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

Date	31 January 2025
Team ID	LTVIP2025TMID46233
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 image, Capture via camera, Preview before submission
FR-4	Disease Classification	Model loads image, Classifies disease, Displays confidence score
FR-5	Guidance & Suggestions	Provides care suggestions, Links to veterinary help or resources
FR-6	User History	View past uploads, View predictions made per image
FR-7	Admin Dashboard	Manage users, View logs, Update
FR-8	Customer Support (Executive)	View user queries, Flag doubtful predictions, Assist user manually

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The app should be easy to navigate, with intuitive UI for farmers and general users.
NFR-2	**Security**	User data and uploaded images must be securely stored and transmitted (e.g., HTTPS, authentication
NFR-3	**Reliability**	The system should provide accurate predictions rovide accurate predictions consistently across multiple uses.

NFR-4	**Performance**	Image upload and prediction response time should be under 5 seconds on average.
NFR-5	**Availability**	The service should be available 24/7 with minimal downtime, especially during farming hours
NFR-6	**Scalability**	The system should handle an increasing number of users, mage uploads, and model updates without loss in performance.