

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	27 JUNE 2025
Team ID	LTVIP2025TMID20259
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management.
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	Upload poultry image via form (JPG,PNG)
FR-2	Disease Prediction	Run ResNet50 model on uploaded image and return prediction
FR-3	Display Result	Show predicted disease name

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple and intuitive UI for non-technical users (farmers)
NFR-2	Security	Only verified images are accepted; prevent malicious file uploads
NFR-3	Reliability	Model consistently returns accurate predictions
NFR-4	Performance	Result should be shown within 3–5 seconds
NFR-5	Availability	System should be available 24x7 with minimal downtime
NFR-6	Scalability	Capable of scaling to handle more users and image uploads in the future