Automated Car Catalog System for Enhanced Showroom Management

Project Documentation Format

1. Introduction

Project Name: Automated Car Catalog System for Enhanced Showroom Management

Team ID: LTVIP2025TMID29927

Team Leader: L Ganesh

• Team Members: Shaik Mohammad Irfan, Chennakeshava M, Chandra deepthi, Sujala

2. Project Overview

Objective:

To automate the car booking process through ServiceNow's Service Catalog, enabling users to request a vehicle (e.g., Thar), track approval, and manage fulfillment via tasks, with notification alerts and status updates..

• Description:

This project demonstrates how users can request a rental car via the Service Portal. A custom workflow manages multi-level approvals, task creation (car production, delivery, rejection), and status updates using the cars fulfillment table. Notifications are sent to users and showroom managers. The process enforces proper task flow, role-based actions, and final delivery tracking.

Key features:

Features	Description
Service Catalog Integration	Users can request vehicles via the portal
Workflow Automation	Multi-step workflow handles approval, task creation, and notifications
Custom Tables	Uses a custom table (cars fulfillment) for managing tasks
Notifications	HTML emails sent for booking and rejection events

Role-Based Task Handling	Sales and Supervisors handle approvals
Portal Visibility	Catalog visible in Service Portal under "Mahendra" catalog.

3. Project Ideation Phase

- Project Title: Car Rental Management in ServiceNow
- **Problem Statement**: Automating car rental workflows including approvals, fulfillment tasks, and communication in a structured and trackable manner.

4. Requirement Analysis Phase

- Catalog: Create custom catalog Mahendra
- Category: Add Thar under Mahendra
- Catalog Item: "Thar Rental" → Assigned to Mahendra Catalog and Thar category
- Workflow: Create workflow with:
 - Approval User (Sales, Supervisor)
 - Create Task: Car Production, Car Delivery
 - Notification: Booking and Rejection
- Table: Custom table cars fulfillment
- Roles: Sales Person, Supervisor
- Outcome: Car status managed with task updates (e.g., Ready to Pickup, Deployment Failed)

5. Project Planning Phase

1. Project Timeline:

- Ideation
- Catalog & Table Setup
- Workflow Design
- Portal Integration
- Task & Notification Setup
- Testing
- Final Demo

2. Risk Management:

Risk	Probability	Impact	Mitigation Strategy
Item not visible in portal	Medium	High	Check category, hide flag, and permissions
Notification not sent	Low	Medium	Test with debug logs
Task not created in fulfillment	Medium	High	Verify workflow task tables

1. Task Allocation:

Task	Assigned To	Time Estimate	Tools Required
Catalog Setup	Developer	1 Days	Service Catalog
Workflow \$ Approvals	Workflow desginer	2 Days	Workafole Editor
Task Table Design	Developer	1 Days	Table Builder
Notification Email Setup	Admin	1 Days	Notification UI
Portal Testing	Analyst	1 Days	Service portal

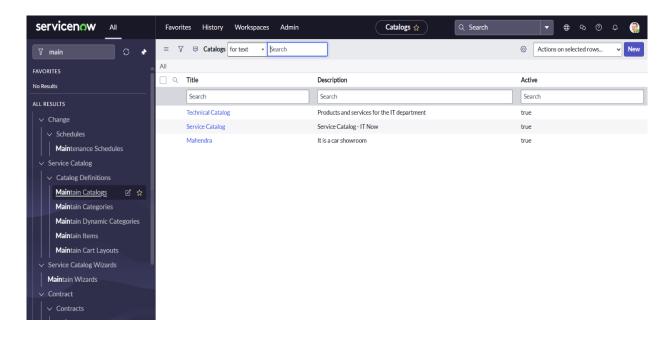
6. Project Design Phase

1. Service Catalog

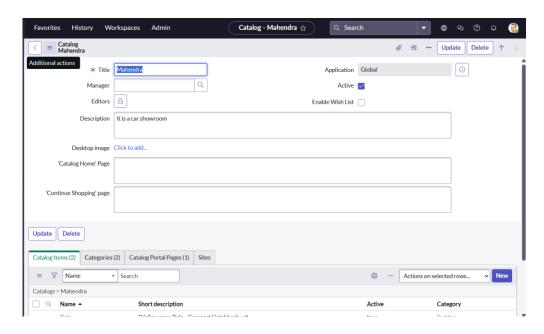
> Create Catalog

- Open service now.
- Click on All >> search for Maintain Catalog.

- Click on Maintain Catalog under Catalog Definition.
- After opening Maintain Catalog Click on new.
- Give Catalog Name as "Mahendra".
- Application should be Global.
- Give description as it is a car showroom.
- Click on Submit.

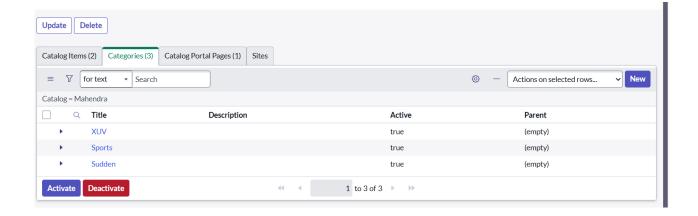


• Fill the following details to create catalog



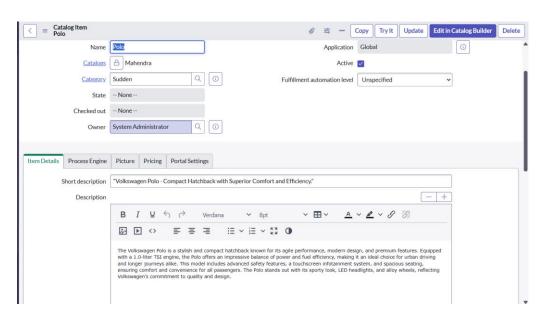
> Create Categories:

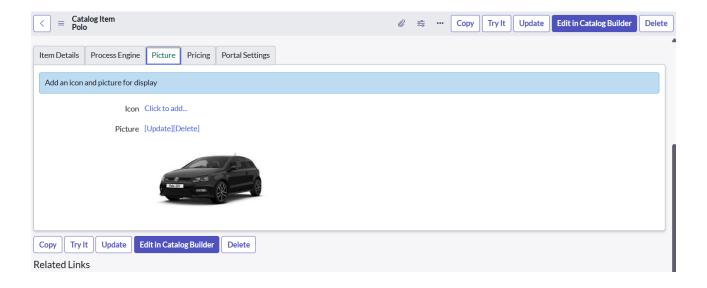
- After submitting you can see the catalog mahendra in the list.
- Open Mahendra Catalog Scroll down.
- Click Categories And Click on New.



> Sudden Catalog Items

- Give Title as Sudden.
- Search and add catalog as Mahendra.
- Click on submit.
- Create two more categories as XUV and Sports.
- Click on Catalog Items and Click on new.
- Give it a name as polo.
- Select catalog as Mahendra.
- Select category as Sudden.
- Short description as Volkswagen Polo Compact Hatchback with Superior Comfort and Efficiency.
- Give Description The Volkswagen Polo is a stylish and compact hatchback known for its agile performance, modern design, and premium features. Equipped with a 1.0-liter TSI engine, the Polo offers an impressive balance of power and fuel efficiency, making it an ideal choice for urban driving and longer journeys alike. This model includes advanced safety features, a touchscreen infotainment system, and spacious seating, ensuring comfort and convenience for all passengers. The Polo stands out with its sporty look, LED headlights, and alloy wheels, reflecting Volkswagen's commitment to quality and design.
- Click on Picture and add image.





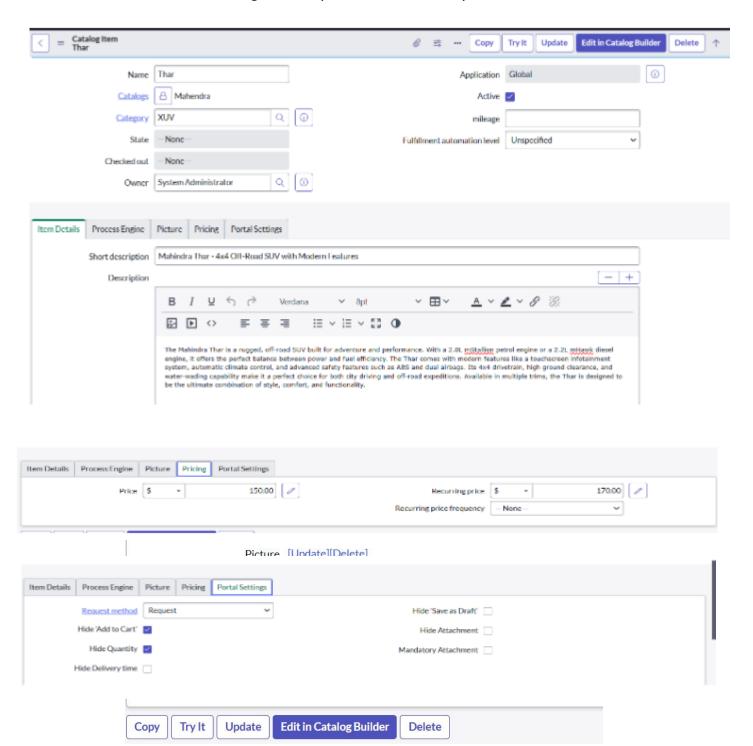


- Click on Pricing and give the price as 70 and recurring price 90.
- Click on Portal setting and Select request method as Request.
- Click on Submit.
- Click on new and create one more catalog.

> Thar Catalog item:

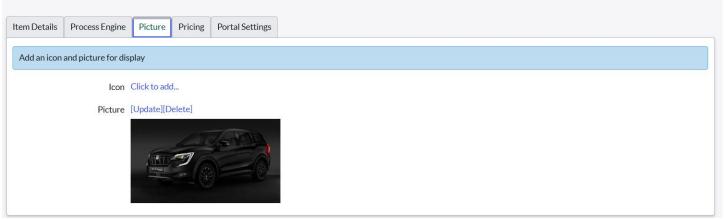
- Give it a name as Thar.
- Select catalog as Mahendra.
- Select category as XUV.
- Short description Mahindra Thar 4x4 Off-Road SUV with Modern Features
- Description The Mahindra Thar is a rugged, off-road SUV built for adventure and performance. With a 2.0L mStallion petrol engine or a 2.2L mHawk diesel engine, it offers the perfect balance between power and fuel efficiency. The Thar comes with modern features like a touchscreen infotainment system, automatic climate control, and advanced safety features such as ABS and dual airbags. Its 4x4 drivetrain, high ground clearance, and water-wading capability make it a perfect choice for both city driving and off-road expeditions. Available in multiple trims, the Thar is designed to be the ultimate combination of style, comfort, and functionality.

- Click on Picture and add image
- 34.price 150 to recurring price 170.
- Click on Portal settings and request method as Request.

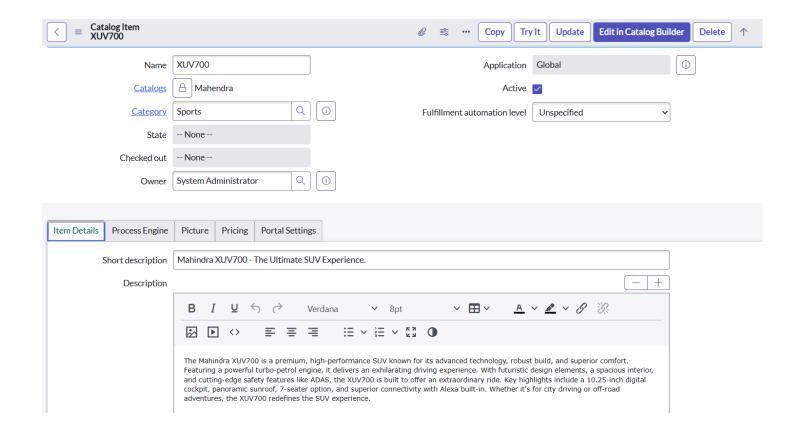


>XUV700 Catalog Item:

- Give it a name as XUV700.
- 37. Select catalog as Mahendra.
- 38. Select category as Sports.
- 39. Short description Mahindra XUV700 The Ultimate SUV Experience.
- 40. Description The Mahindra XUV700 is a premium, high-performance SUV known for its advanced technology, robust build, and superior comfort. Featuring a powerful turbopetrol engine, it delivers an exhilarating driving experience. With futuristic design elements, a spacious interior, and cutting-edge safety features like ADAS, the XUV700 is built to offer an extraordinary ride. Key highlights include a 10.25-inch digital cockpit, panoramic sunroof, 7-seater option, and superior connectivity with Alexa built-in. Whether it's for city driving or off-road adventures, the XUV700 redefines the SUV experience.
- Click on Picture and add image of car.
- Click on Pricing give price 200 to recurring price 211

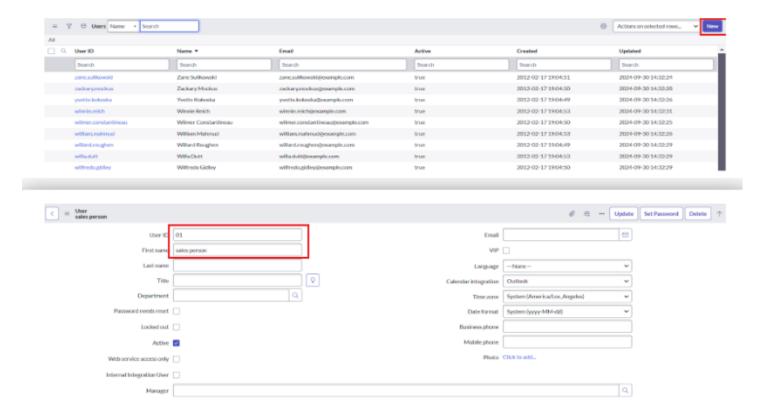


• Click on Portal Setting and give the Request method as Request.



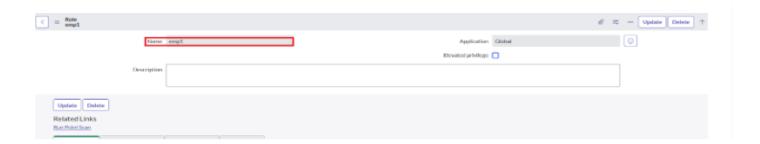
> Create a User:

- Open service now.
- 45. Click on All >> search for Users.
- 46. Click on Users>> under System Security
- 47. Click on new, give userId as 01 and name as sales person and add the role emp1.
- 48. Save and Submit.



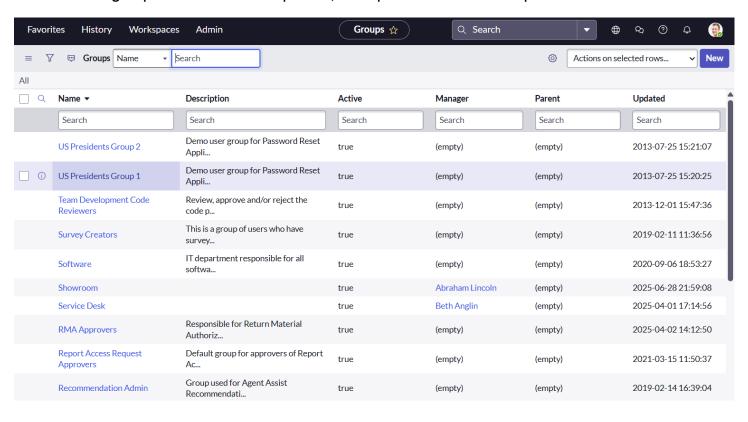
• Create Roles:

- Click on the Servicenow logo and click on all and search for roles.
- 50. Click on Roles >> Under system security.
- 51. Click on new and give the name as emp1.



> Create Group:

- Click on All>>Search for groups.
- Click on groups>>under Security System.
- Click on new and give the group's name as showroom.
- Give the group manager as Abraham lincoln. And Submit.
- Add group members as Salesperson, Salesperson2 and 3. And update.

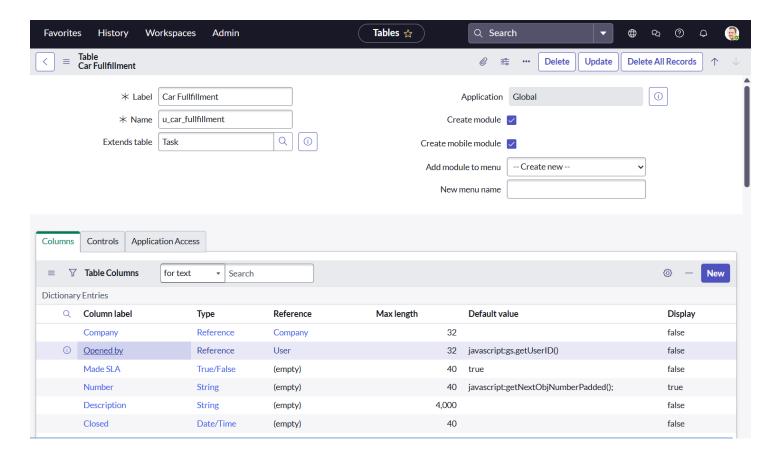






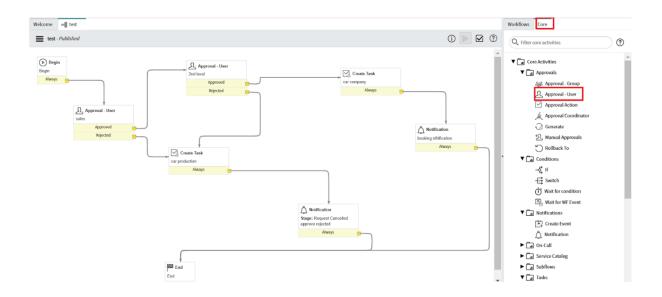
> Create a Table:

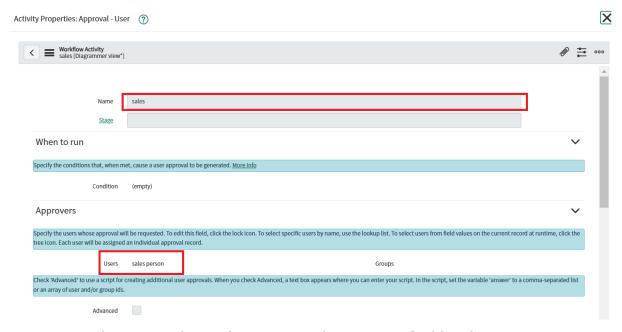
- Click on All>>Search for Tables.
- Click on Tables>>under System definition.
- Click on the new give name as cars fulfillment.
- Give extended table as Task table.
- Save and Submit.



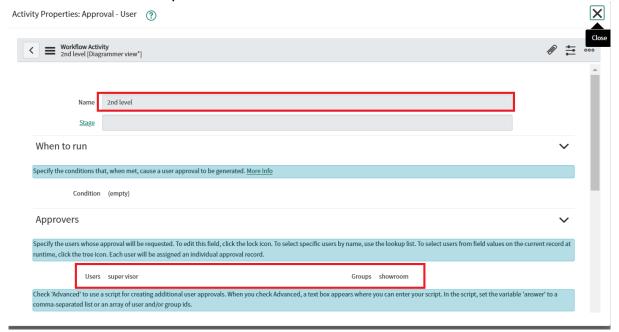
> Create a Workflow:

- Navigate to Homepage.
- Click on all search Workflow Editor.
- Click on New Workflow.
- Under the name field search for Test Select that record.
- After creating workflow you can see begin and end.
- Drag the approval user from core and give name as sales.
- Give the user as a sales person.

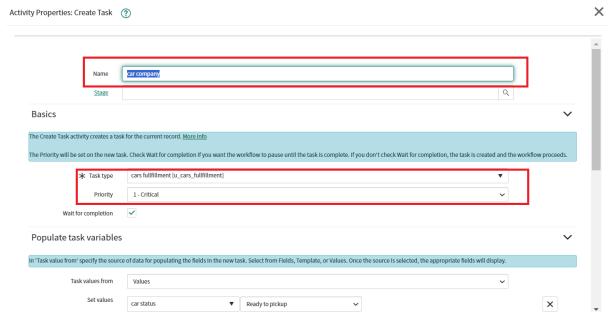




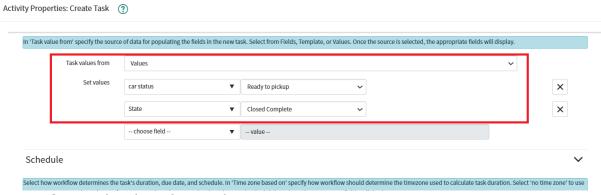
- Drag the approval user from core and give name 2nd level.
- Add a user as supervisor.



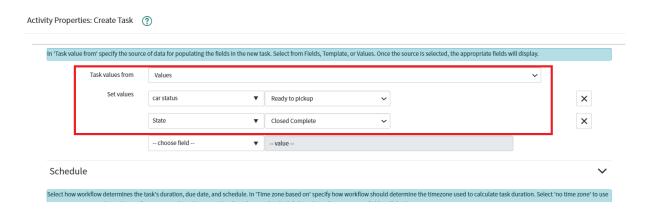
Drag create task from core and give name as car company



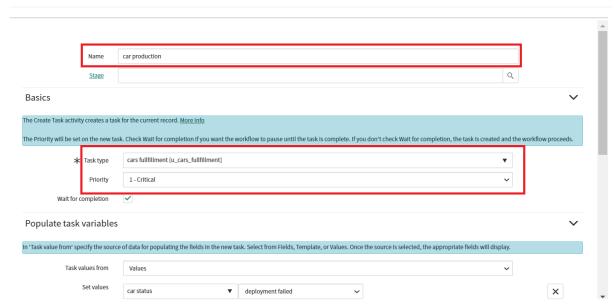
Give task type car fulfilment table and priority-1.



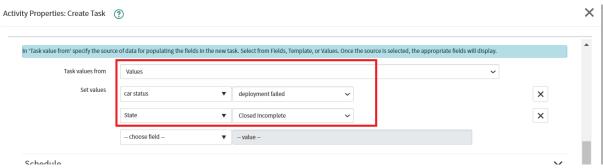
- Give task values from values
- Set values as car status Ready to Pickup.
- State Closed Complete and submit.



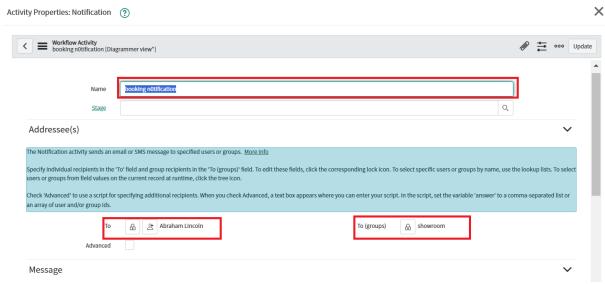
- Drag the create task from core and give it name as car production.
- Give task type car fulfilment table and priority-1.



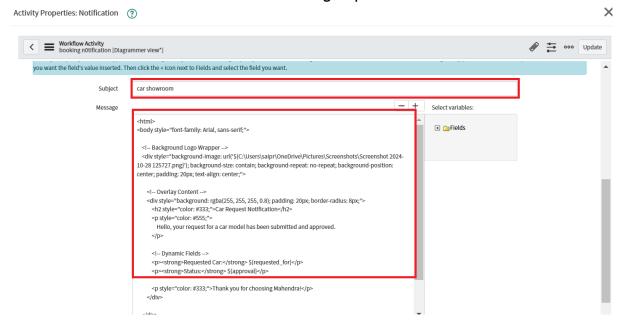
Give task values from values



- Set values as car status deployment failed.
- State closed Incomplete. And Submit.
- Drag Notification from core and give name as Booking Notification.



Add To user as Abraham Lincoln and group as Showroom.



 Give the subject as car showroom and message httml

<body style="font-family: Arial, sans-serif;">

<!-- Background Logo Wrapper -->

<div style="background-image: url('\${C:\Users\saipr\OneDrive\Pictures\Screenshots\Screenshot 202410-28 125727.png}'); background-size: contain; background-repeat: no-repeat; background-position:
center; padding: 20px; text-align: center;">

```
<div style="background: rgba(255, 255, 255, 0.8); padding: 20px; border-radius: 8px;">
<h2 style="color: #333;">Car Request Notification</h2>

Hello, your request for a car model has been submitted and approved.

<!-- Dynamic Fields -->
<strong>Requested Car:</strong> ${requested_for}
<strong>Status:</strong> ${approval}
Thank you for choosing Mahendra!
</div>
</div
```

Activity Properties: Notification ③

Workflow Activity

ar reject [Diagrammer view*]

Name

Car reject

Stage

Addressee(s)

The Notification activity sends an email or SMS message to specified users or groups. More Info

Specify individual recipients in the "To" field and group recipients in the "To" (groups)" field. To edit these fields, click the corresponding lock icon. To select specific users or groups by name, use the lookup lists. To select

Check 'Advanced' to use a script for specifying additional recipients. When you check Advanced, a text box appears where you can enter your script. In the script, set the variable 'an

Add To user as Abraham Lincoln and add group showroom.

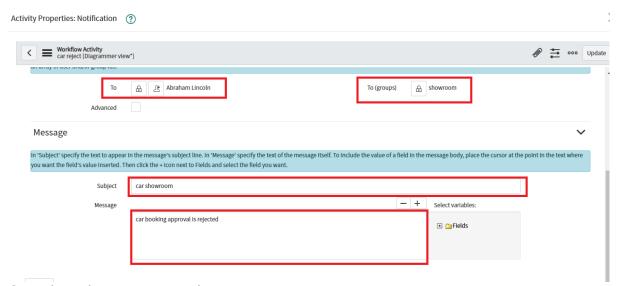
users or groups from field values on the current record at runtime, click the tree icon.

Advanced

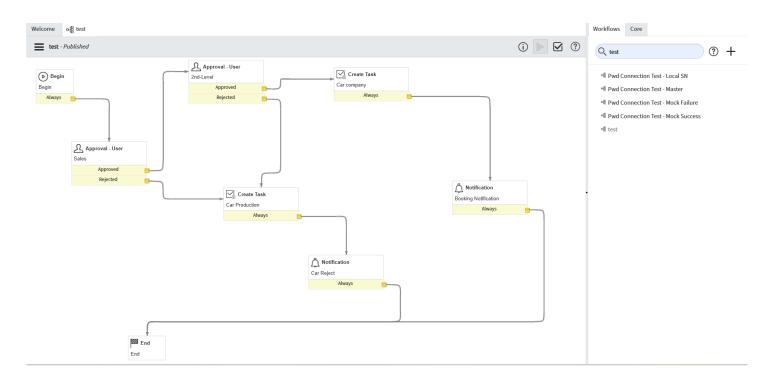
Message

Abraham Lincoln

Drag the Notification and give the name as car reject.

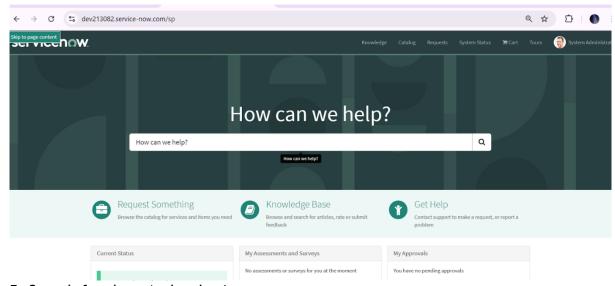


- Give the subject as a car showroom.
- Give a message as car booking approval is rejected.
- Submit and end

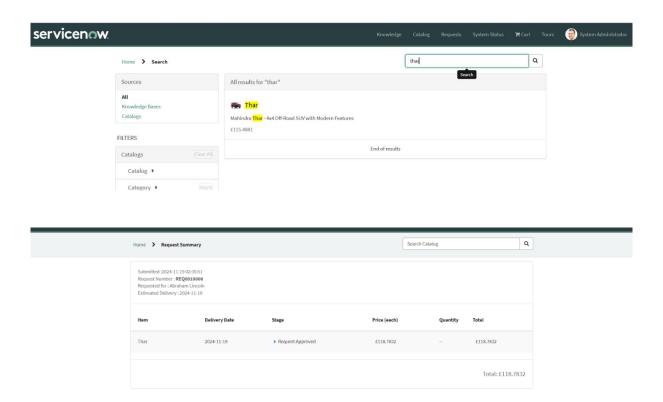


> Service Portal:

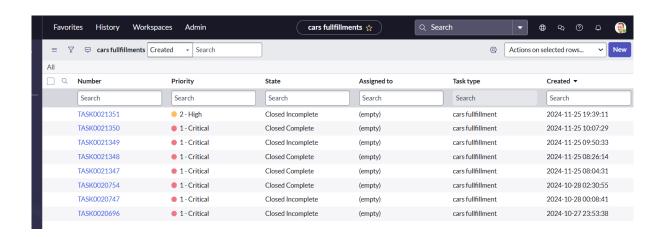
- Check the cars are available in the service portal. And order it.
- To open a service portal copy the url of your instance up to com/ and give sp press enter for example(https://dev266346.service-now.com/sp).
- 3. Search the catalog item which you are created.

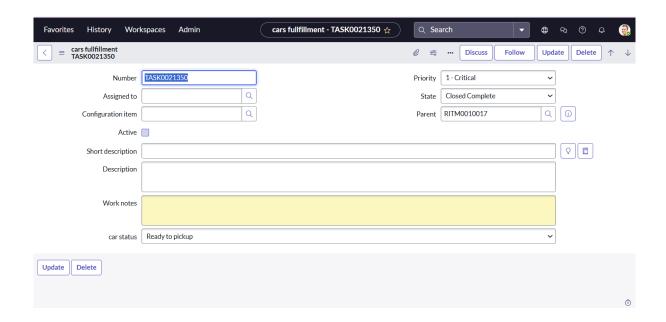


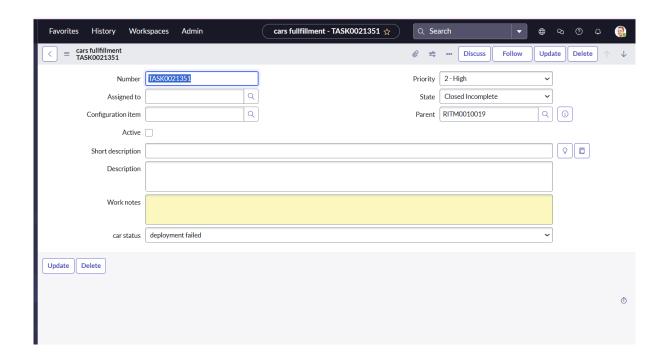
- 5. Search for thar. And order it.
- After ordering the car you get a request number and Delivery date.



- 7.After requesting an item and the request shown in Task table.
- In Task we Approve or reject the request.







Final Conclusion

The Car Rental project in ServiceNow successfully automates the car booking lifecycle, from request to fulfillment. It uses Service Catalog, custom workflow logic, user approvals, and dynamic task tracking via the cars fulfillment table. Notifications improve user engagement, and the project structure is scalable and enterprise-read