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

Date	24june2025
Team ID	LTVIP2025TMID60871
Project Name	Transfer learning based classification of poultry diseases for enhanced health
	diseases for enfianced fleatin
Maximum Marks	

✓ Functional Requirements: Health Management System

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

Strate Confirmation via OTP

FR-3 Disease Image Upload Upload Single Image
 Upload Batch Images
 Validate Image Format

FR-4 Disease Classification Detect Disease using AI Model
br> Display Predicted Class
Show Confidence Score

FR-5 Health Report Generation Generate Disease Report
 Provide Treatment Recommendations
 Save Report to User Account

FR-6 Historical Data View View Past Diagnoses
 Filter by Date/Disease
 Download Data

FR-7 Admin Dashboard Monitor System Performance
 System Performance
 System Performance
 System Performance
 Manage Users and Roles
 System Performance
 System Perfor

Non-Functional Requirements: Health Management System

NFR No. Non-Functional Requirement Description

NFR-1 Usability The system must have an intuitive UI for farmers and veterinarians

NFR-2 Security Protect user data using authentication, authorization, and encryption

NFR-3 Reliability Ensure the system gives consistent results across multiple sessions

NFR-4	Performance	Al model should respond to classification requests in under 5 seconds
NFR-5	Availability	99.9% system uptime to ensure continuous health monitoring
	Scalability nance drop	Support increasing number of users and image uploads without