

Project Design Phase-II Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	LTVIP2025TMID30467
Project Name	Automated Car Catalog System For Enhanced Showroom Management
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically

Processes:

1. Catalog Management – Admin creates catalogs and categories.
2. Item Management – Admin adds car models with pricing, images, and descriptions.
3. User & Role Management – Admin assigns roles and groups.
4. Request Workflow – Users place orders via Service Portal; approval process initiated.
5. Notifications – System sends approval/rejection emails.

External Entities:

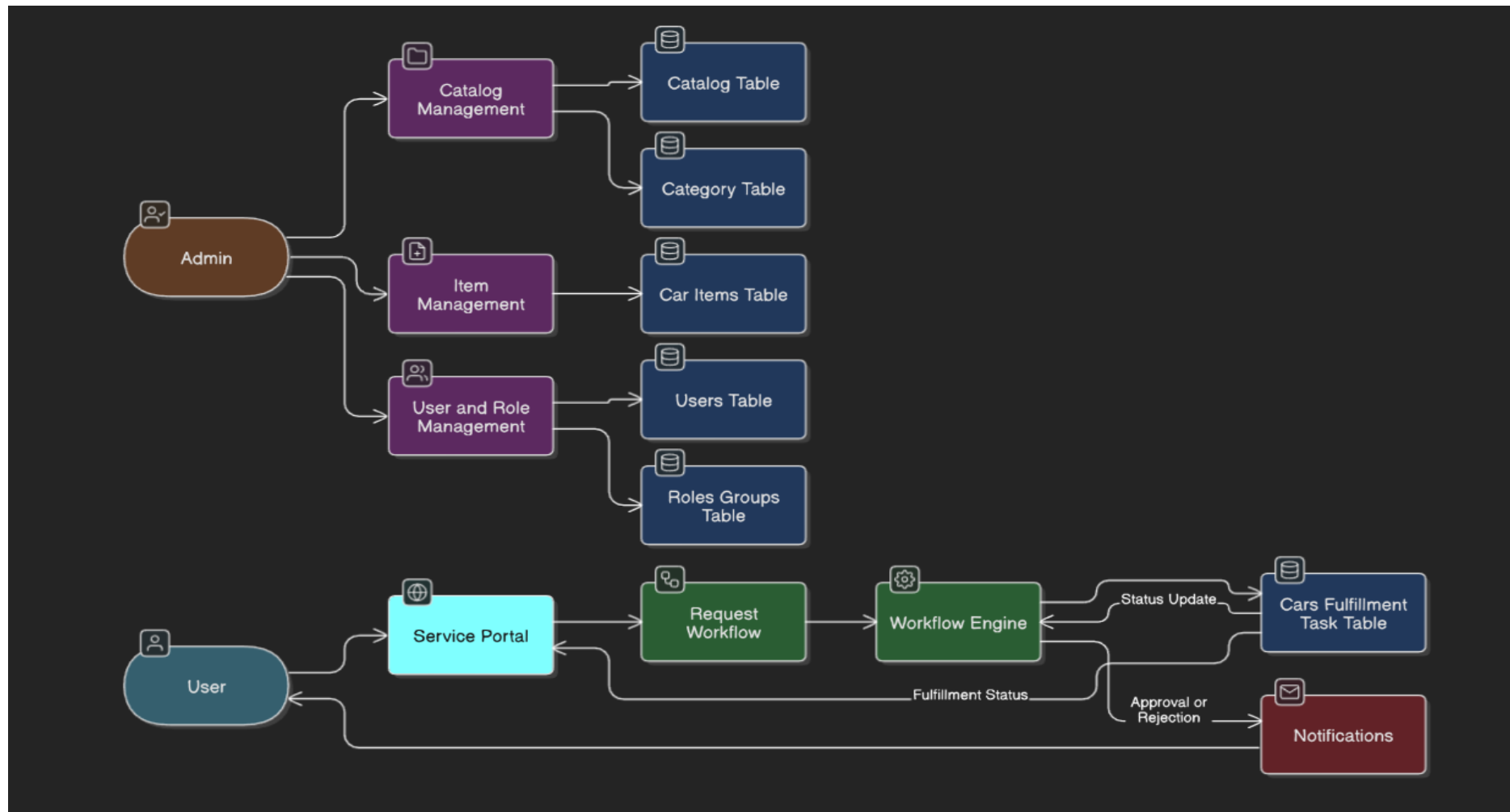
- Admin
- User

Data Stores:

- Catalog Table
- Category Table
- Car Items Table

- Users Table
- Roles/Groups Table
- Cars Fulfillment Task Table

Example: DFD Level 0



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Catalog Creation	USN-1	As an admin, I can create a catalog named "Mahendra" with a description and global scope.	Mahendra catalog is visible in the system with correct attributes.	High	Sprint-1
Administrator	Category Setup	USN-2	As an admin, I can create categories: Sudden, XUV, and Sports.	All three categories are listed under Mahendra catalog.	High	Sprint-1
Administrator	Car Item Entry	USN-3	As an admin, I can add Polo, Thar, and XUV700 cars with short and long descriptions, images, pricing, and category.	Each item appears in correct category and is fully populated.	High	Sprint-1/2
Administrator	User Management	USN-4	As an admin, I can create a user with ID "01" and assign the role "emp1".	User exists in the system with correct role.	Medium	Sprint-2
Administrator	Role/Group Management	USN-5	As an admin, I can create role "emp1" and group "showroom" managed by Abraham Lincoln with members.	Group is available with proper members and assigned manager.	Medium	Sprint-2
Administrator	Table Setup	USN-6	As an admin, I can create a table "cars fulfillment" extending the Task table.	Table is visible in schema with linkage to task management.	High	Sprint-3
Administrator	Workflow Setup	USN-7	As an admin, I can create workflow for catalog requests including 2-step approval and task creation.	Workflow shows correct transitions, approvals, and task actions.	High	Sprint-3
Administrator	Notifications	USN-8	As an admin, I can configure approval/rejection notifications with dynamic content and HTML format.	Emails are triggered with relevant details and formatting.	Medium	Sprint-3

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Web User	Order Item via Portal	USN-9	As a user, I can browse and order car items via the Service Portal and view approval status.	User sees confirmation with request number, approval status, and email notification.	High	Sprint-4
Admin/User	Task Update & Completion	USN-10	As an approver, I can approve/reject requests, and task state is updated accordingly.	Tasks reflect proper status (Ready to Pickup/Deployment Failed).	High	Sprint-4