Project Design Phase-II
Data Flow Diagram & User Stories

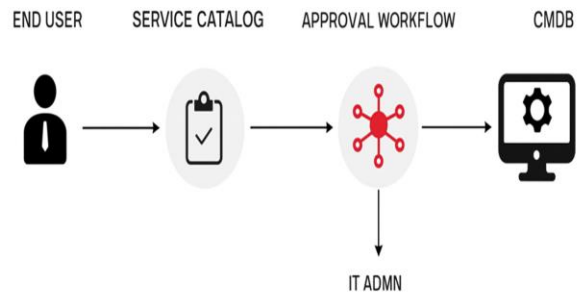| Date	02 november2025
Team ID	NM2025TMID04453
Project Name	Laptop request catalog item
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) visually represents how data moves through a system. It shows where data originates, how it is processed, and where it is stored. In the Laptop Request Catalog Item project, DFDs illustrate the complete workflow of a user's laptop request — from submission to approval and delivery.
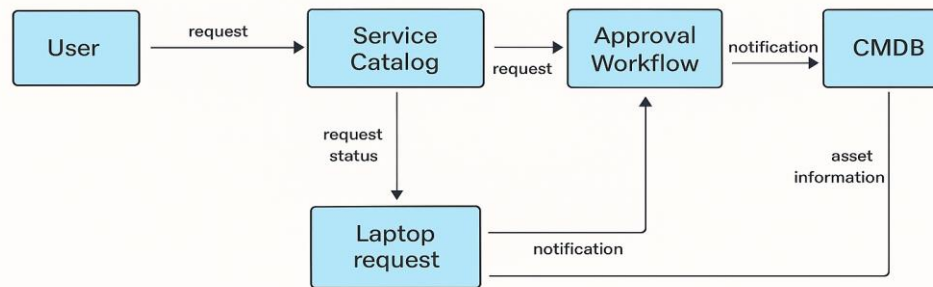
The DFD highlights the interaction between the User, Approval Workflow, IT Administrator, and the CMDB database. When a user submits a laptop request through the Service Catalog, the system validates the details, routes the request for approval, and upon approval, updates the CMDB with the assigned asset. Automated notifications are triggered at each stage to keep users informed.

Example DFD

END USER   SERVICE CATALOG   APPROVAL WORKFLOW   CMDB

IT ADMN

Phase-II - Laptop Request Desk Item

Data Flow Diagram

User → request → Service Catalog → request → Approval Workflow → notification → CMDB

Service Catalog → request status → Laptop request

Laptop request → notification → Approval Workflow

CMDB → asset information

Laptop request → notification

User Stories: User stories define what different users expect from the system, written in clear, goal-oriented language. In this project, user stories help ensure smooth request submission, approval, and tracking while maintaining transparency and efficiency.

User Type	Functional Requirement (Epic)	User Story No.	User Story / Task	Acceptance Criteria	Priority	Release
End User (Student/Employee)	Laptop Request	LRN-1	As a user, I want to submit a laptop request easily through the portal.	The system should allow form submission with required fields and confirmation.	High	Sprint-1
Manager	Request Approval	LRN-2	As a manager, I want to review and approve or reject laptop requests.	Approval or rejection updates request status and notifies the user.	High	Sprint-1
IT Administrator	Laptop Allocation	LRN-3	As an IT admin, I want to assign available laptops and update the CMDB.	CMDB reflects updated asset details upon allocation.	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story No.	User Story / Task	Acceptance Criteria	Priority	Release
System (Automation)	Notifications	**LRN-4**	As a system, I want to send automated notifications for each request stage.	Users receive emails/SMS for submission, approval, and delivery.	Medium	Sprint-2
User (Tracking)	Request Tracking	**LRN-5**	As a user, I want to track my laptop request status online.	Request dashboard displays current progress and approval history.	Medium	Sprint-3