

## Project Design Phase-II

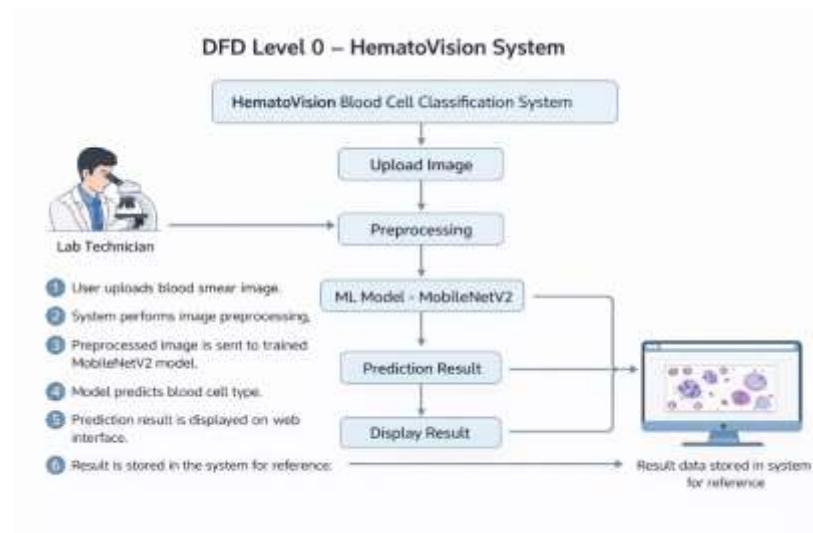
### Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	LTVIP2026TMIDS76616
Project Name	HematoVision – Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	4 Marks

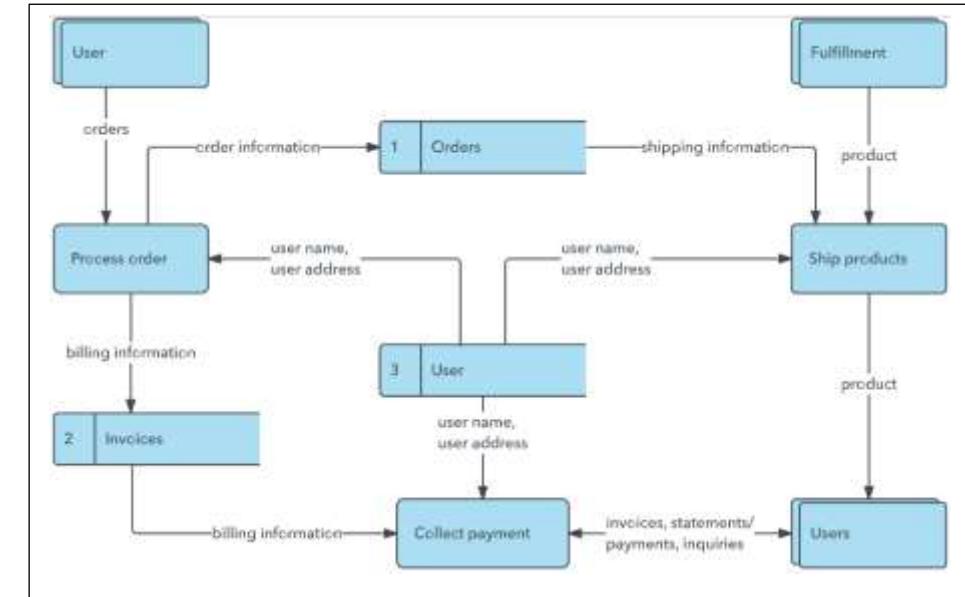
#### Data Flow Diagrams:

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
Lab Technician	Image Upload	USN-1	As a lab technician, I can upload a blood smear image for classification.	Image should upload successfully and preview before prediction.	High	Sprint-1
Lab Technician	Prediction	USN-2	As a lab technician, I want the system to classify the uploaded image automatically.	System should display predicted blood cell type with confidence score.	High	Sprint-1
Lab Technician	Result Display	USN-3	As a lab technician, I want to clearly view the prediction result on the web interface.	Result should show blood cell type and probability percentage.	High	Sprint-1
Pathologist	Accuracy Validation	USN-4	As a pathologist, I want high accuracy predictions to assist medical diagnosis.	Model accuracy should meet predefined performance standards.	High	Sprint-2
Pathologist	Quick Report	USN-5	As a pathologist, I want faster prediction results to reduce patient waiting time.	Prediction should generate within few seconds.	High	Sprint-1
Administrator	Model Management	USN-6	As an administrator, I can update or maintain the trained ML model.	System should allow model update without system failure.	Medium	Sprint-2
Administrator	System Monitoring	USN-7	As an administrator, I can monitor system performance and logs.	System logs should be accessible and properly recorded.	Medium	Sprint-2