

## Project Design Phase-II

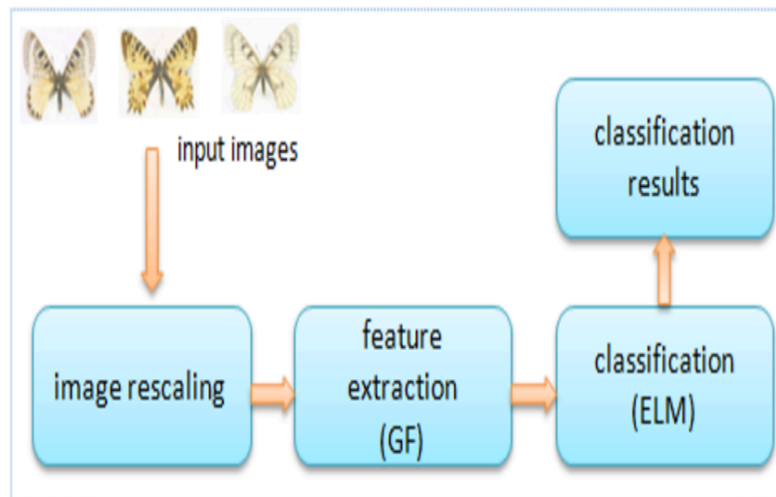
### Data Flow Diagram & User Stories

Date	27th January 2025
Team ID	LTVIP2025TMID36392
Project Name	Enchanted Wing: Marvels of Butterfly Species
Maximum Marks	4 Marks

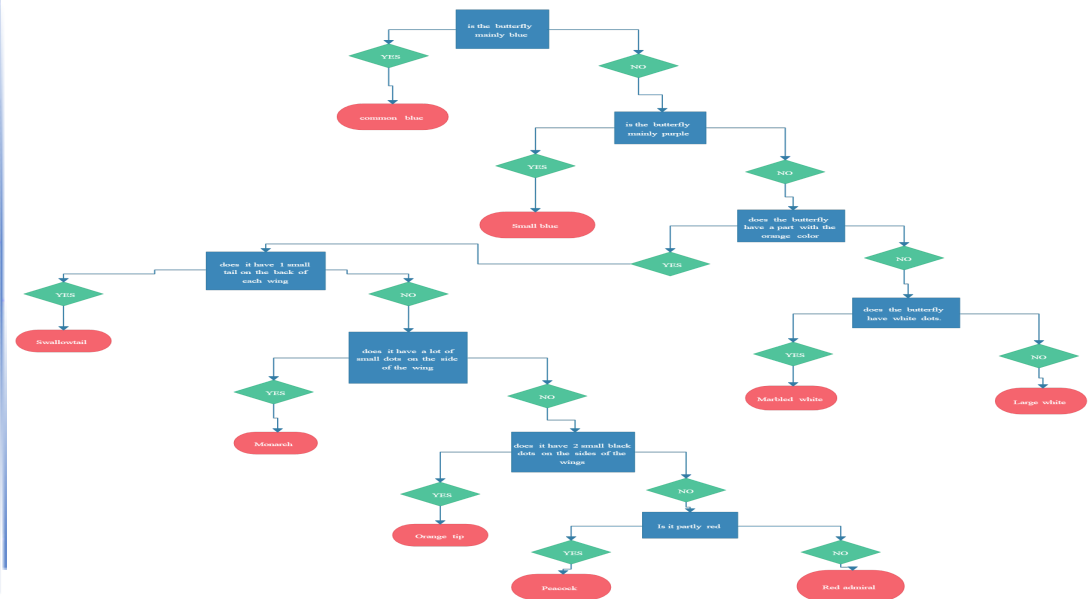
#### Data Flow Diagrams:

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: [\(Simplified\)](#)



#### Example: DFD Level 0 (Industry 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
User (Web)	Upload	USN-1	As a user, I can upload a butterfly image for classification.	Image is successfully uploaded and displayed on screen.	High	Sprint-1
User (Web)	Prediction	USN-2	As a user, I can get the butterfly species name after uploading an image.	I receive the correct predicted butterfly species name on screen.	High	Sprint-1
User (Web)	Prediction Confidence	USN-3	As a user, I can see the prediction confidence level.	A confidence percentage or top-3 predictions are shown along with the result.	Medium	Sprint-2
User (Web)	Error Handling	USN-4	As a user, I get a message if I upload an invalid file (not an image).	Non-image files show a proper error message and don't break the app.	Medium	Sprint-2
Developer (Admin)	Model Integration	USN-5	As a developer, I can load and use the trained MobileNetV2 model in the app.	Model loads without errors and gives consistent outputs.	High	Sprint-1
Developer (Admin)	Deployment	USN-6	As a developer, I can deploy the app via GitHub and share the link.	App is publicly accessible through a shared deployment link.	High	Sprint-2
Customer Care Executive (Reviewer)	Result Explanation	USN-7	As a reviewer, I can verify if the predicted label matches the actual image species.	Prediction results are understandable and match with visual cues.	Medium	Sprint-3

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	Label Mapping	USN-8	As an admin, I can manage and update the class label mappings ( <code>class_indices.pkl</code> ).	Labels correspond accurately to prediction indices in the output.	Medium	Sprint-3
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User (Web)	Prediction	USN-2	As a user, I can get the butterfly species name after uploading an image.	I receive the correct predicted butterfly species name on screen.	High	Sprint-1
User (Web)	Prediction Confidence	USN-3	As a user, I can see the prediction confidence level.	A confidence percentage or top-3 predictions are shown along with the result.	Medium	Sprint-2