

GOVERNMENT ART AND SCIENCE COLLEGE, T.C.KOOTROAD,VANNUR

VEHICLE MANAGEMENT SYSTEM USING SALESFORCES

2023

By

R. PARAMESWARI

III B.SC MATHEMATICS

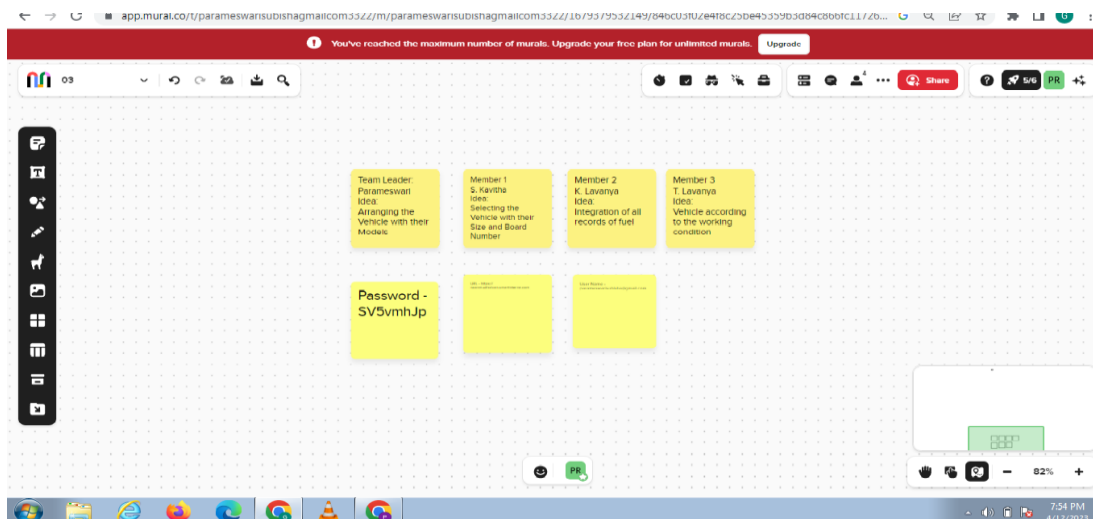
# INTRODUCTION

## 1.1 overview

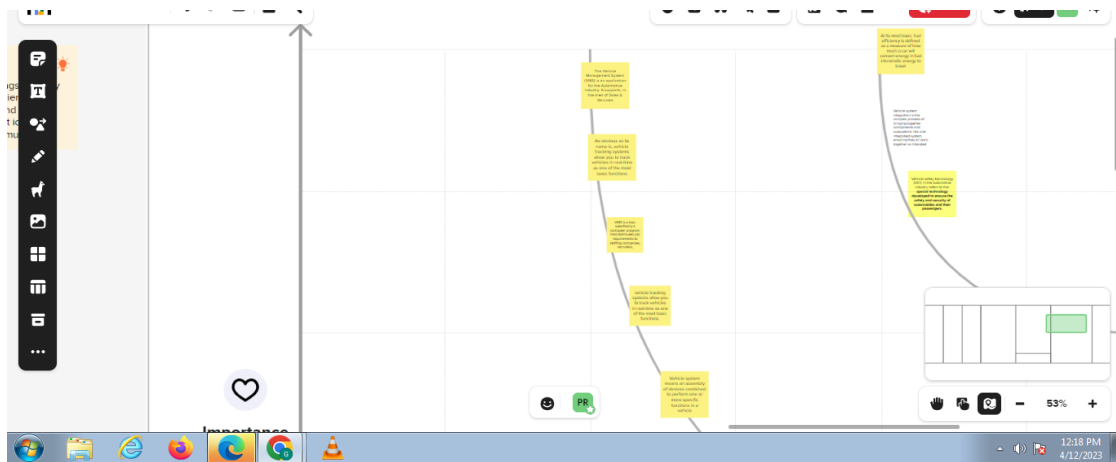
- Vehicle Management Systems (VMS) have become increasingly important over time in space missions, due both to the demands for increased flexibility and capability of these missions, and the supply of increasingly capable computing systems to provide this improved functionality. VMSs include the management of uncertainties in vehicle state, which is the vehicle portion of System Health Management (SHM), and the management and control of vehicle components to achieve external goals, which we will term “System Operations Management” (SOM). SHM and SOM functions can be allocated to humans or machines, whether on the ground or on-board. To the extent these are allocated to the vehicle’s machines (as opposed to crew), these are part of the Vehicle Management System.

# PROBLEM DEFINITION & DESIGN THINKING

## 2.1 EMPATHY MAP



## IDEATION & BRAINSTORMING MAP



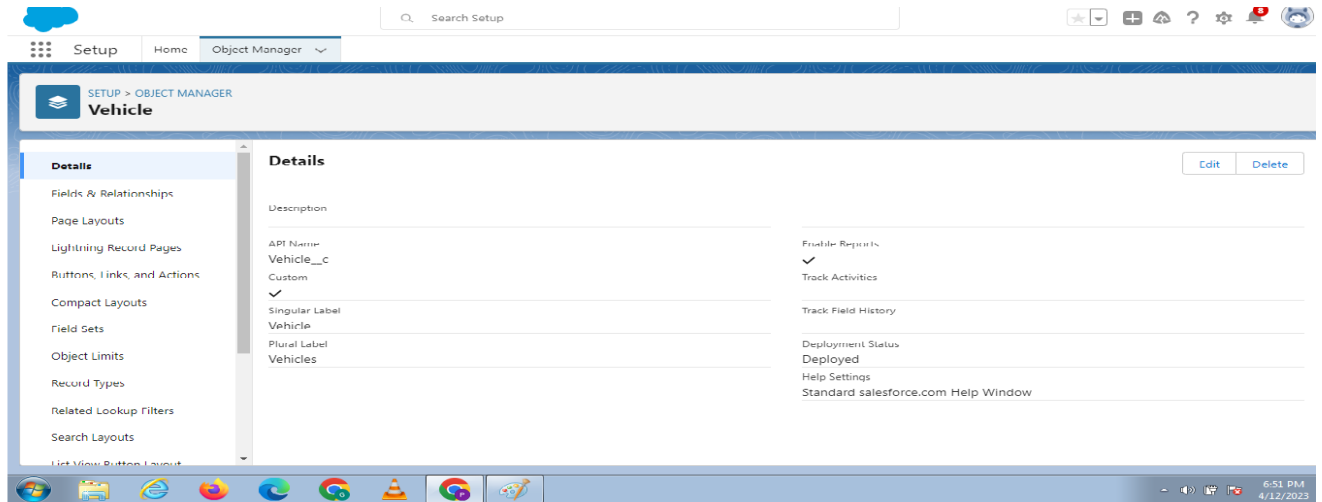
## 3. RESULT

Object name	Field in the object	
	Field label	Data type
Object 1	Vehicle	Text
Object 2	Field label	Data type
	Driver	Text

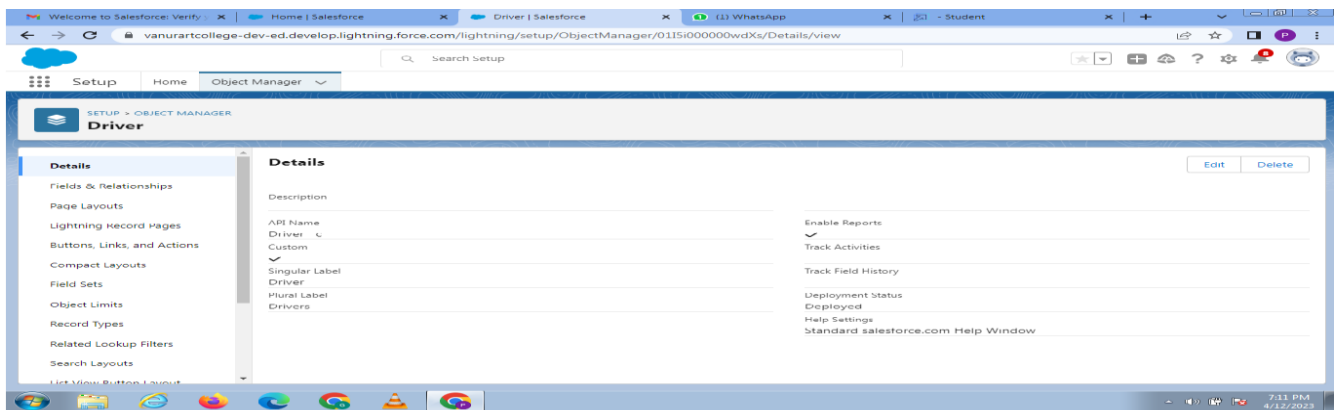
## 3.2 ACTIVITY & SCREENSHOT

### CREATION OF OBJECT

## ACTIVITY 1

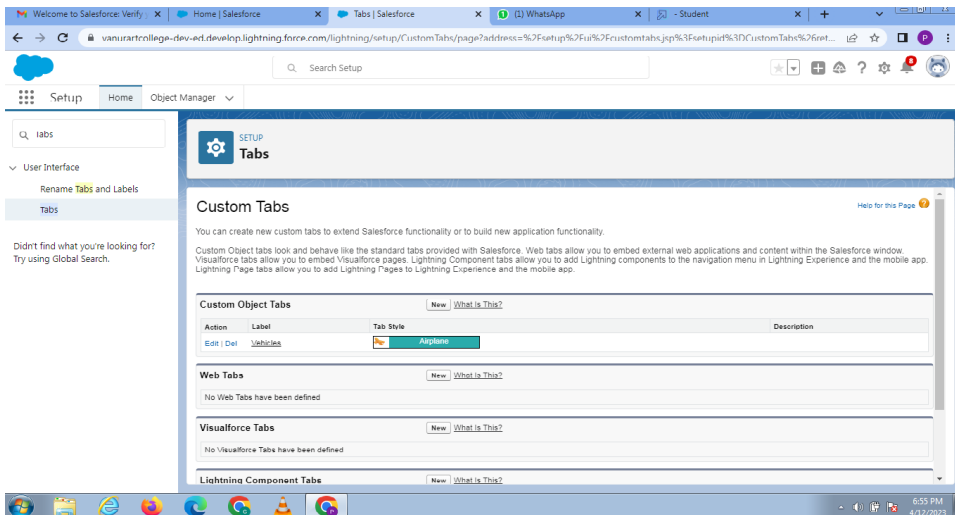


## ACTIVITY 2

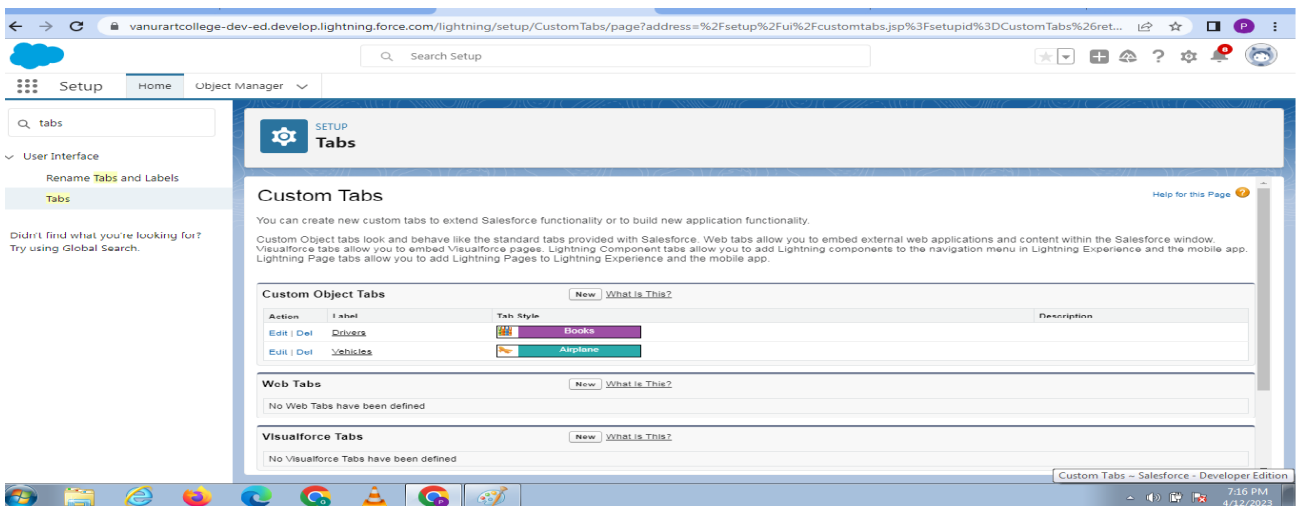


## CREATION OF TABS

### ACTIVITY 1

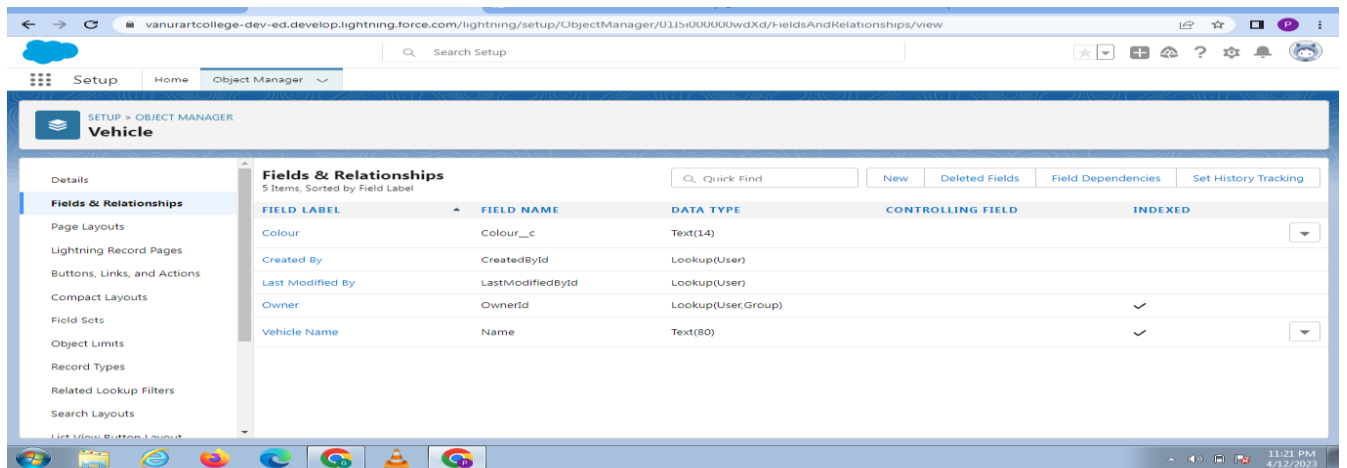


## ACTIVITY 2

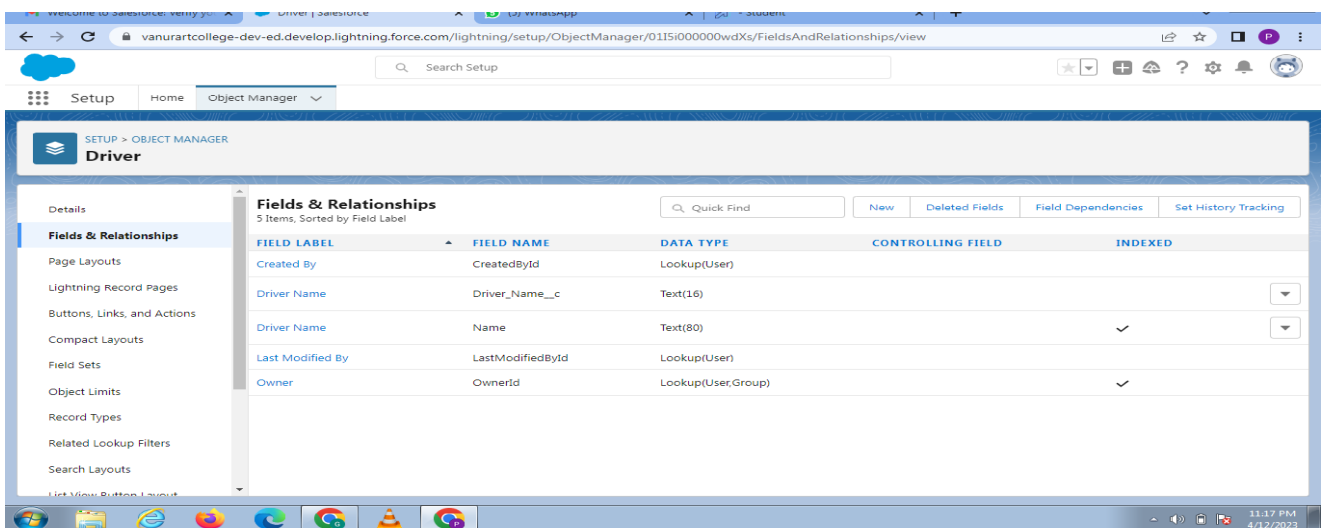


## CREATION OF FIELDS

## ACTIVITY 1



## ACTIVITY 2



## CREATION OF VEHICLE MANAGEMENT APP

17	Salesforce Schedul...	LightningScheduler	Set up personalized appointment scheduling.	12/04/2023, 3:57 pm	Lightning	✓	▼
18	Service	Service	Manage customer service with accounts, contacts, cases, and ...	12/04/2023, 3:56 pm	Classic	✓	▼
19	Service Console	LightningService	(Lightning Experience) Lets support agents work with multiple...	12/04/2023, 3:56 pm	Lightning	✓	▼
20	Site.com	Sites	Build pixel-perfect, data-rich websites using the drag-and-dro...	12/04/2023, 3:56 pm	Classic		▼
21	Subscription Mana...	RevenueCloudConsole	Get started automating your revenue processes	12/04/2023, 3:56 pm	Lightning	✓	▼
22	Vehicle Management	Vehicle_Management		12/04/2023, 11:44 ...	Lightning	✓	▼

## CREATION OF PROFILE

### ACTIVITY 1

The screenshot displays the Salesforce Setup interface for the 'Standard Platform User' profile. The left sidebar shows the navigation menu with 'Profiles' selected under the 'Users' section. The main content area shows the profile details for 'Standard Platform User'.

**Profile Detail**

Name	User License	Custom Profile
Standard Platform User	Salesforce Platform	<input type="checkbox"/>

Created By: Parameswari R. 12/04/2023, 3:56 pm  
Modified By: Parameswari R. 12/04/2023, 11:16 pm

**Page Layouts**

Standard Object Layouts	Global	Object Milestone
Global Layout	Global Layout	Object Milestone Layout
Email Application	Not Assigned	Operating Hours Layout
Home Page Layout	Home Page Default	Order Layout
Account	Account Layout	Order Product Layout

### ACTIVITY 2

The screenshot shows the Salesforce Setup interface for the 'System Administrator' profile. The left sidebar contains a navigation menu with categories like Users, Profiles, Data, Feature Settings, and Marketing. The main content area displays the profile details for 'System Administrator', including a list of enabled permissions (e.g., Login IP Ranges, Enabled Apex Class Access) and a table of assigned page layouts. The 'Page Layouts' table lists standard object layouts (Profile: System Administrator - Salesforce - Developer Edition) and custom layouts for various objects like Email Application, Home Page Layout, Account, Object Milestone, Operating Hours, Opportunity, and Opportunity Product.

## ACTIVITY 3

The screenshot shows the Salesforce Setup interface for the 'Operator' profile. The left sidebar contains a navigation menu with categories like Users, Profiles, Data, Feature Settings, and Marketing. The main content area displays the profile details for 'Operator', including a list of enabled permissions (e.g., Login IP Ranges, Enabled Apex Class Access) and a table of assigned page layouts. The 'Page Layouts' table lists standard object layouts (Global) and custom layouts for various objects like Email Application, Home Page Layout, Account, Object Milestone, Operating Hours, Opportunity, and Opportunity Product.

## CREATING A USERS

## ACTIVITY 1



vanurartcollege-dev-ed.develop.lightning.force.com/lightning/setup/ManageUsers/page?address=%2F0055i000007WUotAAG%3FnoRedirect%3D1%26isUserEntityOverr...

Search Setup

Setup Home Object Manager

Quick Find

Home

Setup Assistant

Factor Authentication Assistant

Updates

Lightning Experience Transition Assistant

Lightning Mobile App

Lightning Usage

Lightning

ADMINISTRATION

Users

CRM TOOLS

Script Management

SETUP Users

User Profile Help for this Page

User: Panu R

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 Membership (0) | Queue Membership (0) | Team (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 (0) | User Provisioning Accounts (0)

User Detail

Name	Panu R	Role	Account 1
Alias	pr	User License	Salesforce
Email	parameswarisubisha@gmail.com	Profile	Vehicle Manager
Username	paramu20@vanur.gasc	Active	<input checked="" type="checkbox"/>
Nickname	User1661364189437764507	Marketing User	<input type="checkbox"/>
Title	Vehicle Management system using salesforce	Offline User	<input type="checkbox"/>
Company	Vanur.gasc	Knowledge User	<input type="checkbox"/>
Department		Flow User	<input type="checkbox"/>
Division		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	<a href="#">View</a>
Delegated Approver		Data.com User Type	<a href="#">View</a>

8:09 PM 4/13/2023

## ACTIVITY 2

vanurartcollege-dev-ed.develop.lightning.force.com/lightning/setup/ManageUsers/page?address=%2F0055i000006etZAAL%3FnoRedirect%3D1%26isUserEntityOverr...

Search Setup

Setup Home Object Manager

Quick Find

Setup Home

Service Setup Assistant

Multi-Factor Authentication Assistant

Release Updates

Lightning Experience Transition Assistant

Salesforce Mobile App

Lightning Usage

Optimizer

ADMINISTRATION

Users

Permission Set Groups

Permission Sets

Profiles

Public Groups

Queues

SETUP Users

User Profile Help for this Page

User: Parameswari R

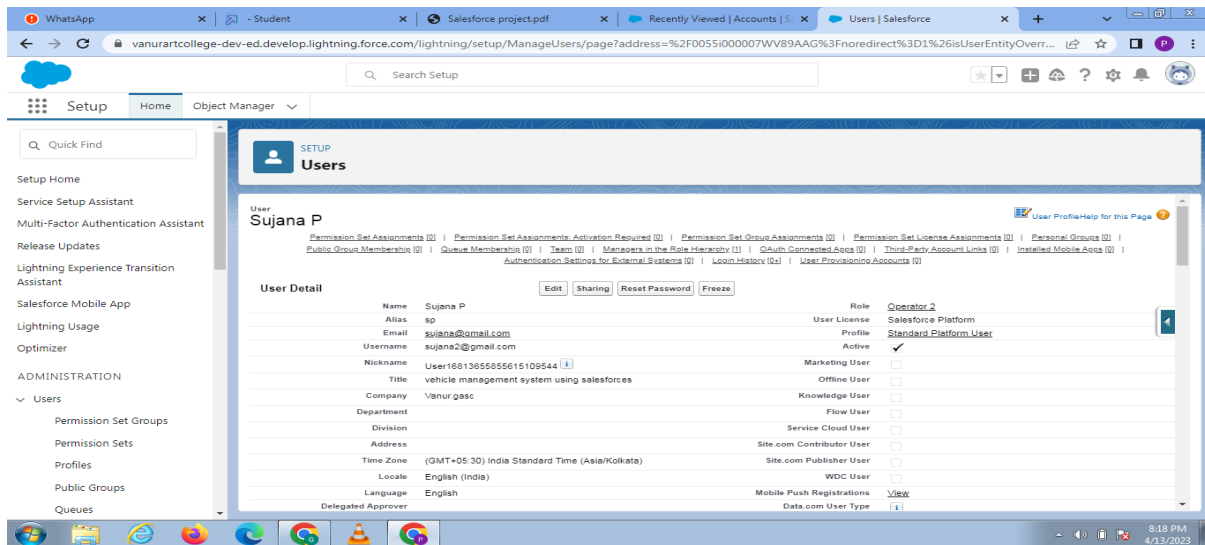
Permission Set Assignments (1) | Permission Set Assignments Activation Required (0) | Permission Set Group Assignments (0) | Permission Set License Assignments (0) | Personal Groups (0) | Public Group Membership (0) | Queue Membership (0) | Team (0) | Managers in the Role Hierarchy (0) | OAuth Connected Apps (0) | Third-Party Account Links (0) | Installed Mobile Apps (0) | Authentication Settings for External Systems (0) | Login History (0) | User Provisioning Accounts (0)

User Detail

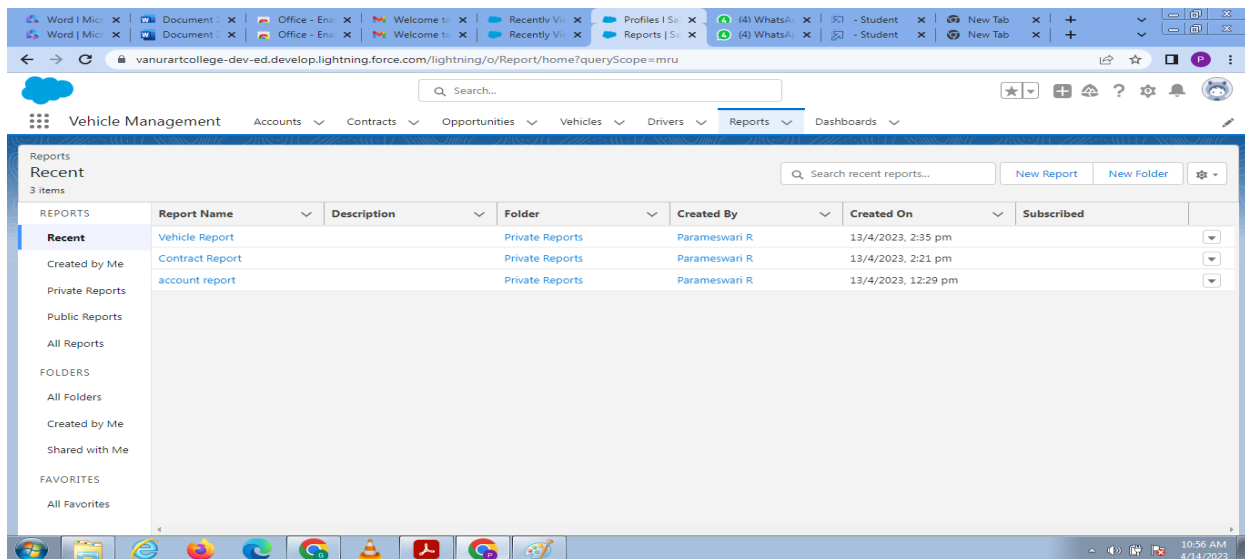
Name	Parameswari R	Role	Vehicle Manager
Alias	PR	User License	Salesforce
Email	parameswarisubisha@gmail.com	Profile	System Administrator
Username	paramu@vanur.gasc	Active	<input checked="" type="checkbox"/>
Nickname	User16612951650949024157	Marketing User	<input checked="" type="checkbox"/>
Title		Offline User	<input checked="" type="checkbox"/>
Company	vanur art college	Knowledge User	<input type="checkbox"/>
Department		Flow User	<input type="checkbox"/>
Division		Service Cloud User	<input checked="" type="checkbox"/>
Address	IN	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	<a href="#">View</a>
Delegated Approver		Data.com User Type	<a href="#">View</a>

9:16 PM 4/13/2023

## ACTIVITY 3



## CREATE A REPORT



## 4. TRAILHEAD PROFILE PUBLIC URL:

**TEAM LEADER(R. PARAMESWARI)- <https://trailblazer.me/id/parar6>**

**TEAM MEMBER 1 (K. LAVANYA)- <https://trailblazer.me/id/lavak321>**

**TEAM MEMBER 2 (S. KAVITHA)- <https://trailblazer.me/id/kkavitha27>**

**TEAM MEMBER 3 (T. LAVANYA)- <https://trailblazer.me/id/lavat5>**

## **5. ADVANTAGES :**

- The essential benefits offered by these systems relative to manually controlled vehicles are improved operating efficiency and vehicle safety.
- While the technical feasibility of such systems has been demonstrated, issues of cost and liability risk pose major barriers for near-term deployment on production vehicles.

## **DISADVANTAGES:**

There are several disadvantages of a vehicle management system that should be considered, including:

- **Cost:** Implementing a vehicle management system can be expensive, as it requires investment in hardware, software, and staff training. This cost may be prohibitive for smaller businesses or organizations.
- **Maintenance:** Like any system, a vehicle management system requires regular maintenance to keep it functioning properly. This can be time-consuming and expensive, and failure to perform proper maintenance can lead to system failures or data errors.
- **Complexity:** Vehicle management systems can be complex and difficult to understand, especially for employees who are not familiar with technology. This can result in errors and inefficiencies if users are not properly trained on how to use the system.

- **Security:** Vehicle management systems can contain sensitive data, such as driver and vehicle information, that must be protected from unauthorized access. This requires robust security measures to be implemented and maintained.
- **Dependence on technology:** Vehicle management systems rely on technology, which can fail or become outdated. This can result in system downtime, lost data, or the need for expensive upgrades.

## **6. APPLICATION**

- The essential benefits offered by these systems relative to manually controlled vehicles are improved operating efficiency and vehicle safety.
- While the technical feasibility of such systems has been demonstrated, issues of cost and liability risk pose major barriers for near-term deployment on production vehicles.

## **7.CONCLUSION**

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

## **8.FUTURE SCOPE**

The future scope of a vehicle management system is promising and offers opportunities for continued growth and improvement. Here are some potential future developments

- **Integration with smart technology:** With the rise of the Internet of Things (IoT), there is an opportunity to integrate a vehicle management system with smart technology such as sensors and devices that can monitor and analyze vehicle performance data in real-time.

- **Predictive maintenance:** Predictive maintenance is a data-driven approach that uses machine learning algorithms to predict when maintenance is required, based on factors such as vehicle usage and performance data. This feature could help to reduce maintenance costs and improve vehicle uptime.
- **Autonomous vehicles:** As self-driving technology continues to advance, vehicle management systems will need to adapt to manage fleets of autonomous vehicles. This could include features such as remote monitoring, real-time diagnostics, and scheduling for maintenance and repairs.
- **Analytics and reporting:** There is potential for vehicle management systems to provide advanced analytics and reporting features, such as predictive cost analysis and real-time performance metrics. This could help organizations optimize their fleet operations and make data-driven decisions.
- **Integration with other systems:** A vehicle management system could be integrated with other business systems, such as accounting software or inventory management systems, to provide a more comprehensive view of the organization's operations.
- **In conclusion,** the future scope of a vehicle management system is bright and offers numerous opportunities for continued innovation and improvement. With the advancement of technology and data-driven approaches, we can expect to see more sophisticated features and functionalities that will help organizations optimize their fleet operations and reduce costs.