

GOVERNMENT ARTS COLLEGE,UDHAGAMANDALAM

DEPARTMENT OF PHYSICS

Mentor: Dr S. Venkateshwari

Team lead: Yasshwanth J

Team member 1: Evangeline S

Team member 2: Indhu K

Team member 3: Lavanya C

Team member 4: Kirubakaran N

VEHICLE MANAGEMENT SYSTEM

1.INTRODUCTION

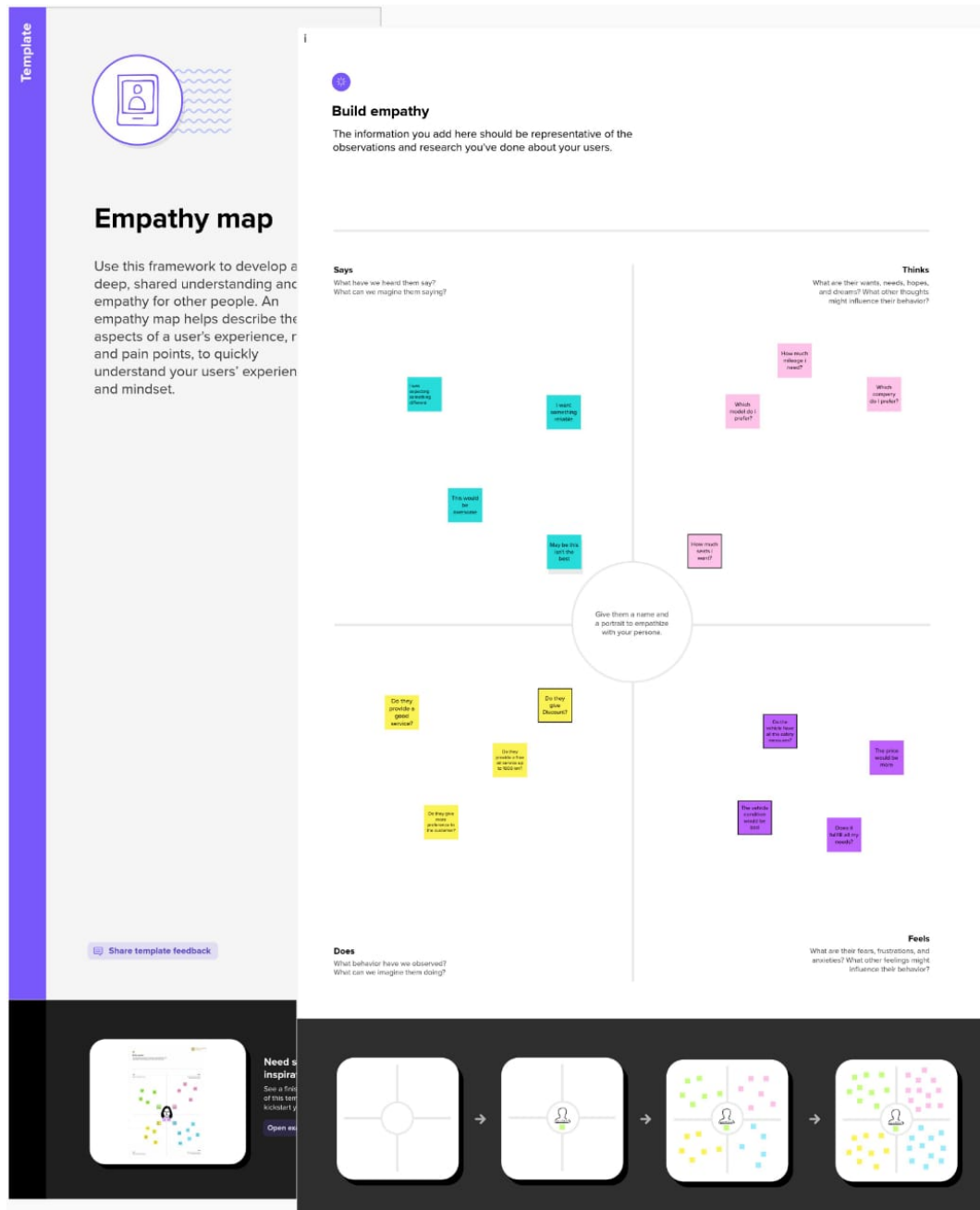
1.1 OVERVIEW

This project aims to develop a vehicle management system using the salesforce platform. This system helps to store the customer details in order to choose cars, bikes, and commercial vehicles for travel within the city. If any offers are provided for a customer this system will inform that customer in the form of message or mail. This makes travelling easy for the customer.

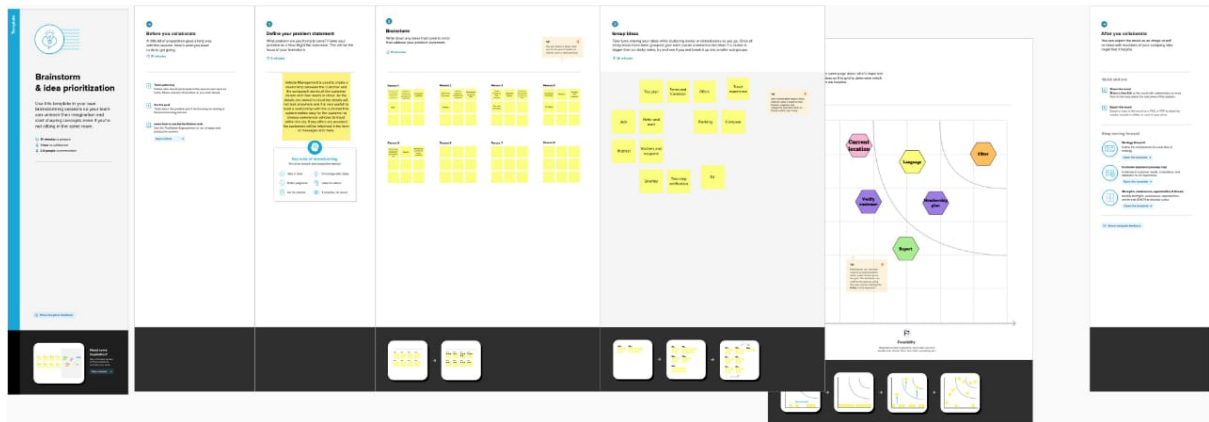
1.2 PURPOSE

A vehicle management project is a system or application that is used to track and manage a fleet of vehicles. It might be used by a company with a large number of vehicles, such as a rental car company or transportation company, to keep track of vehicles maintenance, availability and usage. It is used to manage vehicle to optimize the usage of your trucks and trailers

2.1 EMPATHY MAP



2.2 IDEATION & BRAINSTROMING MAP



3 RESULT

3.1 DATA MODEL

Object name	Fields in the object	
Vehicle	Field name	Data type
	2 wheelers	Picklist
	4 wheelers	Picklist
	Body type	Text
	Chassic no	Text
	Customer Name	Text
	Customer Mobile No	Number
	Vehicle Type	Picklist

	Vehicle Name	Text
	Vehicle No	Text
	Colour	Text
	Vehicle Includes	Multi Picklist
	Condition	Picklist
	Mileage	Text
	Seats	Number
	Start Date	Date/Time
	End Date	Date/Time
	Opportunity	Lookup(opportunities)
	Owner	Lookup
	Last Modified BY	Lookup

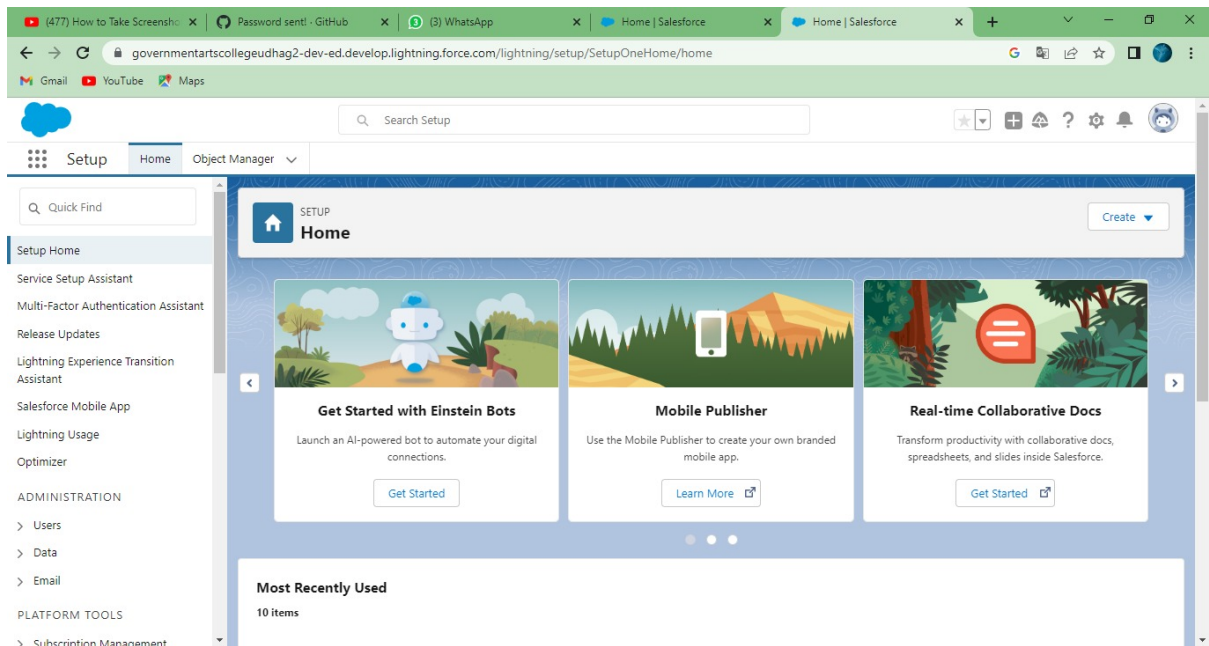
Driver		
	Field Lable	Data Type
	Driver Name	Text
	Licence No	Text
	Mobile No	Number
	Fair Per Hour	Text
	Vehicle	Lookup(Vehicle)

ACTIVITY AND SCREENSHOTS:

Milestone 1: Creation of Developer Account

Description:

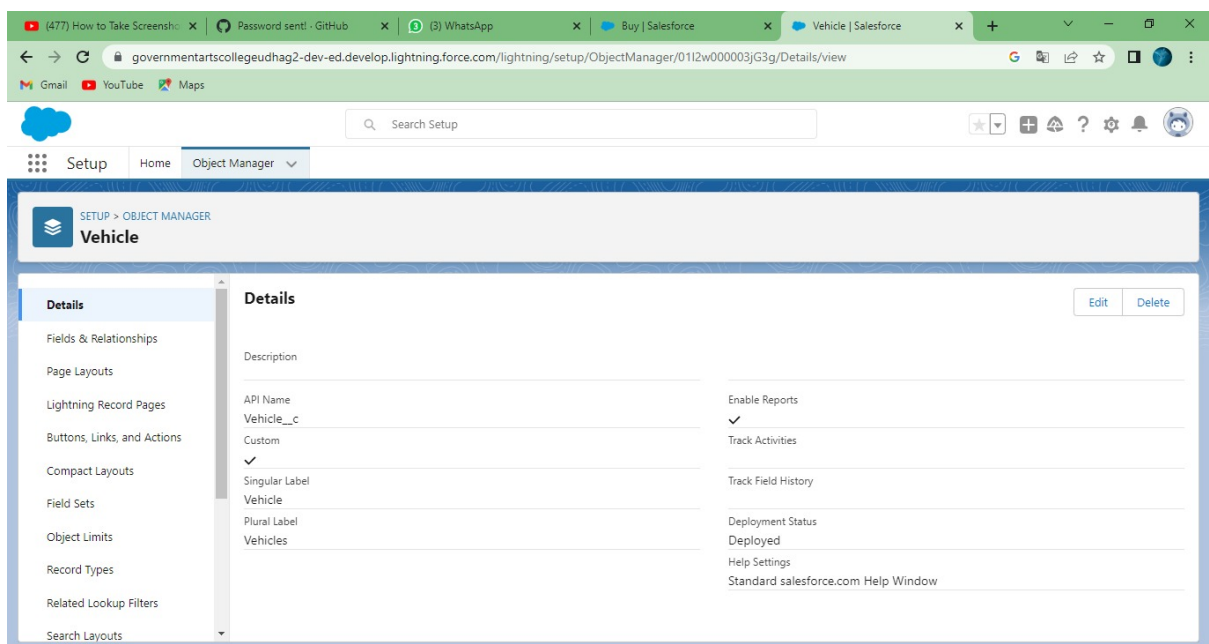
We had created a developer account and verified it for the salesforce project.



Milestone 2: Object

Description:

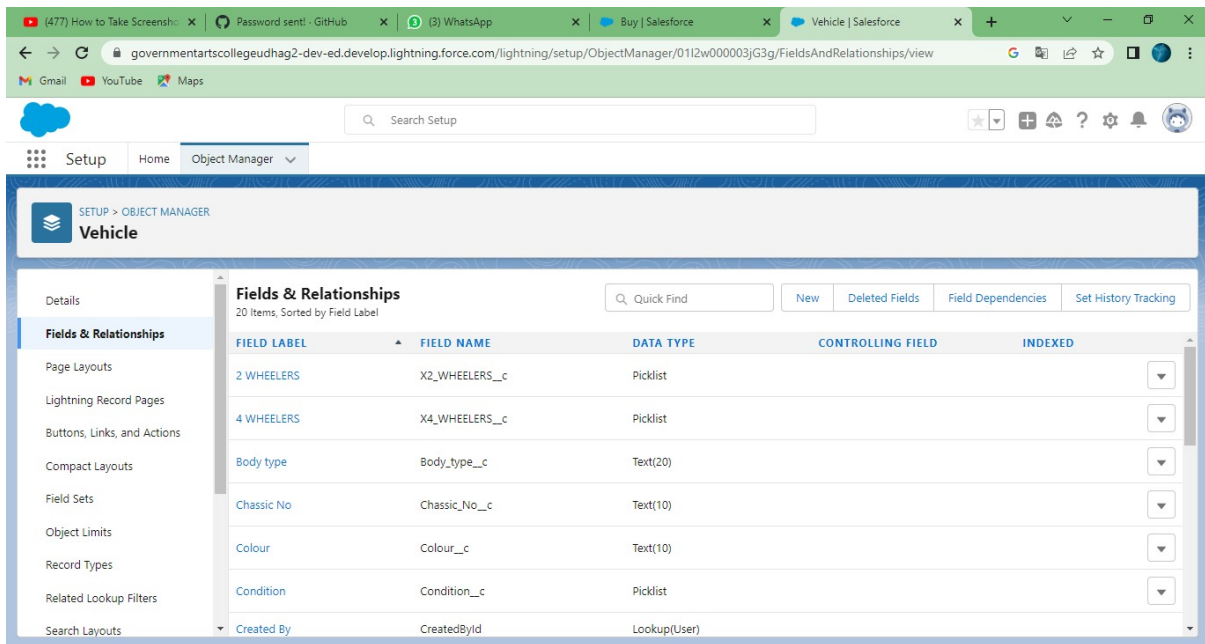
Created a custom object with label named “Vehicle” and “Driver”.



Milestone 3: Fields

Description:

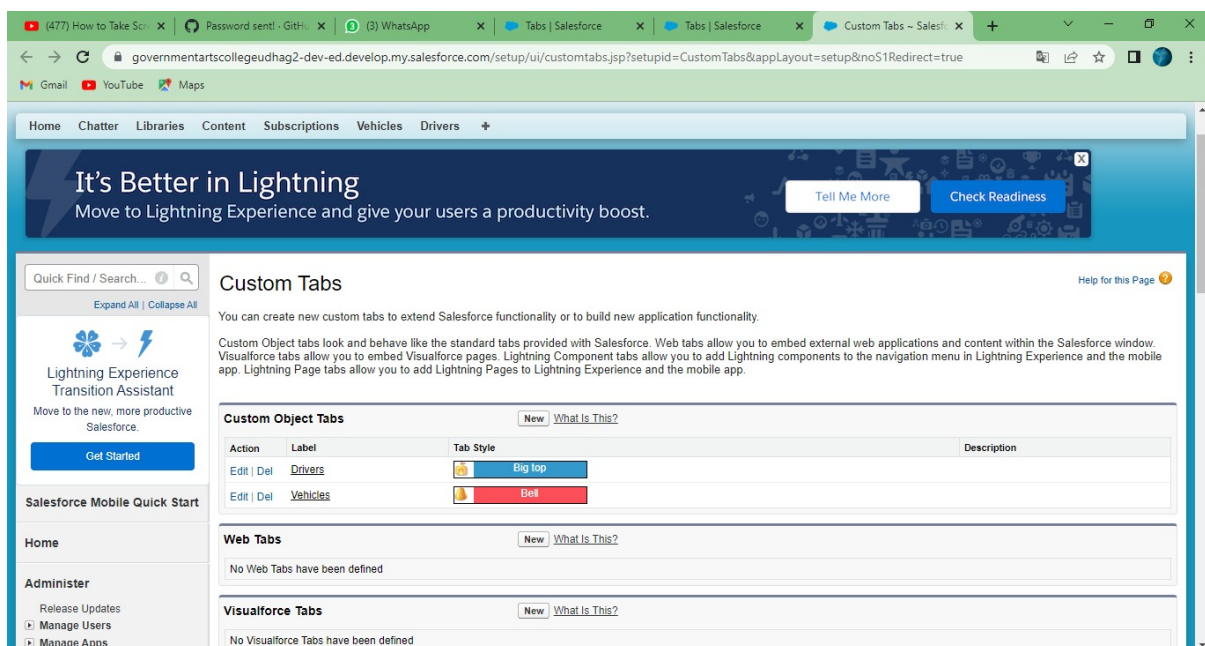
Created a Fields and Relationship for “Vehicle” and “Driver” Object.



Milestone 4: Tabs

Description:

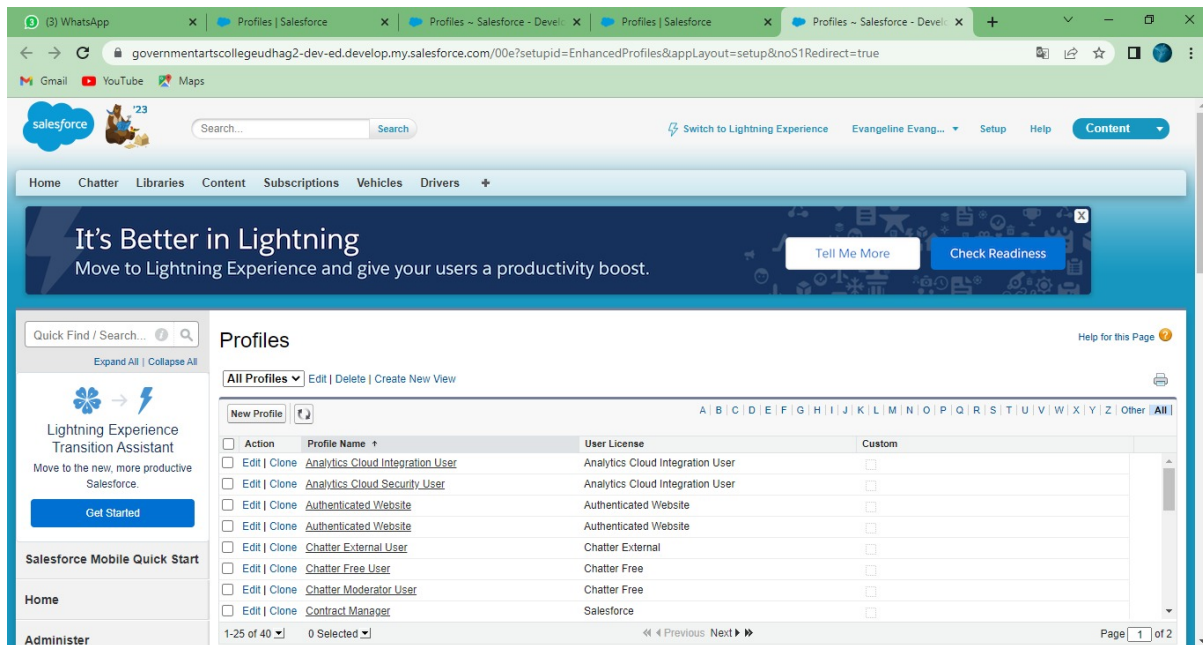
Created a tab for “Vehicle” and “Driver” object.



Milestone 4: Profile

Description:

Created a custom profile for “ Vehicle” and “Driver”.



The screenshot shows the Salesforce Profiles page in a Lightning Experience environment. The browser address bar indicates the URL: `governmentartscollegeudhag2-dev-ed.develop.my.salesforce.com/00e?setupid=EnhancedProfiles&appLayout=setup&noS1Redirect=true`. The page features a navigation bar with links to Home, Chatter, Libraries, Content, Subscriptions, Vehicles, and Drivers. A prominent banner at the top reads "It's Better in Lightning" with a "Check Readiness" button. 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 include Analytics Cloud Integration User, Analytics Cloud Security User, Authenticated Website, Chatter External User, Chatter Free User, Chatter Moderator User, and Contract Manager. The page also shows a sidebar with a search bar and a "Lightning Experience Transition Assistant" button.

Action	Profile Name	User License	Custom
<input type="checkbox"/> Edit Clone	Analytics Cloud Integration User	Analytics Cloud Integration User	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Analytics Cloud Security User	Analytics Cloud Integration User	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Authenticated Website	Authenticated Website	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Authenticated Website	Authenticated Website	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Chatter External User	Chatter External	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Chatter Free User	Chatter Free	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Chatter Moderator User	Chatter Free	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Contract Manager	Salesforce	<input type="checkbox"/>

Milestone 6: Users

Description:

Created a user for Vehicle Manager as “ John Teddy”.

It's Better in Lightning
Move to Lightning Experience and give your users a productivity boost.

Quick Find / Search... [Expand All](#) [Collapse All](#)

All Users

On this page you can create, view, and manage users.

In addition, download SalesforceA to view and edit user details, reset passwords, and perform other administrative tasks from your mobile devices: [iOS](#) | [Android](#)

View: [All Users](#) [Edit](#) [Create New View](#)

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

Action	Full Name	Alias	Username	Role	Active	Profile
Edit	Chatter Expert	Chatter	chatty.00d2w00000rcpxeap.03ivvzb0ql@chatter.salesforce.com		✓	Chatter Free User
Edit	Evangeline, Evangeline	EEvan	leena23@salesforce.com		✓	System Administrator
Edit	Kumar, Prem	okuma	evanlu@gmail.com	Operator 1	✓	Standard Platform User
Edit	Moan, Tikku	lmoan	lavevanlu2013@gmail.com	Operator 2	✓	Standard Platform User
Edit	Teddy, John	lotv	evangelinelineena520@gmail.com	Vehicle Manager	✓	Vehicle Manager
Edit	User, Integration	intep	integration@00d2w00000rcpxeap.com		✓	Analytics Cloud Integration User
Edit	User, Security	sec	insightssecurity@00d2w00000rcpxeap.com		✓	Analytics Cloud Security User

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

Milestone 7: Permission set

Description:

Created a Permission set for object "Vehicle" and "Driver".

It's Better in Lightning
Move to Lightning Experience and give your users a productivity boost.

Quick Find / Search... [Expand All](#) [Collapse All](#)

Permission Sets

On this page you can create, view, and manage permission sets.

In addition, you can use the SalesforceA mobile app to assign permission sets to a user. Download SalesforceA from the App Store or Google Play: [iOS](#) | [Android](#)

[All Permission Sets](#) [Edit](#) [Delete](#) [Create New View](#)

[New](#) [Add](#)

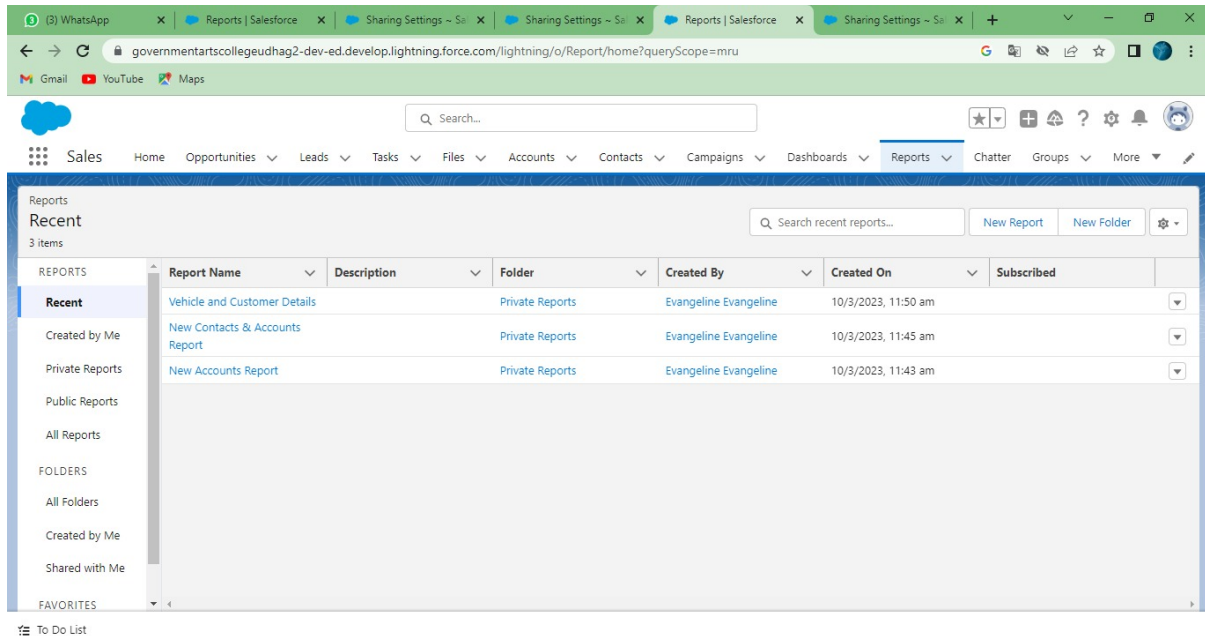
Action	Permission Set Label	Description	License
Clone	Buyer	Allows access to the store. Lets users see products and c...	B2B Buyer Permission Set One Seat
Clone	Buyer Manager	Includes all Buyer capabilities, and allows access to man...	B2B Buyer Manager Permission Set One Seat
Clone	CRM User	Denotes that the user is a Sales Cloud or Service Cloud ...	CRM User
Clone	Commerce Admin	Allow access to commerce admin features.	Commerce Admin Permission Set License Seat
Clone	Contact Center Admin	Manage Service Cloud Voice contact centers that use Am...	Service Cloud Voice User

1-25 of 25 0 Selected [Previous](#) [Next](#) Page 1 of 1

Milestone 8:

Description:

Created a report using object “Vehicle” and “Driver”.



4. TRAILHEAD PROFILE PUBLIC URL:

Team Lead (Yasshwanth J): <https://trailblazer.me/id/yaashwanthj>

Team Member 1(Evangeline S): <https://trailblazer.me/id/evangelineleena>

Team Member 2(Indhu k): <https://trailblazer.me/id/indhu03>

Team Member 3(Lavanya C): <https://trailblazer.me/id/lchinraj>

Team Member 4(Kirubakaran N): <https://trailblazer.me/id/kkaran69>

5. ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

- 1. Low fuel consumption** – By implementing fleet management techniques This Solution continually updates the energy consumption, which reduces the use of fuel over the long term. The solution also includes the forecast of the path to the destination that

determines the shortest distance that will get you to the destination while minimizing traffic. One of the primary factors in determining the most efficient path is the time it takes to get to the destination.

2. Tracking in real-time – The solution offered by Vehicle Management in Salesforce makes it possible to monitor vehicles in real-time, thereby increasing efficiency and reliability. Additionally, sharing real-time information with customers aids in facilitating the process of estimating pick-up times and time to the location, and the transfer of location information to customers' mobile phones.

3. Safe and secure – The safety of passengers is assured by storing details about the drivers who operate the vehicles. The company keeps the contact information that allows them to contact the driver concerned if a difficulty or problem arises. This will also ensure the security that the driver is protected in event of any threat from the client. The fleet management system tracks the operating vehicle. If any anomalies are identified, it immediately alerts the head of the team over the heads. This ensures the safety of both parties and security.

DISADVANTAGES:

- **Learning Curve:** As with all software systems, fleet management software also comes with a certain learning curve. Some systems can be so complicated that without aid from the software provider, you might not unlock the true potential of the tool at hand.
- **Extra Cost:** Sure, you are bound to gain a lot from using a fleet management software system. The profits you'll make due to the software aid will eventually make up for the initial subscription cost. However, if you are a small business owner, the initial cost might seem like too much.
- **Infrastructure Needs:** You'll face issues using fleet management software systems if you don't have proper network infrastructure. Without a stable Internet connection at all times, you will be missing out on the 'real-time' aspect of these systems. However, you can hardly do anything effectively without proper network infrastructure anyway.

- **Resistance From Staff:** At least initially, your staff might resist adopting fleet management software systems because they will be under complete surveillance. However, once you explain the [benefits they get from automation](#), the integration process should become smoother.

6. APPLICATIONS:

- **Improved Fuel Economy** — Tracking fuel usage encourages drivers to conserve fuel, reducing use by a substantial amount.
- **Less Engine Idle Time** - An idle engine wastes both time and fuel. Tracking idle time allows managers to correct driver behaviors to reduce waste.
- **Improved Driver Performance** - A driver's harsh braking, quick turns, and excessive speed are tracked so these actions can be addressed by management.
- **Reduced Overtime** - Tracking driver's hours in real-time helps avoid unwarranted over-time and HOS violations and extra costs.
- **Improved Efficiency** - Location tracking helps dispatchers and route planners create efficient routes and correct wayward vehicles instantly.

7. CONCLUSION:

Vehicle management is essential to a smooth operating fleet of vehicles, no matter the size. Tracking the location and condition of the vehicles, maintenance schedules, and fuel usage helps manage costs and keeps the equipment working longer.

Likewise, tracking the behaviors and habits of drivers ensures the vehicles are operated safely and efficiently which helps keeps costs low. If you're interested in learning more about fleet management, please [contact us](#) at Wilmar Inc. Our Vehicle management specialists will be happy to answer any questions you have.

8. FUTURE SCOPE:

To assist in the tracking of vehicles operation and the planning of maintenance (i.e.: replacement of spare parts, etc.) that is important to avoid any damage/unexpected problem that might occur in the future that

may cause hindrance to the operation and/or risking the safety of the drivers and passengers.

THANK YOU