## Project Design Phase-II Data Flow Diagram & User Stories

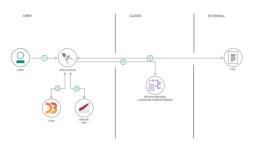
Date	20 June 2025	
Team ID	LTVIP2025TMID60795	
Project Name	Pattern Sense: Classifying Fabric Patterns	
	Using Deep Learning	
Maximum Marks	4 Marks	

## **Data Flow Diagrams:**

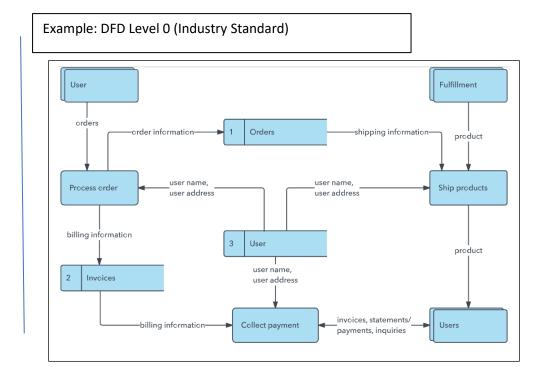
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. In the context of **Pattern Sense**, the DFD shows how image data is uploaded, processed through the deep learning model, and how classification results are returned to the user.

## **Example:**

Flow



- User configures credentials for the Watson Natural Language Understanding service and starts the app.
- 2. User selects data file to process and load.
- 3. Apache Tika extracts text from the data file.
- 4. Extracted text is passed to Watson NLU for enrichment.
- 5. Enriched data is visualized in the UI using the D3.js library.



## **User Stories**

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
User (Web)	Image Upload & Prediction	USN-1	As a user, I can upload an image to classify its fabric pattern	Image gets uploaded and classified accurately	High	Sprint-1
User (Web)		USN-2	As a user, I can view the predicted label after image processing.	Pattern label is shown clearly	High	Sprint-1
Developer	Dataset Management	USN-3	As a developer, I can collect and pre-process the fabric dataset.	Clean, labeled dataset available for model training	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1