

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

Date	20 July 2025
Team ID	LTVIP2025TMID41443
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	Disease Detection	Upload poultry image for classification Display predicted disease result
FR-4	Treatment Suggestion	Provide care instructions based on disease result Show local vet contact info (optional)

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The system provides a clean and responsive UI, allowing users to easily upload p
NFR-2	<b>Security</b>	Images are securely handled using Flask. No user data or images are stored
NFR-3	<b>Reliability</b>	The model provides consistently accurate predictions across various disease cat
NFR-4	<b>Performance</b>	Prediction and response time is under 2 seconds for standard image sizes.
NFR-5	<b>Availability</b>	The system works 24/7 locally and can be deployed with minimal downtime on
NFR-6	<b>Scalability</b>	Architecture can be easily extended to mobile apps, smart farming tools, or dep