Automated Car Catalog System for Enhanced Showroom Management

Project Design Phase

Date	27-06-2025
Team ID	LTVIP2025TMID31351
Project Name	Automated Car Catalog System for Enhanced Showroom Management
Maximum Marks	4 Marks

Design Strategy

The design phase translates the project's functional and non-functional requirements into a practical and scalable system architecture within the ServiceNow platform. It focuses on defining the **catalog structure**, **roles**, **workflows**, **database schema**, **and user interaction flow**. The design ensures that each module of the solution works in harmony to deliver a streamlined and automated showroom management experience.

Design Components

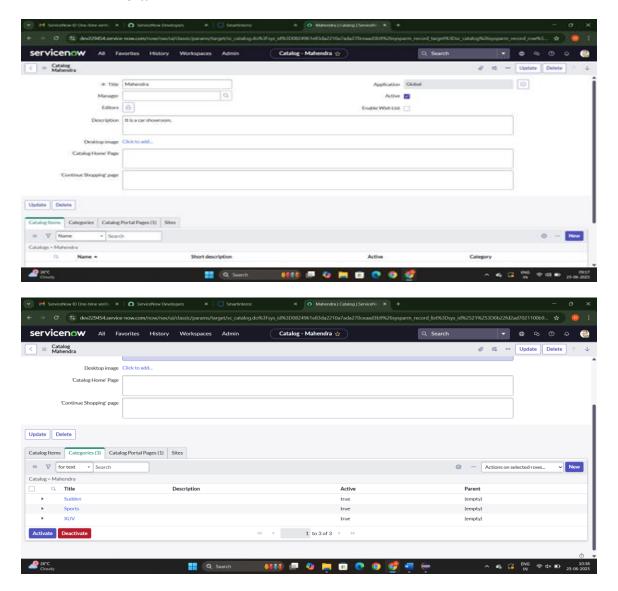
Catalog Configuration

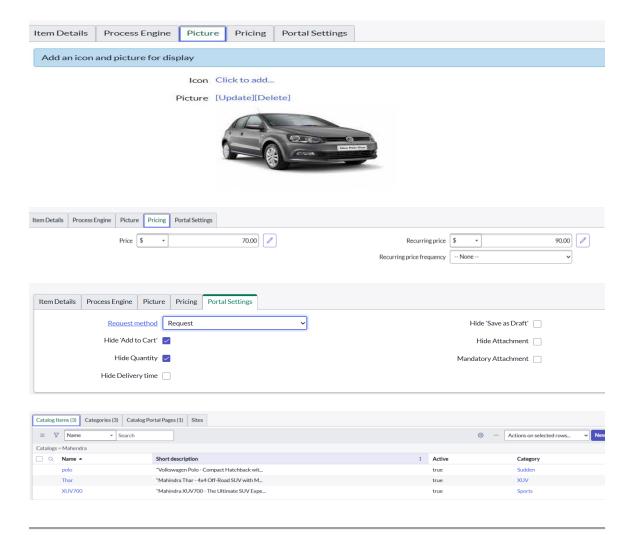
- The main catalog is named "Mahendra", representing the car inventory system.
- It includes the following three **product categories**:
 - o **Sudden** general or economy cars
 - o **XUV** utility vehicles
 - o **Sports** performance-focused models

Each category holds related car models, helping users browse vehicles efficiently.

Catalog Items

- Sample items include:
 - o Volkswagen Polo
 - Mahindra Thar
 - Mahindra XUV700
- Each item is designed to include:
 - Description highlighting specifications like fuel type, seating capacity, features.
 - o **Pricing details** base price and optional packages.
 - Images high-quality visuals to improve user experience in the Service Portal.

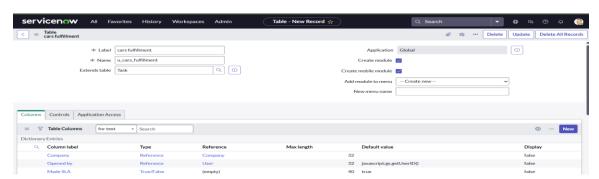




System Architecture

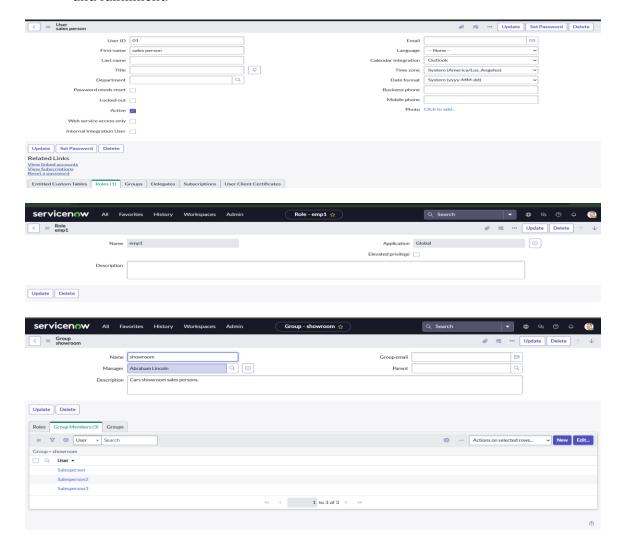
Database Table Design

- A custom table is designed for **catalog request fulfillment**, extending the core **Task** table
- This enables tracking of user requests for car information or services like test drives or quotations.



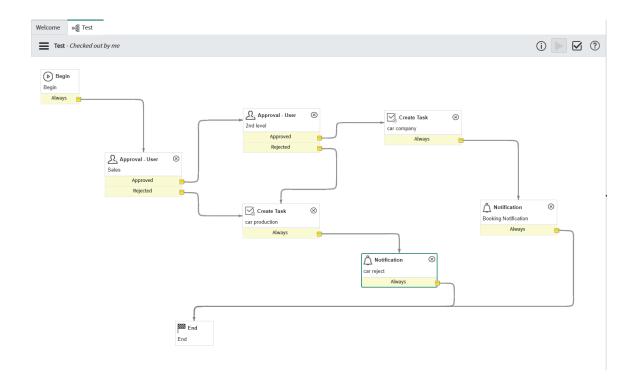
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- **emp1** role is created for **Salespersons**, giving them access to view and process catalog requests.
- The 'showroom' group includes users responsible for catalog approval, visibility, and fulfillment.



Workflow Design

- Approval workflows are implemented using ServiceNow Flow Designer.
- The flow begins when a user submits a request via the portal:
 - o The request is assigned to the appropriate approver (e.g., Salesperson).
 - o Email notifications are triggered based on approval or rejection.
 - o Logs are generated for each decision for auditing.



User Experience Integration

The **Service Portal** acts as the frontend for users:

- Customers can **browse** the catalog by category.
- Submit **requests** for more information or action.
- View the **status** of requests in real time.

The design ensures intuitive navigation, fast response, and role-based views depending on the user's credentials.

Conclusion

This design phase results in a **modular**, **scalable**, **and efficient system**, aligning perfectly with showroom operation needs. By integrating ServiceNow's task management, workflow automation, and portal interface, the solution is both technically robust and user-friendly — capable of evolving with future dealership requirements.