

Project Design Phase

Solution Architecture

Date	14 November 2025
Team ID	NM2025TMID06861
Project Name	Laptop Request Catalog Item
Maximum Marks	4 Marks

Architecture

Goal of Architecture

To build a simple, automated, and scalable system that helps employees request laptops easily, reduces manual work, and improves tracking and approvals.

Key Components

- Service Catalog Form: Main form for laptop requests.
- Dynamic Fields: Show extra options like accessories when selected.
- Workflow / Flow Designer: Handles approvals and notifications.
- Update Set: Moves configurations between instances.
- Database Tables: Store request and approval details.
- Notifications & ACLs: Manage updates and secure access.

Development Phases

1. Requirement Gathering
2. Design & Planning
3. Development & Configuration
4. Testing & Validation

Solution Architecture Description

The system uses a three-layer model:

- UI Layer: Laptop request form with auto-fill and reset.
- Logic Layer: Approval flow, automation, and validation.
- Data Layer: Stores requests and tracks changes.

Flow:

User submits a request → System validates and sends approval → Manager approves → IT receives task → Status updates automatically.