**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| Date | 30 June 2025 |
| Team ID | L yuvasree |
| 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 |