Project Design Phase-II
Data Flow Diagram & User Stories

Date	28 June 2025
Team ID	LTVIP2025TMID41715
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.
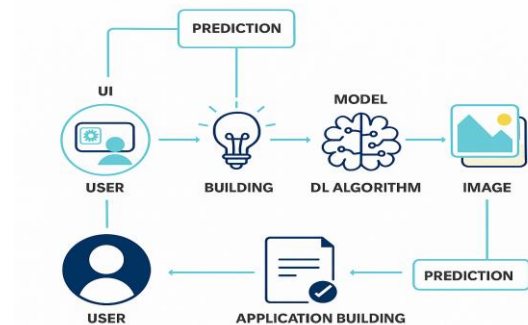
1. **Data Collection & Preparation:** User collect and prepare training images.
2. **Model Building:** User initiates the building of deep earning model.
3. **Testing Model:** Image data is preprocesed and split into training and testing sets.
4. **Application Building:** Trained model make accurate predictions:

USER STORIES:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Poultry Farmer (Mobile)	Disease Image Upload	USN-1	As a farmer, I can upload images of my poultry to the app for disease diagnosis.	Image upload is successful; confirmation message is shown.	High	Sprint-1
	Real-time Prediction	USN-2	As a farmer, I can receive real-time predictions of disease based on the uploaded image.	A disease label with confidence score is displayed instantly.	High	Sprint-2
	Preventive Suggestions	USN-3	As a farmer, I receive actionable suggestions after diagnosis to prevent disease spread.	Suggestions appear after diagnosis is shown.	Medium	Sprint-3
	Offline Access to Past Diagnoses	USN-4	As a farmer, I can view previously diagnosed diseases without internet.	History of diagnoses is viewable offline.	Medium	Sprint-3

Field Vet Officer	Disease Monitoring Dashboard	USN-5	As a vet, I can view recent disease trends from multiple farms on a dashboard.	Dashboard shows recent predictions by date, location, and frequency.	High	Sprint-2
Researcher	Annotated Dataset Export	USN-6	As a researcher, I can export disease-classified images for model improvement or study.	Exportable files available in standard formats like CSV/ZIP.	Medium	Sprint-3
Admin	Model Monitoring & Update	USN-7	As an admin, I can monitor model accuracy and update it when performance drops.	Logs show performance drop, and admin can trigger model retraining.	High	Sprint-2
	User Management	USN-8	As an admin, I can manage user accounts and access rights across roles.	Admin can add, remove, or update users and their roles.	Medium	Sprint-1