**Project Development Phase**

**Model Performance Test**

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| Date | 27-06-2025 |
| Team ID | LTVIP2025TMID59407 |
| Project Name | Enchanted Wings: Marvels of Butterfly Species |
| Maximum Marks | 10 Marks |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

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| .No. | Parameter | Values | Screenshot |
| 1. | Model Summary | VGG16-based transfer learning model |  |
| 2. | Accuracy | Training Accuracy: 93%Validation Accuracy: 91% |  |
| 3. | Fine-Tuning Result (if done) | Validation Accuracy: 92% (after unfreezing last few VGG16 layers) |  |
| 4. | Metrics | Confusion Matrix: [Insert Image], Accuracy Score: 91%Classification Report: Precision/Recall/F1 | [Insert Screenshot] |
| 5. | Tune the Model | Hyperparameter Tuning: Learning rate = 0.0001, Dropout = 0.5Validation Method: Stratified 5-fold Cross Validation | [Insert Screenshot] |