**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 20 June 2025 |
| Team ID | LTVIP2025TMID38838 |
| 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: DFD Level 0 (Industry Standard)

**Example:**

Diagram

Description automatically generated

**Diagram, timeline

Description automatically generated**

**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 |