**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 23 June 2025 |
| Team ID | LTVIP2025TMID32832 |
| Project Name | Pollen's Profiling: Automated Classification of Pollen Grains |
| 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.

Example: DFD Level 0 (Industry Standard)

**Example: [(Simplified)](https://developer.ibm.com/patterns/visualize-unstructured-text/)**

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** |
| --- | --- | --- | --- | --- | --- | --- |
| Customer (Mobile user) | Dataset Upload | USN-1 | As a user, I can upload pollen images into the system. | I can upload images and see them in the folder. | High | Sprint-1 |
| Customer (Web user) | Preprocessing | USN-2 | As a user, I can preprocess images (resize, clean) before training. | I can see images resized and cleaned | High | Sprint-1 |
| Customer (Web user) | Model Training | USN-3 | As a user, I can train the model with uploaded datasets. | I get confirmation when the model is trained. | High | Sprint-2 |
| Customer (Web user) | Prediction | USN-4 | As a user, I can upload an image and get the pollen type prediction. | I get the predicted pollen class after uploading. | High | Sprint-2 |
| Customer (Web user) | Dashboard | USN-5 | As a user, I can view recent predictions and model status. | I can see recent uploads and predictions. | Medium | Sprint-3 |
| Administrator | Dataset Management | USN-6 | As an admin, I can manage (add/remove) dataset images. | I can add or remove images from the dataset folder. | High | Sprint-1 |
| Administrator | Model Management | USN-7 | As an admin, I can delete old models and retrain new models. | I can delete models and see new models created. | Medium | Sprint-3 |
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