

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

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

### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Image Upload	Users can upload blood cell images through the web interface
FR-2	Prediction Engine	The system classifies the image into one of the four categories
FR-3	Result Display	Predicted blood cell type is shown to the user
FR-4	Result Export	Users can download classification reports as images or PDFs

### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement Description
NFR-1	Usability - Interface is user-friendly and easy to navigate
NFR-2	Security - Uploaded images are not stored permanently and are protected during processing
NFR-3	Reliability - Model is trained and validated to ensure consistent predictions
NFR-4	Performance - Classification happens in real-time
NFR-5	Availability - The system is accessible 24/7 via web interface
NFR-6	Scalability - Can be extended to include more cell types and larger datasets