

VEHICLE MANAGEMENT SYSTEM USING SALESFORCE

SUBMITTED BY

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1 INTRODUCTION

1.1 Overview

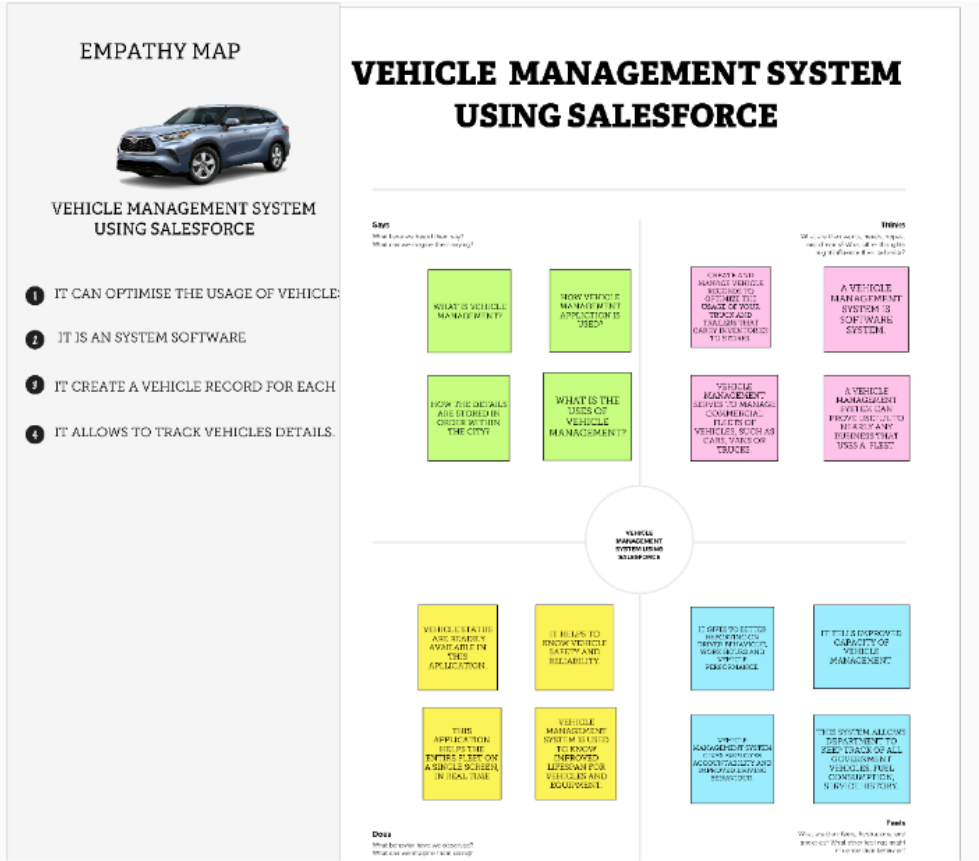
Vehicle Management System is software which is helpful for bus operators, who wants to operate many bus trips in a day. Vehicle Management System is a windows application written for 32-bit Windows operating systems which focused in the area of adding, editing and deleting the passengers, staff and the bus routes. In this software a person can be register as a user and he can manage the bus routes and the staff, passengers details. He can add a bus and its details including bus route details. User can also add the details of the staff and their duty time in the system.

1.2 Purpose

A vehicle management system keeps the record of every important function & daily activities such as vehicle type, vehicle fitness, document validity date, insurance policy, etc. It also keeps the record of driver & helper details to monitories & improves their productivity. Beside trip & fleet operation records also be recorded by it. To keep your company lifetime detail a vehicle management system provides you the best opportunity.

2 Problem Definition & Design Thinking

2.1 Empathy Map



2.2 Ideation & Brainstorming Map

BRAINSTORMING

VEHICLE MANAGEMENT SYSTEM USING SALESFORCE

S.SURIYA

VEHICLE MANAGEMENT SYSTEM IS SOFTWARE

WHICH IS HELPFUL FOR BUS OPERATORS WHO WANTS TO OPERATE MANY BUS TRIP IN A DAY

IT IS AN 32-BIT WINDOWS OPERATING SYSTEM

THIS SOFTWARE CONTAIN 5 MODULES

S.VIGNESHWARAN

IT GIVES MULTIPLE DETAILS IN SINGLE SOFTWARE

VEHICLE MANAGEMENT SYSTEM GIVES THE SURVEY OF VEHICLES

IT IS AN VEHICLE DATABASE

VMS IS COMPLETELY INTEGRATED INTO THE SAP APPLICATION COMPONENTS

S.VINOTHINI

VEHICLE MANAGEMENT SYSTEM IS AN APPLICATION FOR THE AUTOMOTIVE INDUSTRY

IT SUPPORTS .IN THE AREA OF SALES AND SERVICE

VMS SERVES AS A CENTRAL TOOL FOR MANAGING DISTRIBUTION AND TRACKING OF VEHICLES

THIS APPLICATION OFFERS PROCUREMENT, SALES, REWORK, RETURNS PROCESSING TRADE-IN

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

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

VMS offers you complete integration of all the relevant processes such as procurement, sales, rework, returns processing, trade-in and service processing. It also supports the archiving of vehicle data. In other words, it allows you to react flexibly to customers' requirements in the area of production (using the 'pull strategy') and fast delivery times with reduced warehouse stock and sales/distribution costs

For the vehicle importer , VMS serves as a central tool for managing, procuring, sales/distribution and tracking of vehicles. Your dealers use it as a workplace for configuration, searching, purchasing, and tracking of vehicles for your end customers

3 RESULT

3.1 Data Model

Object Name	Fields in the Object	
Vehicle	Field label	Data type
	Customer Name	Text
	Customer Mobile No	Number
	2WHEELERS	Picklist
	Vehicle name	Text
Driver	Field label	Data type
	Driver Name	Text
	Licence No	Text
	Mobile No	Number
	Fair Per Hour	Text

3.2 Activity & Screenshot

MILESTONE 1:Creation Salesforce Org:



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Company*
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Country/Region*
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Postal Code*
621211

Username*
vinos@aaagacm.com

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MILESTONE 2:OBJECT

Activity:1 To create an Vehicle Object

The screenshot shows the Salesforce Object Manager interface for the 'Vehicle' object. The browser address bar displays the URL: `arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w00000408eu/Details/view`. The page title is 'Vehicle'. The left sidebar contains a list of configuration options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The 'Details' section is active, showing the following configuration:

Field	Value
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

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

Activity 2 To create a driver Object

The screenshot shows the Salesforce Object Manager interface for the 'Driver' object. The browser address bar displays the URL: `arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w00000408zL/Details/view`. The page title is 'Driver'. The left sidebar contains a list of configuration options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The 'Details' section is active, showing the following configuration:

Field	Value
Description	
API Name	Driver__c
Custom	✓
Singular Label	Driver
Plural Label	Drivers
Enable Reports	✓
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

MILESTONE:3 :Fields and Relationship

Activity 1: Creation of fields in vehicle object

Browser address bar: arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w00000408eu/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

Vehicle

Details

Fields & Relationships

21 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
2WHEELERS	X2WHEELERS__c	Picklist	Vehicle Type	
4WHEELERS	X4WHEELERS__c	Picklist	Vehicle Type	
Body Type	Body_Type__c	Text(25)		
Chassic No	Chassic_No__c	Text(25)		
Colour	Colour__c	Text(25)		
Condition	Condition__c	Picklist		
Created By	CreatedById	Lookup(User)		

Activity 2 Fields in Driver object

arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w0000040BzL/FieldsAndRelationships/view

Gmail YouTube Maps New Tab

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Driver

Details

Fields & Relationships

9 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Driver Name	Driver_Name__c	Text(25)		
Driver Name	Name	Text(80)		✓
Fair Per Hour	Fair_Per_Hour__c	Text(25)		
Last Modified By	LastModifiedById	Lookup(User)		
License No	License_No__c	Text(25)		
Mobile No	Mobile_No__c	Number(18, 0)		

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Activity 3

Fields in driver object create a dependency

← → ↻ arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w0000040Beu/FieldsAndRelationships/viewDependencyList

Gmail YouTube Maps New Tab

Search Setup

Setup Home Object Manager

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

Vehicle Field Dependencies

« Back to Custom Object: Vehicle

This page allows you to define dependencies between fields (e.g., dependent picklists).

Field Dependencies New

Action	Controlling Field	Dependent Field	Modified By
Edit Del	Vehicle Type	2WHEELERS	Vinothini S , 29/03/2023, 9:43 pm
Edit Del	Vehicle Type	4WHEELERS	Vinothini S , 29/03/2023, 9:47 pm

MILESTONE 4:Lightning App

Activity:1 Create the Vehicle Management Construction app

Browser address bar: arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/o/Account/list?filterName=Recent

Navigation bar: Vehicle Management | Accounts | Contacts | Opportunities | Vehicles | Drivers | Reports | Dashboards

Accounts Recently Viewed

0 items • Updated a few seconds ago

Search this list...

<input type="checkbox"/>	Account Name	Account Site	Phone	Account Owner Alias
You haven't viewed any Accounts recently. Try switching list views.				

MILESTONE 5:Profile

Activity 1:Creating a Profile

arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/setup/EnhancedProfiles/page?address=%2F00e2w000005d6Dq%2Fe%3FretURL%3D%252F...

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Search Setup

Setup Home Object Manager

profiles

Users

Profiles

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

SETUP Profiles

Profile Edit
Vehicle Manager

Set the permissions and page layouts for this profile.

Profile Edit Save Save & New Cancel

Name Vehicle Manager

User License Salesforce Custom Profile ✓

Description

Custom App Settings

Visible Default

All Tabs (standard__AllTabSet)	<input checked="" type="checkbox"/>	<input type="radio"/>	Sales (standard__Sales)	<input checked="" type="checkbox"/>	<input checked="" type="radio"/>
Analytics Studio (standard__Insights)	<input checked="" type="checkbox"/>	<input type="radio"/>	Sales Console (standard__LightningSalesConsole)	<input checked="" type="checkbox"/>	<input type="radio"/>
App Launcher (standard__AppLauncher)	<input checked="" type="checkbox"/>	<input type="radio"/>	Salesforce Chatter (standard__Chatter)	<input checked="" type="checkbox"/>	<input type="radio"/>

Required Information

Setup Roles

Home | Salesforce X Recently Viewed | Accounts | Salesforce X Roles | Salesforce X +

arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/lightning/setup/Roles/home

Gmail YouTube Maps New Tab

Search Setup

Setup Home Object Manager

roles

Users Roles Feature Settings Sales Service Case Teams

Contact Roles on Contracts

Contact Roles on Opportunities

Case Team Roles

Contact Roles on Cases

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

Roles

Creating the Role Hierarchy

You can build on the existing role hierarchy shown on this page. To insert a new role, click **Add Role**.

Your Organization's Role Hierarchy Show in tree view

Arignar Anna Government Arts College, Musiri

- Add Role**
- CEO** Edit Del Assign
 - Add Role**
 - CFO** Edit Del Assign
 - Add Role**
 - COO** Edit Del Assign
 - Add Role**
 - SVP, Customer Service & Support** Edit Del Assign
 - Add Role**
 - Customer Support, International** Edit Del Assign
 - Add Role**
 - Customer Support, North America** Edit Del Assign
 - Add Role**
 - Installation & Repair Services** Edit Del Assign

MILESTONE 6:Users

Activity 1:Creating a users

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

MILESTONE 7:REPORTS

Activity 1: To create a report

← → ↻ arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/one/app#eyJjb21wb25lbnREZWYiOiJyZXBvcnRzOnJlcG9ydEJ1aWxkZXIiLCJhdHRyaWJ1dGVzlp7In... ☆ □ 8

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Search...

Vehicle Management Accounts ▾ Contacts ▾ Opportunities ▾ Vehicles ▾ Drivers ▾ Reports ▾ Dashboards ▾

REPORT ▾

New Accounts Report Accounts

↻ ↺ Add Chart Save & Run Save Close Run

Outline Filters 2

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
No records returned. Try editing report filters:						
• Show All accounts.						
• Set the Created Date filter to All Time.						
• Edit other filters in the filter panel.						

Groups

GROUP ROWS

Add group...

Columns

Add column...

Last Activity X

Account Owner X

Account Name X

Billing State/Province X

Type X

Rating X

Last Modified Date X

Activity 2 : To create a dashboard

← → ↻ arignarannagovernmentart-f6-dev-ed.develop.lightning.force.com/one/app#eyJjb21wb25lbnREZWYiOiJkZXNrdG9wRGFzaGJvYXJkczpkYXNoYm9hcmQlLCJhdHRyaWJ1dGVzlp7In... ☆ □ 8

Gmail YouTube Maps New Tab

Search...

Vehicle Management Accounts ▾ Contacts ▾ Opportunities ▾ Vehicles ▾ Drivers ▾ Reports ▾ Dashboards ▾

vehicle and customer detail

+ Component + Filter ↻ ↺ ⚙ Save Done

Dashboard grid with 10 columns and 10 rows.

4 Trailhead Profile Public URL

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

Team Member 1 – <https://trailblazer.me/id/vickys21>

Team Member 2– <https://trailblazer.me/id/vinothini31>

5 ADVANTAGES & DISADVANTAGE

ADVANTAGES OF VEHICLE MANAGEMENT SYSTEM

It is widely accepted by VMS that available feature changes the playing field by providing numerous benefits. The science of Vehicle Management has been forever changed by these advantages:

- Improved Customer Service: more accurate prediction of arrival times, faster pickups and deliveries (dispatch closest vehicle by having real time information), reduce operator tardiness (information makes managing this a reality), Resolve Billing Disputes (recorded arrival and departure times)
- Efficient Logistics Management: assist lost drivers, eliminate employee downtime, Dispatch at a glance (view part or the entire Vehicle), knowledge will create confidence and reduce stress and assures better management decisions (route evaluation, attract and retrain the best employees, efficient scheduling)
- Profitability: serve more customers in less time, save on gas and slow Vehicle wear and tear, reduce unnecessary overtime, minimize unauthorized use of company vehicles, fewer resources to do equal or more work

DISADVANTAGES OF VEHICLE MANAGEMENT SYSTEM

- It is difficult to track the occupancy.
- More manual hours need to generate required reports.
- There is no possibility to track the approvals of requests.

6 APPLICATIONS

The vehicle management solutions we create include but not limited to:

- Vehicle Fuel Tracking Systems. Our software engineers create robust solutions for cost-effective and accurate management of fuel.
- Vehicle Maintenance Software Solutions.
- Vehicle Tracking Systems.
- Vehicle Inventory Management Systems.
- The Vehicle Management System In PHP is a simple mini project for management the vehicles, buses & cars of RUET.

- In RUET there are many vehicles that can be hired for money. The project contains the admin side and the user side.
- The admin can control all the vehicle request and check if the request can be granted or not. They can update the driver and vehicle list, add new vehicles, etc.
- An admin can control the whole booking process from the admin panel like which car to give to a certain user and which driver etc. As a whole, the admin has all the power to control the whole management process.

7 CONCLUSION

The Corporate Company's Vehicle Management application has a rich user interface so that novice users can access easily. This application provides the management reports like Occupancy report, Approval status report, to track the usage of company's transport facility.

Our project is only a humble venture to satisfy the needs in a library. Several user-friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the organization. The objective of software planning is to provide a framework 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. Last but not least it is not the work that played the ways to success but ALMIGHTY.

8 FUTURE SCOPE

VMS is a web-based solution, to fulfill the Falcon Motors requirements. VMS is an integrated web-based solution comprising of following modules:

- Vehicle Management
- Tyre Management
- Workshop
- Trip Planning
Trip
- Incidents and Accidents
- Reports

The scope of this project is to enhance the facilities available in the current notepad system and different security measures would be applicable in the future for the student point of view and management point of view. The application would be fruitful.

