

Project Design Phase-II Data Flow Diagram & User Stories

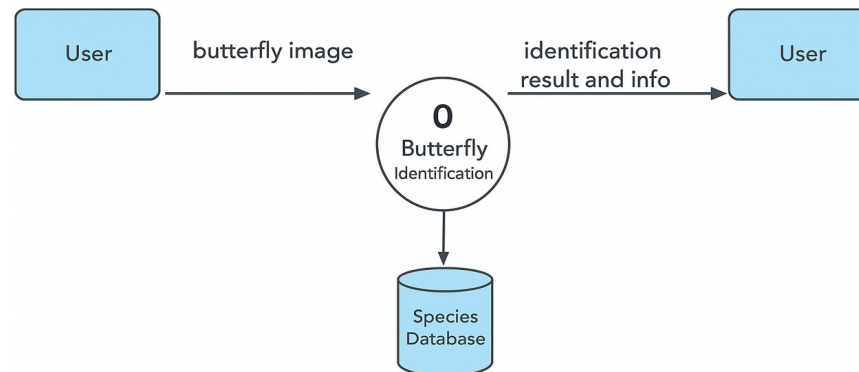
Date	27 June 2025
Team ID	LTVIP2025TMID5573
Project Name	Enchanted Wings: Marvels of Butterfly Species
Maximum Marks	4 Marks

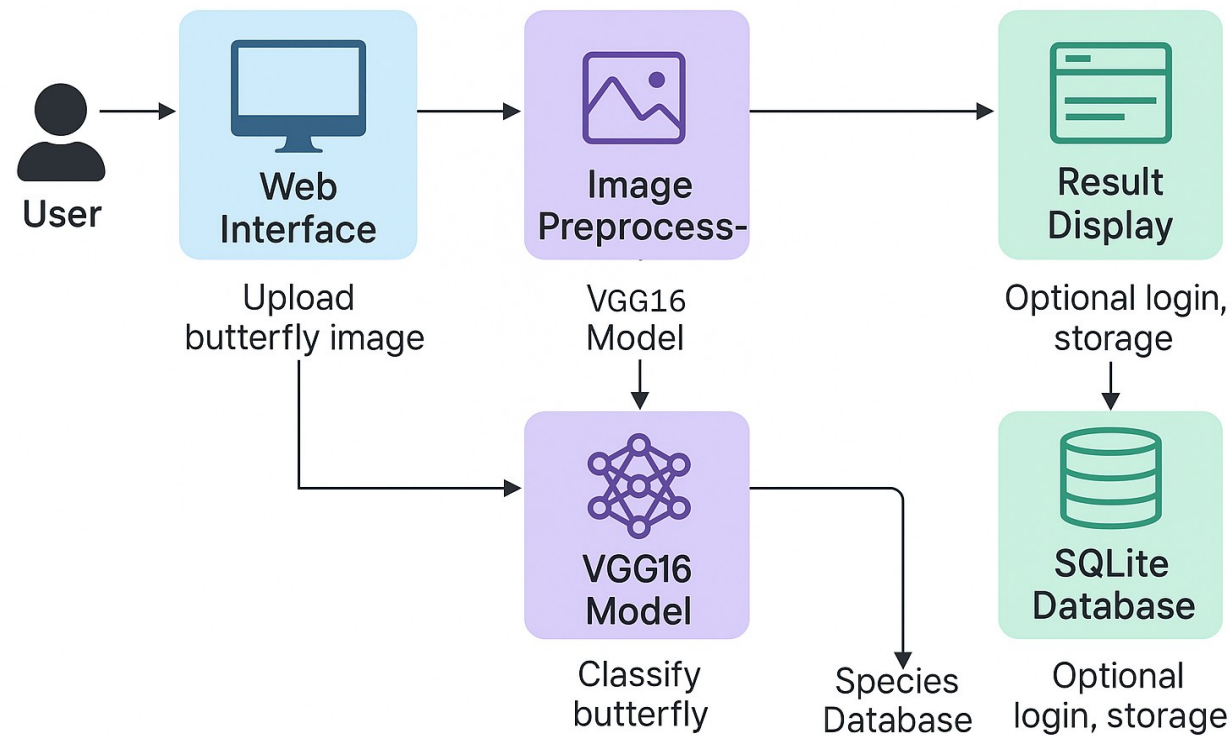
Data Flow Diagrams:

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: DFD Level 0 (Industry Standard)

Level 0 DFD





User uploads a butterfly image via the web interface for identification.

- The image is preprocessed using Python scripts to match model input requirements.
- A pre-trained VGG16 model classifies the butterfly into one of 75 species.
- The predicted species and related info are retrieved from a local database and shown on the UI.
- User data and uploads are stored temporarily, with optional login via SQLite-based authentication.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web/Mobile)	Registration	USN-1	As a user, I can register for the application by entering my email and password	I can access my account/dashboard	High	Sprint-1
		USN-2	As a user, I will receive a confirmation email after registration	I can receive and confirm registration via email	High	Sprint-1
		USN-3	As a user, I can register via Facebook login	I can register and access via Facebook	Low	Sprint-2
		USN-4	As a user, I can register via Gmail login	I can register and access via Gmail	Medium	Sprint-1
	Login	USN-5	As a user, I can log in using my email and password	I can log in and view the dashboard	High	Sprint-1
	Dashboard	USN-6	As a user, I can upload a butterfly image for identification	Image uploads successfully	High	Sprint-2
		USN-7	As a user, I can view prediction results and species details	Correct species and info are displayed	High	Sprint-2