**Project Design Phase**

**Solution Architecture**

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| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID59656 |
| Project Name | Enchanted Wings: Marvels of Butterfly Species |
| Maximum Marks | 4 Marks |

**Solution Architecture:**

To provide a user-friendly, secure, and scalable butterfly image classification system that supports real-time species identification using transfer learning.

* Robust Butterfly Image Classification using CNN-based Transfer Learning
* Real-Time Species Identification on Mobile and Web Platforms
* Educational Feedback for Students and Enthusiasts
* Scalable Dataset Management and Model Retraining
* Insightful Analytics for Ecological Monitoring

**Example - Solution Architecture Diagram:**

