Project Design Phase-II
Data Flow Diagram & User Stories

| Date	25 Jun 2025
Team ID	LTVIP2025TMID33049
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) The Poultry Farmer uploads an image of a sick bird or its faces into the AI-based disease detection system. The system validates the image format and forwards it to the disease classification model, which uses transfer learning to identify the disease. The final diagnosis is returned to the user. The prediction is logged for analysis or future review.

Example:
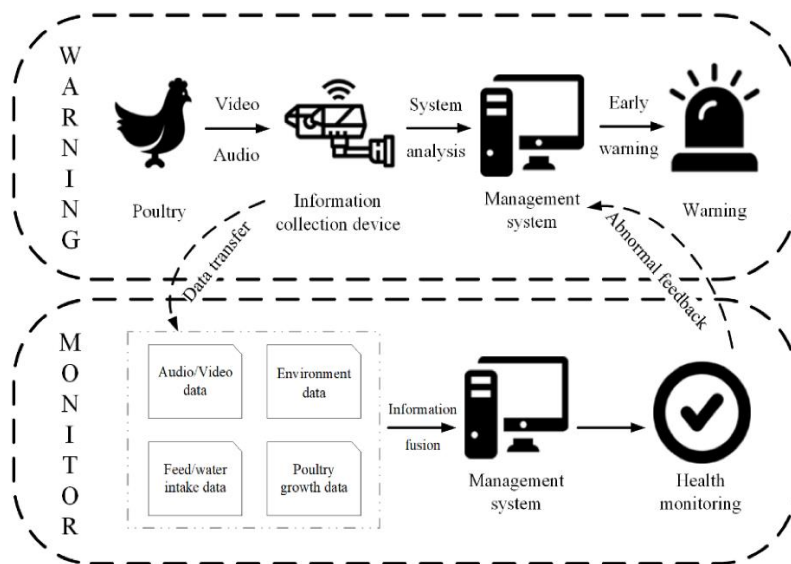
Example: DFD Level 0 (Poultry Diseases for Enhanced Health Management
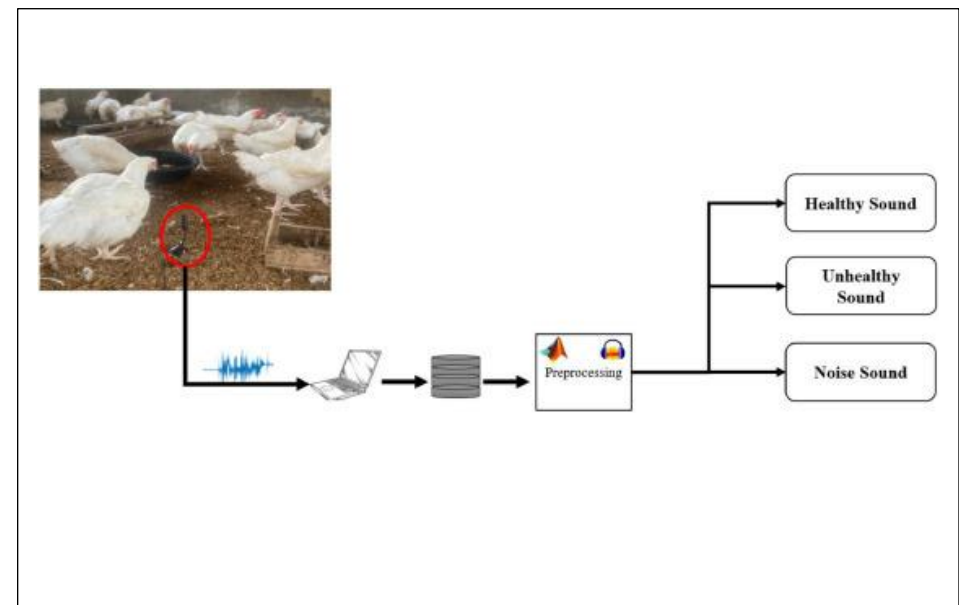
User Stories

Use the below template to list all the user stories for the AI-based poultry disease detection system.

poultry farmers and users interact with the application to register, upload images, detect diseases, and access health information.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Poultry Farmer (Mobile User)	Registration	USN-1	As a poultry farmer, I want to register using my email and phone number so that I can access the AI disease detection system	Registration completes successfully and redirects to the dashboard	High	Sprint-1
Poultry Farmer	Disease Detection	USN-2	As a poultry farmer, I want to upload images of poultry droppings or birds to detect possible diseases using AI	The app shows disease prediction with name and confidence percentage	High	Sprint-1
Poultry Farmer	Offline Access	USN-3	As a farmer in a rural area, I want to detect diseases without internet so that I can use the app anytime	App works offline using stored AI model or shows "Offline mode active"	High	Sprint-2
Poultry Farmer	Disease History & Tracking	USN-4	As a user, I want to view all past uploaded images and their detection results so that I can track poultry health	History tab shows list of images with date, disease name, and result	Medium	Sprint-2
Poultry Farmer	Get Disease Information	USN-5	As a farmer, I want to see more details about each detected disease so I can take care of the poultry properly	Clicking disease name shows info like symptoms, treatment & risk	Medium	Sprint-2
Poultry Farmer	Support & Feedback	USN-6	As a user, I want to contact support or give feedback if something goes wrong	I can access help section and send messages or questions	Low	Sprint-3