

Requirement Analysis Phase
Data Flow Diagram & User Stories

Date	1 November 2025
Team ID	NM2025TMID04148
Project Name	Laptop Request Catalog Item
Maximum Marks	4 Marks

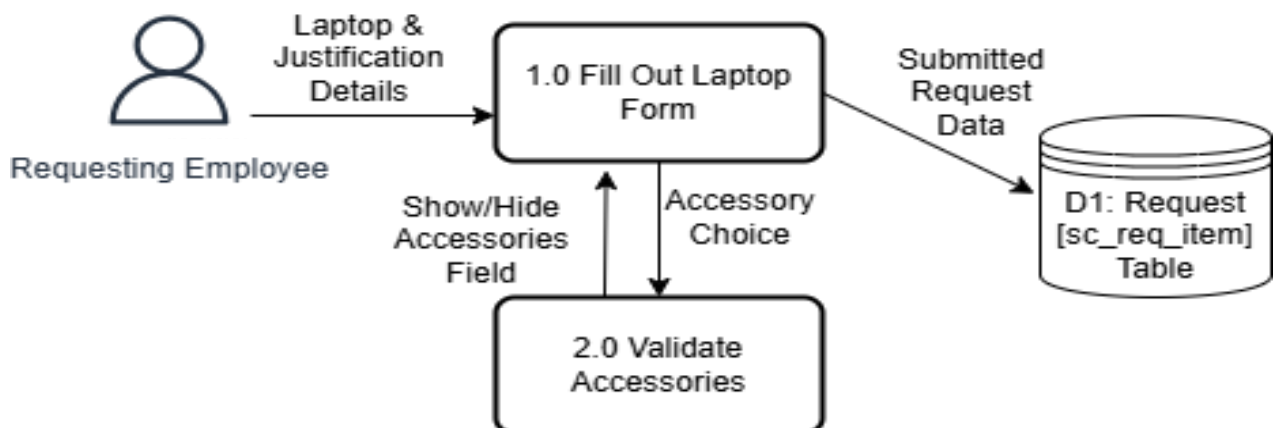
Data Flow Diagrams:

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. It shows how data enters and leaves the system, what changes the information, and where data is stored.

In the project "Laptop Request Catalog Item", this DFD illustrates how an employee's request data is captured and processed by the Service Catalog. The diagram shows the interaction between the Requesting Employee, the Catalog Item Form (Process 1.0), the Validation Logic (Process 2.0), and the Request Database (Data Store).

When the user provides their Accessory Choice, the Validate Accessories process is triggered, which in turn sends a Show/Hide command back to the form. Finally, the completed form sends the Submitted Request Data to the ServiceNow table.

Data Flow Diagram:



User Stories:

User stories define what different users need from the system in simple, goal-focused language. In this project, they help ensure the catalog item form is intuitive, collects the correct data, and behaves dynamically to improve the user experience.

User Type	Functional Requirement (Epic)	User Story Num	User Story / Task	Acceptance Criteria	Priority	Release
Requesting Employee	Catalog Form	USN-1	As a requesting employee, I want a single, easy-to-find form to order a new laptop.	1. The form must be a "Laptop Request" item in the Service Catalog. 2. The form must have fields for "Laptop Model" and "Justification"	High	Sprint-1
Requesting Employee	Dynamic Fields	USN-2	As a requesting employee, I only want to see the "Accessories Details" field if I actually select that I want accessories.	1. The "Accessories Details" field is hidden by default. 2. When the "Additional Accessories" checkbox is checked, the "Accessories Details" field becomes visible and mandatory.	High	Sprint-1
Requesting Employee	Form Usability	USN-3	As a requesting employee, if I make a mistake in the shopping cart, I want a simple	1. A "Reset form" button is visible on the shopping cart page.	Medium	Sprint-1

			<p>way to clear the form and start over.</p>	<p>2. Clicking the button clears all fields in the form.</p> <p>3. An alert confirms the form has been reset.</p>		
System	Data Validation	USN-4	<p>As the system, I must ensure the accessories_details field is not empty if the user wants accessories.</p>	<p>1. If additional_accessories = true, then accessories_details must not be null upon submission.</p>	High	Sprint-1