

**PROJECT REPORT TEMPLATE**  
**VEHICLE MANAGEMENT SYSTEM USING**  
**SALESFORCE**

**TEAM ID : NM2023TMID18360**

**1.INTRODUCTION:**

**1.1 Overview :**

Create and manage vehicle records to optimize the usage of your trucks and trailers that carry inventories to stores.

To track the vehicle that carry goods out of a warehouse, assign them to that warehouse.

**1.2 Purpose :**

The use of this project :

- Low fuel consumption
- Tracking in real-time
- Safe and secure
- GPS vehicle tracking through mobile app
- Vehicle maintenance and management
- Control of fuel consumption
- Driver safety and management
- Dispatch management

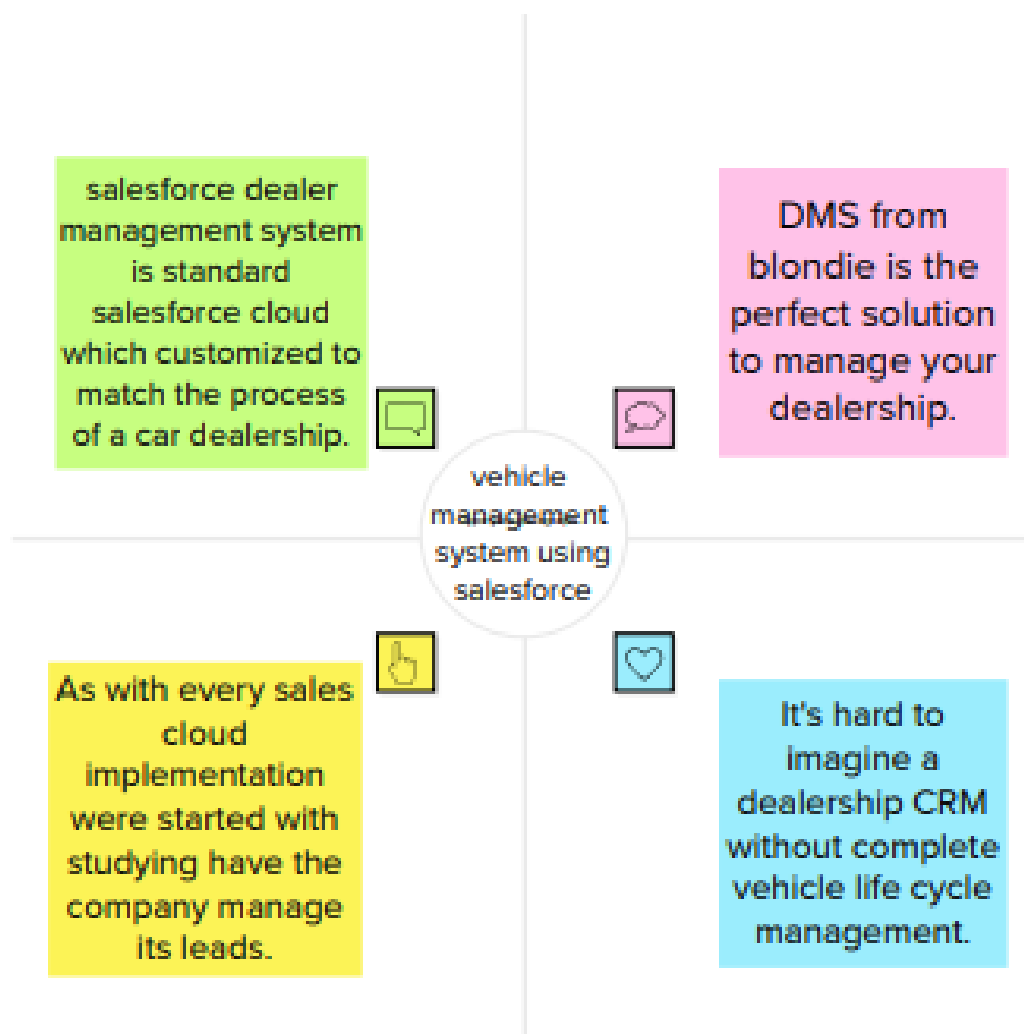
What can be achieved using this :

Automation that offloads repetitive work, AI that increase efficiency and customer experience, a combination of workflow automation, real-time

decisioning, and low-code usability, support for complex process, ideal for large enterprises, real-time customer context to “proactively – even preemptively – engage” with customers.

## **2. PROBLEM DEFINITION & DESIGN THINKING**

### **2.1 Empathy Map :**



## 2.2 Brainstorming :

A vehicle management system is a term that encompasses smart, forward-thinking usage and tracking of all fleet movements.

A VMS gives you a transparent view of metrics by turning each vehicle into a data node, complete with login capabilities.

VMS as onboard systems that manage a vehicle's internal capabilities to accomplish its mission goals.

### **3. RESULT**

#### **3.1 Data Model :**

Object name	Fields in the object	
Vehicle	Field label	Data type
	Chassic No	Text
	Colour	Text
Driver	Field label	Data type
	Licence No	Text
	Mobile No	Number

Search...

Search

Naresh V

Setup

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Build

Customize

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Lightning Bolt

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Optimizer

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Time-Based Workflow

Automated Process Actions

Case Escalations

Entitlement Processes

API Usage Notifications

Mass Emails

Email Snapshots

Jobs

Logs

Getting Started

Dismiss

Build App

Generate a basic app with just one step, and then easily extend that app with clicks or code.

Add App

Salesforce Lightning

Turn on the power, speed, and simplicity of the new Salesforce user experience

Get Started

System Overview

Expand

You have a message.

Expand to see messages or go to the system overview page to see additional limits.

Recent Items

Name	Type	Object
supportforce	Custom App	
vehicle	Custom Object Definition	
driver	Custom Object Definition	
driver Layout	Page Layout	driver
Fair Per Hour	Custom Field Definition	driver
Mobile no	Custom Field Definition	driver
Licence no	Custom Field Definition	driver
Driver Name	Custom Field Definition	driver
vehicle	Custom Field Definition	driver
vehicle Layout	Page Layout	vehicle

Quick Links

Tools

Users

App

App Quick Start

Schema Builder

New custom object

New user

Add multiple users

Reset users' passwords

Manage apps

Manage profiles

Enable Chatter feeds

Security

Data

New profile

New permission set

Add roles

Import accounts & contacts

Import custom objects

Mass delete records

Community

Dismiss

Resources

Collaborate & Discuss

Join the conversation.

Find Answers

Post your questions to the Community.

Ask a Question

Contribute Ideas

Share & vote for ideas to improve the product.

Post an Idea

Release Resources

Recommended Apps

Show All

Highspot Sales Enablement

by Highspot

★★★★★ (89)

Highspot and Salesforce drive consistent rep performance via sales enablement. Highspot surfaces...

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Build

- Customize

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Objects

Big Objects

Picklist Value Sets

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Logs

Standard Fields (4) | Custom Fields & Relationships (5) | Validation Rules (0) | Page Layouts (1) | Field Sets (0) | Compact Layouts (1) | Search Layouts (5) | Buttons, Links, and Actions (8) | Record Types (0) | Apex Sharing Reasons (0) | Apex Sharing Recalculation (0) | Object Limits (10)

Custom Object Definition

EditDelete

Detail

Singular Label	driver	Description	
Plural Label	drivers	Enable Reports	<input checked="" type="checkbox"/>
Object Name	driver	Track Activities	<input type="checkbox"/>
API Name	driver__c	Allow in Chatter Groups	<input type="checkbox"/>
		Allow Sharing	<input checked="" type="checkbox"/>
		Allow Bulk API Access	<input checked="" type="checkbox"/>
		Allow Streaming API Access	<input checked="" type="checkbox"/>
		Track Field History	<input type="checkbox"/>
		Enable Licensing	<input type="checkbox"/>
		Deployment Status	Deployed
		Allow Search	<input checked="" type="checkbox"/>
		Help Settings	Standard salesforce.com Help Window
		Modified By	Naresh.V. 29/03/2023, 5:11 pm

Created By

Naresh.V. 29/03/2023, 2:46 pm

Standard Fields Help

Action	Field Label	Field Name	Data Type	Controlling Field	Indexed
	Created By	CreatedBy	Lookup(User)		
Edit	driver Name	Name	Text(80)		<input checked="" type="checkbox"/>
	Last Modified By	LastModifiedBy	Lookup(User)		
Edit	Owner	Owner	Lookup(User,Group)		<input checked="" type="checkbox"/>

Custom Fields & Relationships Help

Action	Field Label	API Name	Data Type	Indexed	Controlling Field	Modified By
Edit   Del	Driver Name	Driver_Name__c	Text(70)			Naresh.V. 29/03/2023, 3:27 pm
Edit   Del	Fair Per Hour	Fair_Per_Hour__c	Text(70)			Naresh.V. 29/03/2023, 3:29 pm
Edit   Del	Licence no	Licence_no__c	Text(70)			Naresh.V. 29/03/2023, 3:28 pm
Edit   Del	Mobile no	Mobile_no__c	Number(18, 0)			Naresh.V. 29/03/2023, 3:28 pm
Edit   Del	vehicle	vehicle__c	Lookup(vehicle)	<input checked="" type="checkbox"/>		Naresh.V. 29/03/2023, 3:30 pm

Related Lookup Filters

No related lookup filters defined.

Validation Rules

New

No validation rules defined.

Validation Rules Help

Triggers

New

No triggers defined

Triggers Help

Page Layouts Help

Action	Page Layout Name	Created By	Modified By
Edit   Del	driver Layout	Naresh.V. 29/03/2023, 2:46 pm	Naresh.V. 29/03/2023, 3:30 pm

Field Sets

New

No field sets defined.

Field Sets Help

Compact Layouts Help

Action	Label	API Name	Primary	Modified By
	System Default	SYSTEM	<input checked="" type="checkbox"/>	

Search Layouts Help

Action	Layout	Columns Displayed	Buttons Displayed	Modified By
Edit	Lookup Dialogs	driver Name	N/A	Naresh.V. 29/03/2023, 2:46 pm
Edit	Lookup Phone Dialogs	driver Name	N/A	Naresh.V. 29/03/2023, 2:46 pm
Edit	drivers List View	N/A	New, Open in Quip, New From Document, Accept, Change Owner, Import, Change Owner, Printable View	Naresh.V. 29/03/2023, 2:46 pm
Edit	Search Filter Fields	N/A		Naresh.V. 29/03/2023, 2:46 pm

Buttons, Links, and Actions Help

Action	Label	Name	Description	Type	Content Source	Icon	Overridden
Edit	Accept	Accept			Standard page		<input type="checkbox"/>
Edit	Clone	Clone			Standard page		<input type="checkbox"/>
Edit	Delete	Delete			Standard page		<input type="checkbox"/>
Edit	drivers Tab	Tab			Standard page		<input type="checkbox"/>
Edit	Edit	Edit			Standard page		<input type="checkbox"/>
Edit	List	List			Standard page		<input type="checkbox"/>
Edit	New	New			Standard page		<input type="checkbox"/>
Edit	View	View			Standard page		<input type="checkbox"/>

Record Types

New

Page Layout Assignment

No record types defined

Record Types Help

Apex Sharing Reasons

New

No Apex sharing reasons defined.

Apex Sharing Reasons Help

Apex Sharing Recalculation

New

Recalculate Apex Sharing

No Apex sharing recalculations defined

Apex Sharing Recalculation Help

Object Limits Help

Item	Usage	Limit	% used	Message
Custom Fields	5	500	1%	
Custom Relationship Fields	1	40	2%	
Active Workflow Rules	0	50	0%	
Total Workflow Rules	0	500	0%	
Approval Processes	0	500	0%	
Active Lookup Filters	0	5	0%	
Active Validation Rules	0	100	0%	
VLOOKUP Functions	0	10	0%	
Sharing Rules (Both Owner- and Criteria-based)	0	300	0%	
Sharing Rules (Criteria-based Only)	0	50	0%	

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Search...

Search

Narash V

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Custom Object

vehicle

Help for this Page

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Custom Fields & Relationships (17)

Validation Rules (0)

Page Layouts (1)

Field Sets (0)

Compact Layouts (1)

Search Layouts (6)

Buttons, Links, and Actions (8)

Record Types (0)

Apex Sharing Reasons (0)

Apex Sharing Recalculation (0)

Object Limits (10)

Custom Object Definition

Edit

Delete

Singular Label

vehicle

Description

Plural Label

vehicles

Enable Reports

Object Name

vehicle

Track Activities

API Name

vehicle\_\_c

Allow in Chatter Groups

Allow Sharing

Allow Bulk API Access

Allow Streaming API Access

Track Field History

Enable Licensing

Deployment Status

Deployed

Allow Search

Help Settings

Modified By

Narash V 29/03/2023, 2:50 pm

Created By

Narash V 29/03/2023, 2:44 pm

Standard Fields

Standard Fields Help

Action

Field Label

Field Name

Data Type

Controlling Field

Indexed

Created By

CreatedBy

Lookup(User)

Last Modified By

LastModifiedBy

Lookup(User)

Owner

Owner

Lookup(User,Group)

vehicle\_\_c

Name

Text(80)

Custom Fields & Relationships

Custom Fields & Relationships Help

Action

Field Label

API Name

Data Type

Indexed

Controlling Field

Modified By

Edit | Del | Replace

2 WHEELERS

X2\_WHEELERS\_\_c

Picklist

Narash V 29/03/2023, 3:06 pm

Edit | Del | Replace

4 WHEELERS

X4\_WHEELERS\_\_c

Picklist

Narash V 29/03/2023, 3:10 pm

Edit | Del

body type

body\_type\_\_c

Text(70)

Narash V 05/04/2023, 2:57 pm

Edit | Del

chassis no

chassis\_no\_\_c

Text(70)

Narash V 05/04/2023, 2:58 pm

Edit | Del

colour

colour\_\_c

Text(70)

Narash V 05/04/2023, 2:59 pm

Edit | Del | Replace

condition

condition\_\_c

Picklist

Narash V 29/03/2023, 3:19 pm

Edit | Del

customer mobile no

customer\_mobile\_no\_\_c

Number(18, 0)

Narash V 29/03/2023, 2:56 pm

Edit | Del

customer name

customer\_name\_\_c

Text(70)

Narash V 29/03/2023, 2:52 pm

Edit | Del

End Date

End\_Date\_\_c

Date/Time

Narash V 29/03/2023, 3:22 pm

Edit | Del

mileage

mileage\_\_c

Text(70)

Narash V 05/04/2023, 2:58 pm

Edit | Del

Opportunity

Opportunity\_\_c

Lookup(Opportunity)

Narash V 29/03/2023, 3:25 pm

Edit | Del

seats

seats\_\_c

Number(18, 0)

Narash V 29/03/2023, 3:21 pm

Edit | Del

start date

start\_date\_\_c

Date/Time

Narash V 29/03/2023, 3:22 pm

Edit | Del | Replace

vehicle includes

vehicle\_includes\_\_c

Picklist (Multi-Select)

Narash V 29/03/2023, 3:17 pm

Edit | Del

vehicle name

vehicle\_name\_\_c

Text(70)

Narash V 05/04/2023, 3:01 pm

Edit | Del

vehicle no

vehicle\_no\_\_c

Text(70)

Narash V 05/04/2023, 3:08 pm

Edit | Del | Replace

vehicle type

vehicle\_type\_\_c

Picklist

Narash V 29/03/2023, 2:59 pm

Related Lookup Filters

No related lookup filters defined.

Validation Rules

New

Validation Rules Help

No validation rules defined.

Triggers

New

Triggers Help

No triggers defined.

Page Layouts

New

Page Layout Assignment

Page Layouts Help

Action

Page Layout Name

Created By

Modified By

Edit | Del

vehicle Layout

Narash V 29/03/2023, 2:44 pm

Narash V 29/03/2023, 3:30 pm

Field Sets

New

Field Sets Help

No field sets defined.

Compact Layouts

New

Compact Layout Assignment

Compact Layouts Help

Action

Label

API Name

Primary

Modified By

System Default

SYSTEM

Search Layouts

Search Layouts Help

Action

Layout

Columns Displayed

Buttons Displayed

Modified By

Edit

Lookup Dialogs

vehicle Name

N/A

Narash V 29/03/2023, 2:44 pm

Edit

Lookup Phone Dialogs

vehicle Name

N/A

Narash V 29/03/2023, 2:44 pm

Edit

vehicles List View

N/A

New, Open in Quip, New From Document, Accept, Change Owner, Import, Change Owner, Printable View

Narash V 29/03/2023, 2:44 pm

Edit

Search Filter Fields

N/A

Narash V 29/03/2023, 2:44 pm

Buttons, Links, and Actions

Buttons, Links, and Actions Help

Action

Label

Name

Description

Type

Content Source

Icon

Overridden

Edit

Accept

Accept

Standard page

Edit

Clone

Clone

Standard page

Edit

Delete

Delete

Standard page

Edit

Edit

Edit

Standard page

Edit

List

List

Standard page

Edit

New

New

Standard page

Edit

vehicles Tab

Tab

Standard page

Edit

View

View

Standard page

Record Types

New

Page Layout Assignment

Record Types Help

No record types defined.

Apex Sharing Reasons

New

Apex Sharing Reasons Help

No Apex sharing reasons defined.

Apex Sharing Recalculation

New

Recalculate Apex Sharing

Apex Sharing Recalculation Help

No Apex sharing recalculations defined.

Object Limits

Object Limits Help

Item

Usage

Limit

% used

Message

Custom Fields

17

500

3%

Custom Relationship Fields

1

40

2%

Active Workflow Rules

0

50

0%

Total Workflow Rules

0

500

0%

Approval Processes

0

500

0%

Active Lookup Filters

0

5

0%

Active Validation Rules

0

100

0%

VLOOKUP Functions

0

10

0%

Sharing Rules (Both Owner- and Criteria-based)

0

300

0%

Sharing Rules (Criteria-based Only)

0

50

0%

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#### **4. TRAILHEAD PROFILE PUBLIC URL**

Team Leader	- <a href="https://trailblazer.me/id/narev15">https://trailblazer.me/id/narev15</a>
Team Member 1	- <a href="https://trailblazer.me/id/nahamed17">https://trailblazer.me/id/nahamed17</a>
Team Member 2	- <a href="https://trailblazer.me/id/nithk22">https://trailblazer.me/id/nithk22</a>

#### **5. ADVANTAGES & DISADVANTAGES**

##### **Advantages :**

- Automated operations
- Low operational costs
- Higher profitability
- Better security
- Data Analytics

##### **Disadvantages :**

- Learning curve
- Extra cost
- Infrastructure Needs
- Resistance from staff

#### **6. APPLICATIONS**

- In order to avoid the limitations in the existing system the current system is being developed.
- All vehicle details will be automated along with the staff information.
- Scheduling of trips and repair information is being fully automated to overcome chaos in the system.



## **7. CONCLUSION**

The vehicle management system proposed to make easy process of managing vehicle with the objective to replace the current approach.

## **8. FUTURE SCOPE**

Single portable windows desktop application, easy to import and export data, customizable report.

relational database with module, vehicle data, log record, vehicle maintenance, fuel and distance calculation, insurance, service, oil and spare part, legal data, user right level access.

