**Project Design Phase-II**

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

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| --- | --- |
| Date | 29 June 2025 |
| Team ID | LTVIP2025TMID39151 |
| 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.

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| --- | --- | --- |
| **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 | Symptom Submission & Diagnosis | |  | | --- | | Upload Images, Receive Disease Prediction | |  | |
| FR-4 | Treatment Suggestions | |  | | --- | |  |   Access Prevention Guidelines, View Recommended Treatments |
| FR-5 | |  | | --- | |  |  |  | | --- | | History and Health Tracking | | View Past Diagnoses, Update Health Status |
| FR-6 | |  | | --- | |  |  |  | | --- | | Admin Management | | |  | | --- | |  |   Update Disease Database, User account Management, View System Analytics   |  | | --- | |  | |

**Non-functional Requirements:**

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

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The app should be easy to navigate, with icons and multilingual support. |
| NFR-2 | **Security** | |  | | --- | |  |  |  | | --- | | User data and disease records should be  securely stored and transmitted. | |
| NFR-3 | **Reliability** | The app should consistently deliver accurate predictions and remain operational. |
| NFR-4 | **Performance** | |  | | --- | |  |  |  | | --- | | Quick response for symptom submission  and diagnosis results. | |
| NFR-5 | **Availability** | |  | | --- | |  |  |  | | --- | | The system should be available 24/7, with  minimal downtime. | |
| NFR-6 | **Scalability** | |  | | --- | |  |  |  | | --- | | The system should support growing users and  new disease data over time. | |