Licensing

Object Classification

When these settings are enabled, this object is classified as an Enterprise Application object. When these settings are disabled, this object is classified as a Light Application object. [Learn more.](#)

- ☒ Allow Sharing
- ☒ Allow Bulk API Access
- ☒ Allow Streaming API Access

Deployment Status

☐ In Development
☒ Deployed

Search Status

When this setting is enabled, your users can find records of this object type when they search. [Learn more.](#)

- ☒ Allow Search

Object Creation Options (Available only when custom object is first created)

- ☐ Add Notes and Attachments related list to default page layout
- ☐ Launch New Custom Tab Wizard after saving this custom object

Save Save & New Cancel

Activity 2:

To create Driver object

To Create a driver object continue the same steps Which is followed for the above object.

Milestone -3:Fields and Relationship

Activity-1 :

Creation of fields

SETUP > OBJECT MANAGER
Vehicle

Details

Fields & Relationships
23 Items, Sorted by Field Label

Q. Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
2 WHEELERS	X2_WHEELERS__c	Picklist	Vehicle Type	
4 WHEELERS	X4_WHEELERS__c	Picklist	Vehicle Type	
Body Type	Body_Type__c	Text(8)		
Chassic No	Chassic_No__c	Text(6)		
Colour	Colour__c	Text(7)		
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(5)		
Driver Name	Driver_Name__c	Text(10)		

SETUP > OBJECT MANAGER
Vehicle

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules


Scoping Rules

Triggers

Flow Triggers


New Custom Field

Step 2. Enter the details


Field Label: 

Please enter the maximum length for a text field below:

Length:

Field Name: 

Description:

Help Text: 


Required: ☐ Always require a value in this field in order to save a record

Unique: ☐ Do not allow duplicate values

☐ Treat "ABC" and "abc" as duplicate values (case insensitive)

☐ Treat "ABC" and "abc" as different values (case sensitive)

External ID: ☐ Set this field as the unique record identifier from an external system

Auto add to custom report type: ☒ Add this field to existing custom report types that contain this entity 

Default Value:

Use formula syntax. Enclose text and picklist value API names in double quotes ("No text", include numbers without quotes). To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type__mdt.RecordIDNameField__c

Previous Next Cancel

Activity-2:

Fields In Driver Object:

Setup Home Object Manager

Vehicle

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

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Restriction Rules

Scoping Rules

23 items. Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
2 WHEELERS	X2_WHEELERS__c	Picklist	Vehicle Type	
4 WHEELERS	X4_WHEELERS__c	Picklist	Vehicle Type	
Body Type	Body_Type__c	Text(8)		
Chassis No	Chassis_No__c	Text(6)		
Colour	Colour__c	Text(7)		
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(5)		
Driver Name	Driver_Name__c	Text(10)		

Setup Home Object Manager

driver

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

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Record Types

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Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Triggers

Flow Triggers

New Custom Field

Step 2: Enter the details

Field Label: Driver Name

Please enter the maximum length for a text field below

Length: 1

Field Name: Driver_Name

Description:

Help Text:

Required: ☐ Always require a value in this field in order to save a record

Unique: ☐ Do not allow duplicate values

External ID: ☐ Set this field as the unique record identifier from an external system

Auto add to custom report type: ☒ Add this field to existing custom report types that contain this entity

Default Value: Show Formula Editor

Use formula syntax. Choose text and picklist values. Picklist values in double quotes. Treat "ABC" and "abc" as duplicate values (case insensitive). Treat "ABC" and "abc" as different values (case sensitive). Use numbers without quotes. Use numbers with decimals (0.10), and express date calculations in the standard format: Today() + 7. To reference a field from a Custom Metadata type record use: <CustomMetadata.Type__c>.RecordId.PicklistField__c

Previous Next Cancel

2 of 4

Milestone-4:Lightning App

Setup Home Object Manager

Search Setup

Lightning Experience App Manager

New Lightning App New Connected App

Clone Apps(Beta)

Quickly create new Lightning apps by cloning existing apps. To use the beta feature, indicate that you've read all legal requirements and agree to participate by toggling Enable App Cloning. See additional details and terms in the [Winter '23 release notes](#)

Enable App Cloning: ☐ Disabled

22 items • Sorted by App Name • Filtered by All app menu items - TabSet Type

App Name ↑	Developer Name	Description	Last Modified Date	App T...	Visi...
1 All Tabs	AllTabSet		24/04/2023, 12:37 pm	Classic	✓
2 Analytics Studio	Insights	Build CRM Analytics dashboards and apps	24/04/2023, 12:37 pm	Classic	✓
3 App Launcher	AppLauncher	App Launcher tabs	24/04/2023, 12:37 pm	Classic	✓
4 Bolt Solutions	LightningBolt	Discover and manage business solutions designed for your industry.	24/04/2023, 12:40 pm	Lightning	✓
5 Community	Community	Salesforce CRM Communities	24/04/2023, 12:37 pm	Classic	✓
6 Content	Content	Salesforce CRM Content	24/04/2023, 12:37 pm	Classic	✓
7 Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes.	24/04/2023, 12:37 pm	Lightning	✓
8 Digital Experiences	SalesforceCMS	Manage content and media for all of your sites.	24/04/2023, 12:37 pm	Lightning	✓
9 Lightning Usage App	LightningInstrumentation	View Adoption and Usage Metrics for Lightning Experience	24/04/2023, 12:37 pm	Lightning	✓
10 Marketing	Marketing	Best-in-class on-demand marketing automation	24/04/2023, 12:37 pm	Classic	✓
11 Platform	Platform	The fundamental Lightning Platform	24/04/2023, 12:37 pm	Classic	✓

Setup

Home

Object Manager

Search Setup

New Lightning App

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

* App Name

Vehicle Management

* Developer Name

Vehicle_Management

Description

Enter a description...

App Branding

Image

Upload

Primary Color Hex Value

#0070D2

Org Theme Options

☐ Use the app's image and color instead of the org's custom theme

App Launcher Preview

Next

9	Lightning Usage App	Lightning/instrumentation	View Adoption and Usage Metrics for Lightning Experience	24/04/2023, 12:37 pm	Lightning	✓
10	Marketing	Marketing	Best-in-class on-demand marketing automation	24/04/2023, 12:37 pm	Classic	✓

Lightning App Builder

App Settings

Pages

Vehicle Management

Help

App Settings

App Details & Branding

App Options

Utility Items (Desktop Only)

Navigation Items

User Profiles

Navigation Items

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.

Available Items

Create

Type to filter list...

Alert Settings

All Sites

Alternative Payment Methods

App Launcher

Appointment Invitations

Approval Requests

Asset Action Sources

Asset Actions

Asset State Periods

Assets

Async Operation Logs

Authorization Form

Authorization Form Consent

Selected Items

Accounts

Contacts

Opportunities

Vehicles

drivers

Reports

Dashboards

App Settings

- App Details & Branding
- App Options
- Utility Items (Desktop Only)
- Navigation Items
- User Profiles**

User Profiles

Choose the user profiles that can access this app.

Available Profiles

Type to filter list...

- Analytics Cloud Integration User
- Analytics Cloud Security User
- Authenticated Website
- Authenticated Website
- Contract Manager
- Custom: Marketing Profile
- Custom: Sales Profile
- Custom: Support Profile
- Customer Community Login User
- Customer Community Plus Login User
- Customer Community Plus User
- Customer Community User
- Customer Portal Manager Custom

Selected Profiles

- System Administrator

Milestone-5: Profile

Setup Home Object Manager

Search Setup

profiles

Users

Profiles

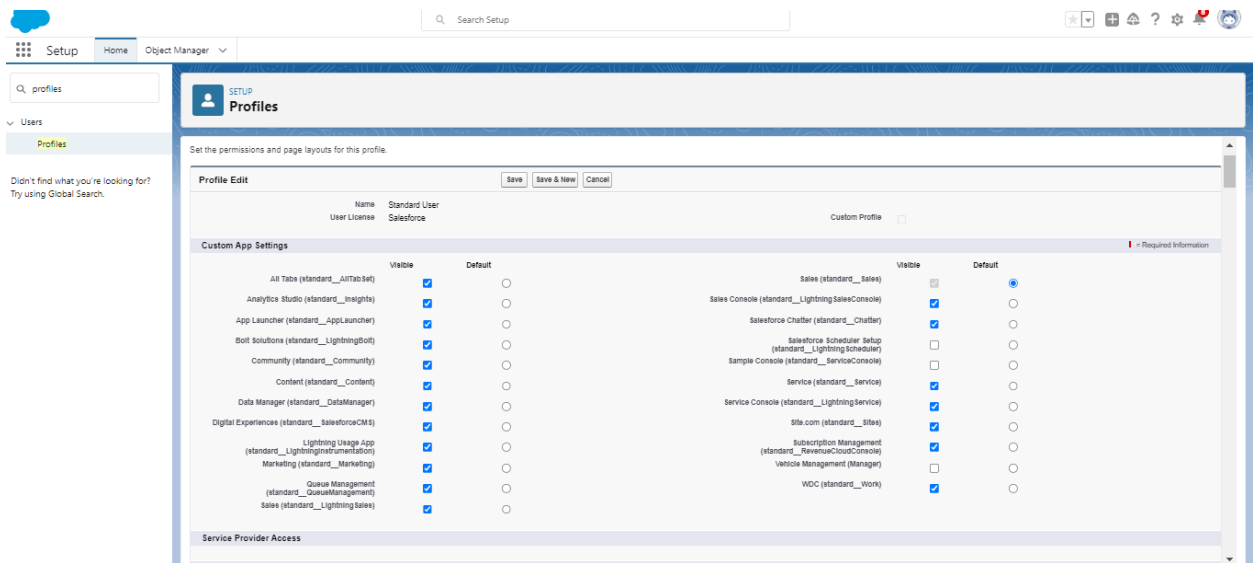
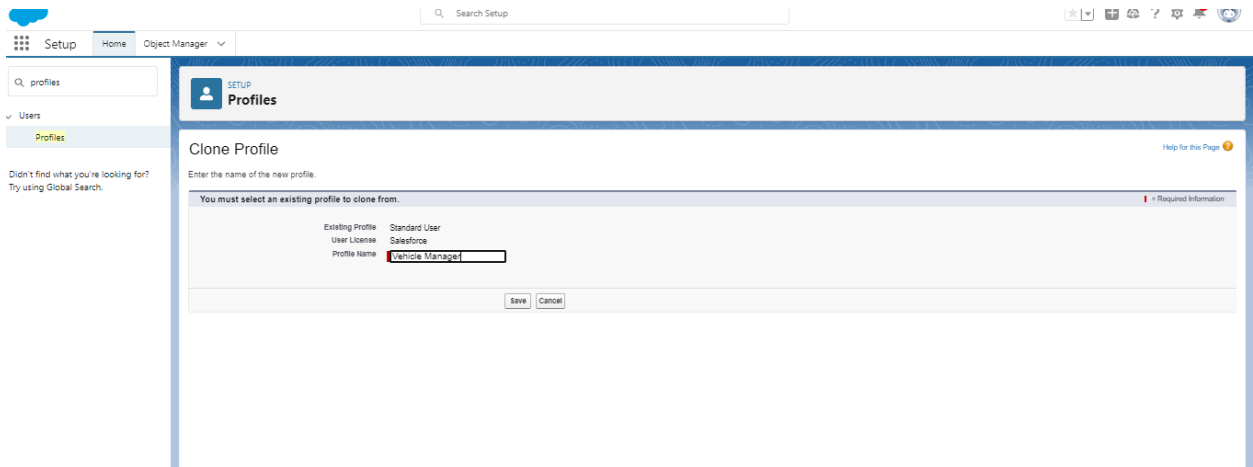
Didn't find what you're looking for? Try using Global Search.

Profiles

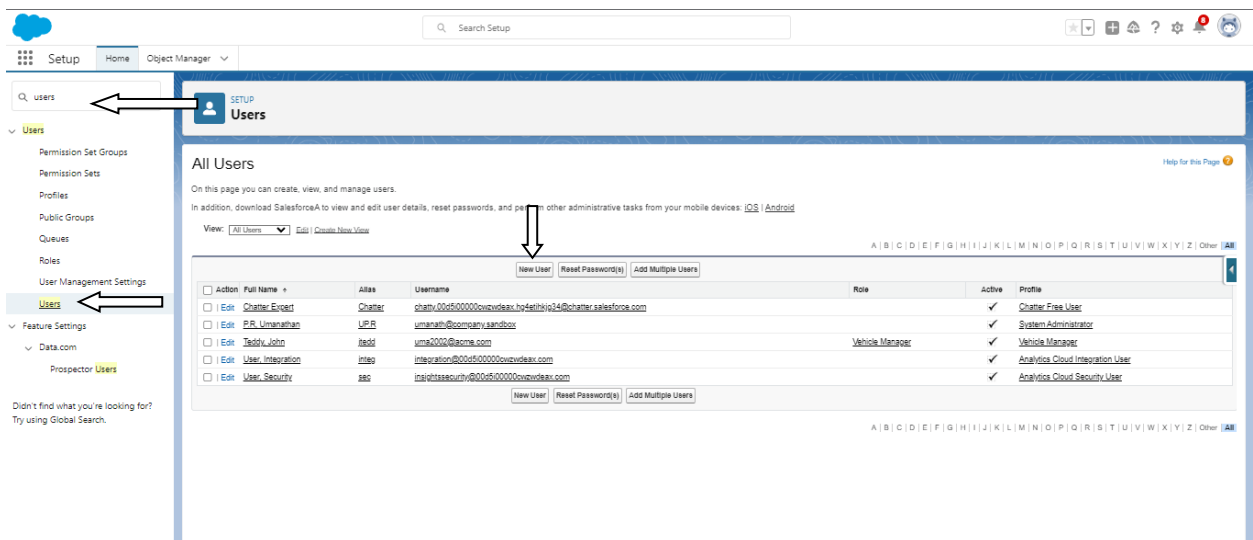
All Profiles Edit Delete Create New View

New Profile

Action	Profile Name	User License	Custom
<input type="checkbox"/> Edit Clone	Salesforce API Only System Integrations	Salesforce Integration	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Silver Partner User	Silver Partner	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Solution Manager	Salesforce	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Standard Platform User	Salesforce Platform	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Standard User	Salesforce	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	System Administrator	Salesforce	<input type="checkbox"/>



Milestone-6: Users



Setup Home Object Manager

Search Setup

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.

SETUP Users

User Edit John Teddy

User Edit Save Save & New Cancel

General Information

First Name John
Last Name Teddy
Alias jtedd
Email juma02@gmail.com
Username juma2002@acme.com
Nickname User166240003569638898
Title
Company
Department
Division

Role Vehicle Manager
User License Salesforce
Profile Vehicle Manager
Active ☒
Marketing User ☐
Offline User ☐
Knowledge User ☐
Flow User ☐
Service Cloud User ☐
sfdc.com Contributor User ☐
sfdc.com Publisher User ☐
WDC User ☐
Data.com User Type --None--
Data.com Monthly Addition Limit 300
Accessibility Mode (Classic Only) ☐
High-Contrast Palette on Charts ☐
Load Lightning Pages While Scrolling ☒
Debug Mode ☐
Make Setup My Default Landing Page ☐

Milestone-7:Reports

Activity 1:

Reports And Dashboards.

Vehicle Management Accounts Contacts Opportunities Vehicles drivers Reports Dashboards

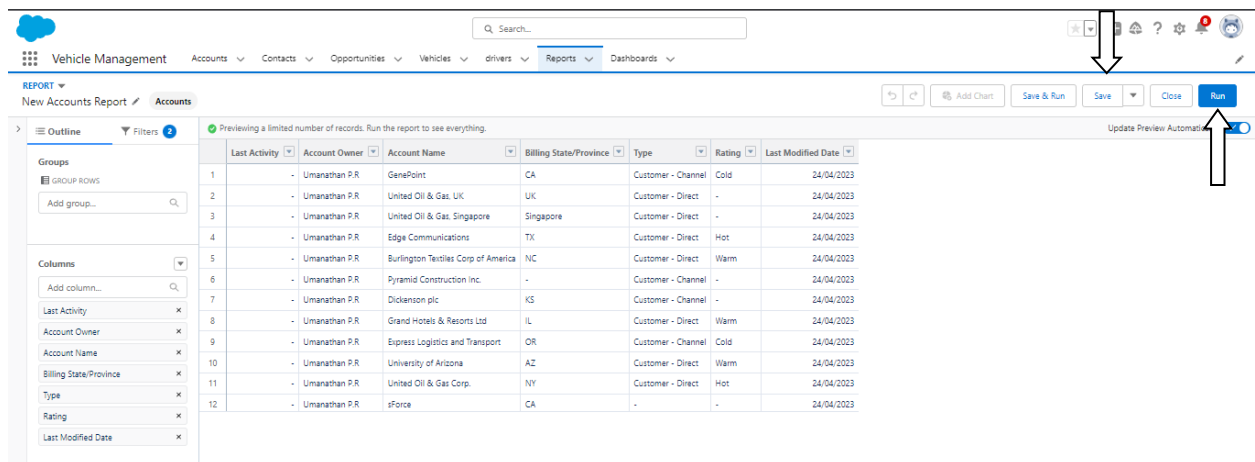
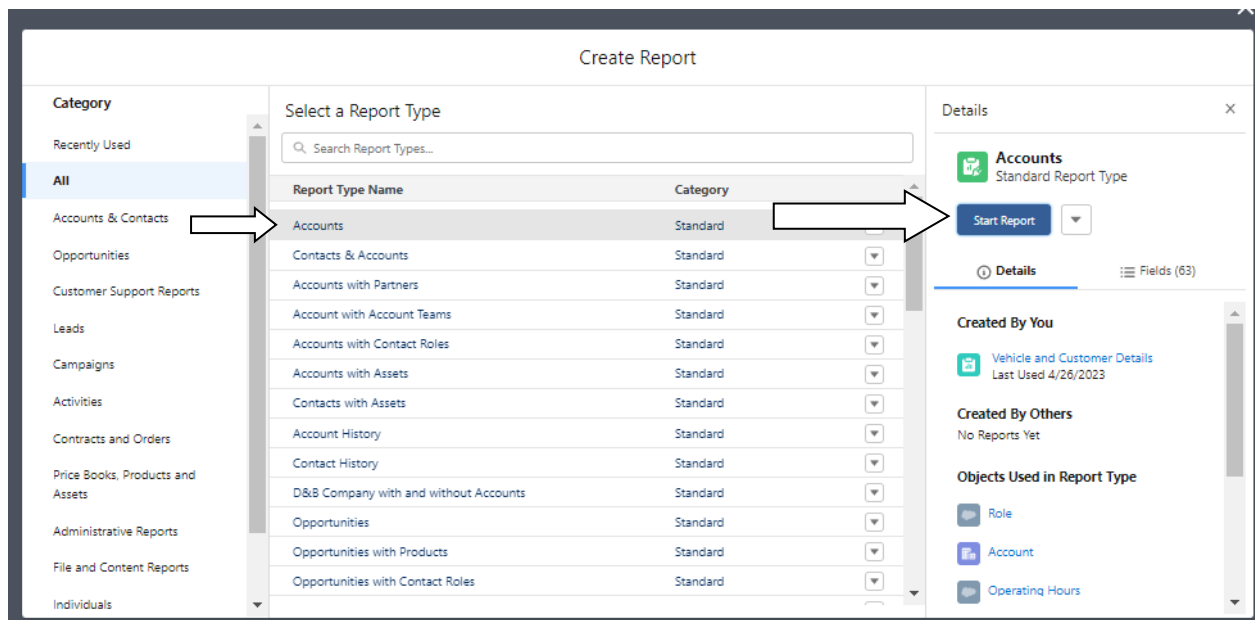
Search...

REPORT New Accounts Report Accounts

Previewing a limited number of records. Run the report to see everything.

Update Preview Automatically

	Last Activity	Account Owner	Account Name	Billing State/Province	Type	Rating	Last Modified Date
1	-	Umanathan P.R	GenePoint	CA	Customer - Channel	Cold	24/04/2023
2	-	Umanathan P.R	United Oil & Gas, UK	UK	Customer - Direct	-	24/04/2023
3	-	Umanathan P.R	United Oil & Gas, Singapore	Singapore	Customer - Direct	-	24/04/2023
4	-	Umanathan P.R	Edge Communications	TX	Customer - Direct	Hot	24/04/2023
5	-	Umanathan P.R	Burlington Textiles Corp of America	NC	Customer - Direct	Warm	24/04/2023
6	-	Umanathan P.R	Pyramid Construction Inc.	-	Customer - Channel	-	24/04/2023
7	-	Umanathan P.R	Dickinson plc	KS	Customer - Channel	-	24/04/2023
8	-	Umanathan P.R	Grand Hotels & Resorts Ltd	IL	Customer - Direct	Warm	24/04/2023
9	-	Umanathan P.R	Express Logistics and Transport	OR	Customer - Channel	Cold	24/04/2023
10	-	Umanathan P.R	University of Arizona	AZ	Customer - Direct	Warm	24/04/2023
11	-	Umanathan P.R	United Oil & Gas Corp.	NY	Customer - Direct	Hot	24/04/2023
12	-	Umanathan P.R	sForce	CA	-	-	24/04/2023



4 Trailhead Profile Public URL

Team member : <https://trailblazer.me/id/shraj152>

5 ADVANTAGES & DISADVANTAGE

- ➡ It improves productivity by saving delivery time due to use of advance route information, traffic alerts etc.
- ➡ It helps to reduce cost of fuel.

- ➡It ensures safety of vehicles, drivers and goods. Active tracking based fleet management requires monthly subscription charges and data usage charges.
- ➡It is difficult to manage and maintain fleet management system due to use of multiple technologies such as cloud servers, cellular wireless systems, fleet management software etc.

6 Applications

- Improve fleet safety and working conditions
- Improve the behavior and performance of drivers and bear unsafe driving.
- Schedule shifts and work hours.
- Leverage driver retention.
- Schedule routine maintenance.

7 CONCLUSION

Our project is only a humble venture to satisfy the needs to manage their project work. This package shall prove to be a powerful package in satisfying all the requirements of the College. The objective of software planning is to provide a frame work that enables the manager to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

8 FUTURE SCOPE

Vehicle Management System 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 can manage the bus routes and the staff passengers.