

## Project Design Phase-II

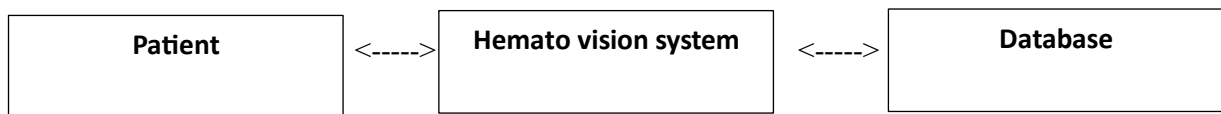
### Data Flow Diagram & User Stories

Date	24 June 2025
Team ID	LTVIP2025TMID35409
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.

#### Level 0 DFD – Context Level



#### 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
Patient (Mobile/Web)	Registration	USN-1	As a patient, I can register by entering my name, email, and password.	I can log in to access the diagnosis dashboard.	High	Sprint-1
Patient (Mobile/Web)	Registration	USN-2	As a patient, I receive a confirmation email upon successful registration.	I can click the confirmation link to activate my account.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Patient (Mobile/Web)	Login	USN-3	As a patient, I can log in using email and password.	I can access the dashboard.	High	Sprint-1
Patient (Mobile/Web)	Image Upload	USN-4	As a patient, I can upload a blood cell image for analysis.	I get a confirmation that the image is uploaded successfully.	High	Sprint-1
Patient (Mobile/Web)	Classification Result	USN-5	As a patient, I can view the classification result and suggested diagnosis.	I can view the cell type and potential condition.	High	Sprint-1
Patient (Mobile/Web)	History	USN-6	As a patient, I can view past diagnosis results.	I can access a timeline or list of previous image classifications.	Medium	Sprint-3
Admin (Web Only)	Model Management	USN-7	As an admin, I can upload/update the deep learning model used for classification.	System uses the latest uploaded model.	High	Sprint-1
Admin (Web Only)	Monitoring	USN-8	As an admin, I can monitor user registrations and activity logs.	I can view logs and analytics of usage.	Medium	Sprint-3
System	Email Service	USN-9	As a system, I automatically send email confirmations upon registration.	Emails are sent instantly to registered addresses.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
ML Service	Image Classification	USN-10	As a classifier, I preprocess uploaded images and return predicted blood cell type.	I return accurate cell class within acceptable time.	High	Sprint-2
Customer Support	User Query Handling	USN-11	As a support executive, I can respond to user queries.	I can access the user's concern and respond via support portal.	Medium	Sprint-3