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

Date	30 June 2025
Team ID	LTVIP2025TMID37158
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Image Upload	Upload poultry images from local device Capture image using device camera
FR-4	Disease Prediction	Process image using transfer learning Show predicted disease name Display accuracy/confidence level
FR-5	Disease Information	Show symptoms of predicted disease Display treatment/prevention steps
FR-6	History/Reports	Save user prediction history Export reports as PDF
FR-7	Admin Panel	View and manage users Monitor model performance and logs

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Easy-to-use interface for farmers and general users
NFR-2	**Security**	Secure login and data handling using encryption
NFR-3	**Reliability**	The system should give consistent results for the same input
NFR-4	**Performance**	Fast image processing and response time
NFR-5	**Availability**	System should be available 24/7 with minimal downtime
NFR-6	**Scalability**	Should handle increasing number of users and data without performance drop