**Project Design Phase-II**

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

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| Date | 31 January 2025 |
| Team ID | LTVIP2025TMID59571 |
| 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 | Disease Prediction | Upload poultry image  Get predicted disease label |
| FR-4 | Admin Dashboard | View user logs  Manage model versions  User management |
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**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 interface should be easy to navigate for both mobile and web users. |
| NFR-2 | **Security** | All user data should be encrypted; secure login and authenticated API calls. |
| NFR-3 | **Reliability** | The system should provide consistent predictions with minimal crashes. |
| NFR-4 | **Performance** | Predictions should be delivered within 2–3 seconds of image upload. |
| NFR-5 | **Availability** | The system should be available 24/7 with minimal downtime. |
| NFR-6 | **Scalability** | The backend should support scaling for more users and disease types later. |