Project Design Phase-II
Data Flow Diagram & User Stories

Date	27 January 2026
Team ID	LTVIP2026TMIDS55747
Project Name	Hematovision: Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	4 Marks

Data Flow Description

Instead of the "Order Processing" examples in your screenshots, describe the **HematoVision** flow:

1. **Input**: User (Technician) uploads microscopic blood smear images to the Flask Web UI.
2. **Transformation**: The system preprocesses images (resizing to 224x224 and normalization).
3. **Process**: The **MobileNetV2** Deep Learning algorithm analyzes features to classify cell subtypes.
4. **Output**: The system returns the classification result and a confidence score to the Dashboard for the User.

User Stories Table

Replace the "Registration" and "Facebook Login" examples with the specific tasks from your **Planning Logic**.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority
Lab Technician	**Data Preparation**	USN-5	As a user, I want the system to automatically resize my images	Images are standardized to $224	High

			for consistent analysis.	\times 224$ pixels.	
Pathologist	**AI Classification**	USN-10	As a user, I want to upload a cell image and see its specific subtype immediately.	System displays predicted class with a confidence score.	High
Researcher	**Data Visualization**	USN-6	As a user, I want to see a bar chart of the dataset distribution to understand the model's training base.	A dynamic bar chart is visible on the dashboard.	Medium