**Project Design Phase-II**

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

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| Date | 6 JUNE 2025 |
| Team ID | LTVIP2025TMID34696 |
| Project Name | Enchanted Wings: Marvels Of Butterfly Species |
| 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 | Image Upload & Classification | Upload butterfly image Preprocess and send image to model Show predicted species and confidence score |
| FR-4 | Results Dashboard | Display prediction results with species info Option to save/share the result Access prediction history |

**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** | Interface should be user-friendly, responsive, and easy for non-technical users |
| NFR-2 | **Security** | Secure login, image handling, and result data storage using authentication |
| NFR-3 | **Reliability** | System should provide consistent and accurate predictions |
| NFR-4 | **Performance** | Model should give results within a few seconds per image |
| NFR-5 | **Availability** | System should be accessible 24/7 with minimal downtime |
| NFR-6 | **Scalability** | System should support growing number of users and additional species classes |