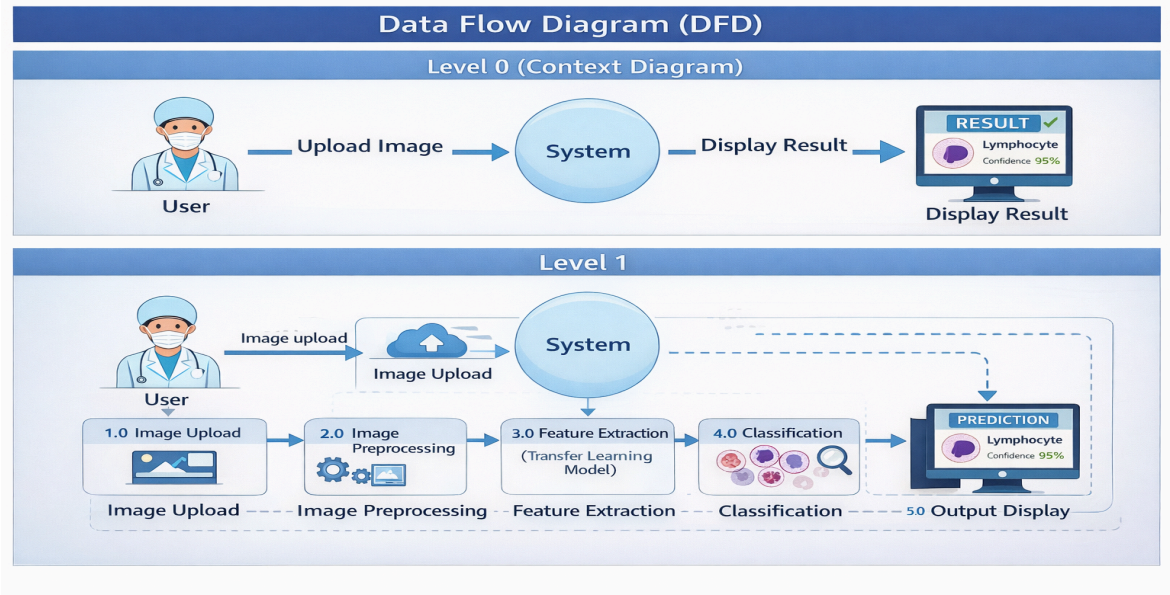
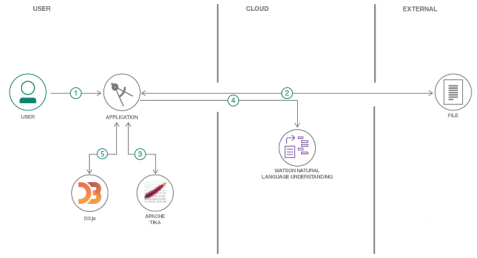
Project Design Phase-II
Data Flow Diagram & User Stories

Date	15 February 2026
Team ID	LTVIP2026TMIDS49741
Project Name	HematoVision: Advanced Blood Cell Classification Using Transfer Learning
Maximum 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 tinformation, and where data is stored

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

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
Customer (Mobile user)	Image Upload	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Customer (Web User – Lab Technician)	Image validation	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
Customer (Web User – Lab Technician)	Prediction	USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
Customer (Web User – Lab Technician)	Prediction	USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Login	USN-5	As a user, I can log into the application by entering email & password	Probability percentage is clearly displayed.	High	Sprint-1
Administrator	Dashboard	USN-6	As a doctor, I can view classification results for diagnosis support.	Result page shows predicted cell type and confidence score.	Medium	Sprint -3
Customer (Web user)	Support	USN-7	As a support executive, I can assist users if image upload fails.	Error logs are available for troubleshooting.	Medium	Sprint -4
Customer Care Executive	Model management	USN-8	As an admin, I can retrain the model with updated dataset.	Model retrains successfully and updates in system.	Medium	Sprint -4
Administrator	Data Management	USN-9	As an admin, I can upload new dataset for improving accuracy.	Dataset is uploaded and validated successfully.	High	Sprint-3
				Model accuracy should be above the defined threshold (e.g., 90%).	High	Sprint-3