

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

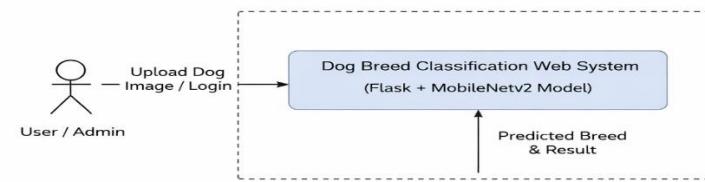
Date	15 Feb 2026
Team ID	LTVIP2026TMIDS52481
Project Name	Dog Breed Identification Using Transfer Learning
Maximum Marks	4 Marks

**Data Flow Diagrams:**

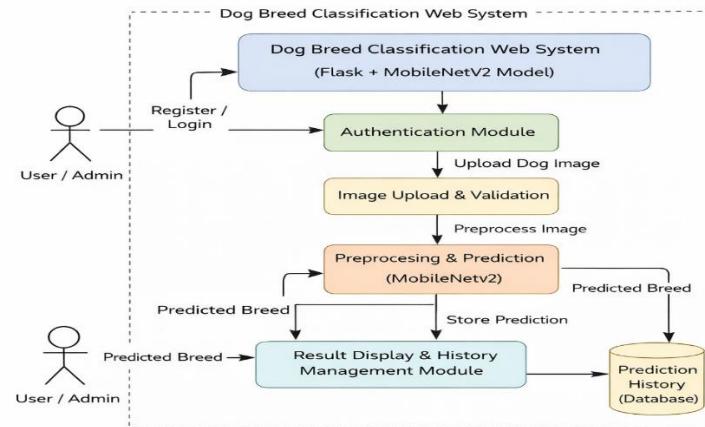
A Data Flow Diagram (DFD) represents how data moves through the dog breed classification system, showing:

- How users upload images
- How the backend processes images
- How the trained MobileNetV2 model predicts the breed
- Where prediction results and history are stored

DFD Level-0: Dog Breed Classification (Context Diagram)



DFD Level-1: Dog Breed Classification (Detailed Diagram)



## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Registration	USN-1	As a user, I can register by entering my email, password	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I can log into the system securely.	I can access prediction features after login.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		USN-3	As a user, I can upload a dog image.	The system accepts valid image formats.	High	Sprint-1
		USN-4	As a user, I can view the predicted dog breed and confidence score.	As a user, I can view the predicted dog breed and confidence score.	High	Sprint-1
		USN-5	As a user, I can view my previous prediction history.	Past predictions are listed with timestamps.	Medium	Sprint-2
Customer (Web user)		USN-6	As a user, I can temporarily clear my prediction history.	My history is hidden but stored for admin view.	Medium	Sprint-2