**Project Design Phase-II**

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

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| Date | 28 june 2025 |
| Team ID | LTVIP2025TMID45999 |
| 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 | Uploading the image | Know the kind of disease that the one is suffering with |
| FR-2 | User Confirmation | Know the medicine |
| FR-3 | Image uploading | Disease known |
| FR-4 | Image detection | Type of disease |

**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 system should be intuitive and user-friendly, ensuring that users can easily navigate and interact with the application with minimal training or support. The interface should be consistent and accessible to all user types. |
| NFR-2 | **Security** | The solution must ensure data protection and system integrity by implementing proper authentication, authorization, encryption, and regular security audits. It should comply with relevant data protection regulations and standards. |
| NFR-3 | **Reliability** | The system should perform consistently and correctly under defined conditions without failures. It must handle unexpected conditions gracefully and ensure data integrity during failures or interruptions. |
| NFR-4 | **Performance** | The system should respond to user inputs and process requests within acceptable time limits under normal and peak load conditions. This includes fast load times, efficient processing, and minimal latency. |
| NFR-5 | **Availability** | The system should be available and operational 24/7 or as per the defined service-level agreement (SLA), with minimal downtime for maintenance or unexpected outages. |
| NFR-6 | **Scalability** | The solution must be able to accommodate growth in users, data volume, and transaction load without compromising performance, by scaling up (hardware) or out (adding nodes/resources). |