# **Project Design Phase-II**

### **Data Flow Diagram & User Stories**

Date	31 January 2025		
Team ID	LTVIP2025TMID36593		
Project Name	HematoVision: Advanced Blood Cell		
	Classification Using Transfer Learning		
Maximum Marks	4 Marks		

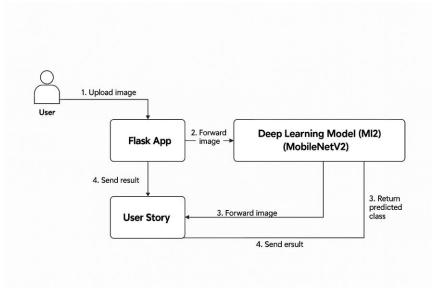
### **Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a visual representation of how data flows through a system. For HematoVision, the DFD includes user input (blood cell image), image preprocessing, model prediction, and the display of the classification result. Below is a simplified example DFD for HematoVision:

- Entities:
  - User
  - Flask App
  - Deep Learning Model (MobileNetV2)
  - Result Display

#### 1. Flow:

- 1. User uploads an image.
- 2. Flask app handles request and forwards image.
- 3. Model receives image, preprocesses, and returns predicted class.
- 4. Flask app sends result to user.



# **User Stories**

Below are the user stories for the HematoVision application. \\

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority & Release
Pathologist	Upload Image	USN-1	As a user, I can upload a blood cell image to classify.	Image is uploaded successfully.	High, Sprint- 1
Pathologist	Classification	USN-2	As a user, I get the predicted blood cell type.	Result is shown after upload.	High, Sprint- 1
Student	Education Mode	USN-3	As a student, I can test images for learning.	System classifies and explains result.	Medium, Sprint-2
Admin	Data Monitoring	USN-4	As an admin, I can track uploaded images.	Admin dashboard logs image metadata.	Low, Sprint-
Doctor	Report Export	USN-5	As a doctor, I can export classification results.	PDF/CSV report is downloaded.	Medium, Sprint-3