

Project Design Phase-II Data Flow Diagram & User Stories

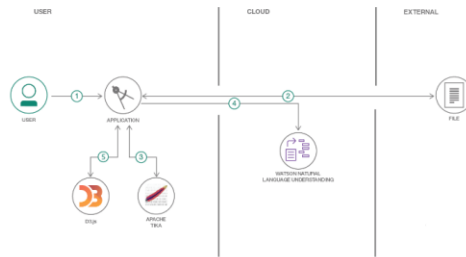
Date	27 June 2025
Team ID	LTVIP2025TMID45694
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management.
Maximum Marks	4 Marks

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.

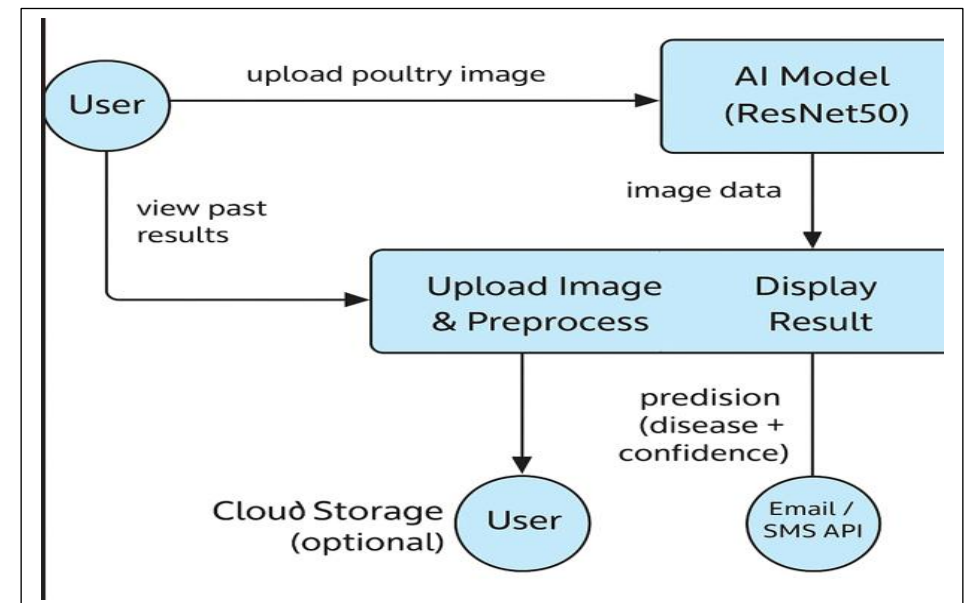
Example: [\(Simplified\)](#)

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 (Context 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
Farmer	Upload Poultry Image	USN-1	As a user, I can upload a poultry image to the system for disease prediction.	Image is uploaded and visible in the result screen.	High	Sprint-1
Farmer	Predict Disease	USN-2	As a user, I want to know the predicted disease of the poultry from the uploaded image using the AI model.	Prediction result with the disease name is displayed correctly.	High	Sprint-1
Farmer	View Result	USN-3	As a user, I want to view the uploaded image and its predicted result on the same page.	Both the uploaded image and the prediction are shown clearly.	Medium	Sprint-1
Admin	Contact Page Submission	USN-4	As a user, I can submit a contact form with my name, email, and message.	Form submits successfully and displays success message.	Low	Sprint-2
General User	Access About Page	USN-5	As a user, I can read about the application's purpose and technology.	About page is accessible with relevant content.	Low	Sprint-2
Admin	Model Management	USN-6	As an admin, I can retrain the disease classification model with more data.	Model retrains and updates successfully.	Medium	Sprint-3
Farmer	Mobile Support	USN-7	As a user, I want the application to be mobile responsive.	Website renders correctly on mobile browsers.	Medium	Sprint-3