

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

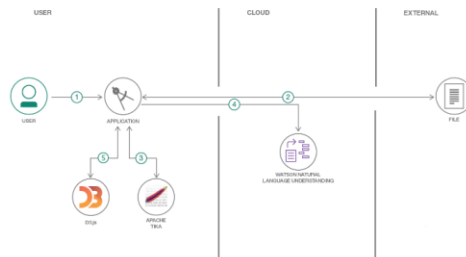
Date	23 June 2025
Team ID	LTVIP2025TMID32832
Project Name	Pollen's Profiling: Automated Classification of Pollen Grains
Maximum Marks	4 Marks

### 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.

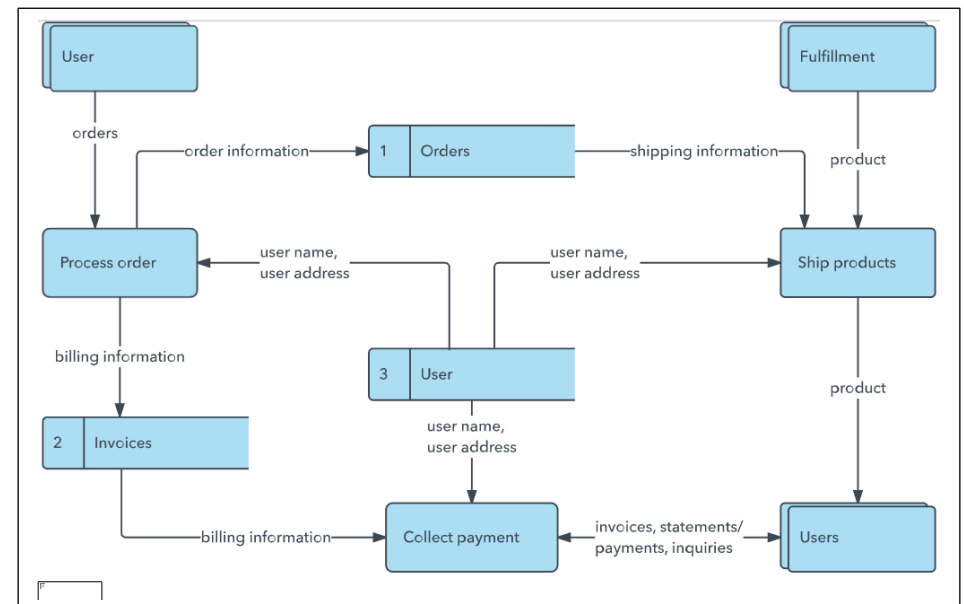
#### Example: (Simplified)

Flow



1. 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.

#### Example: DFD Level 0 (Industry Standard)



## 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