**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

|  |  |
| --- | --- |
| Date | 27-06-2025 |
| Team ID | LTVIP2025TMID59407 |
| Project Name | Enchanted Wings: Marvels of Butterfly Species |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

**.1 Sprint Planning**

|  |  |  |
| --- | --- | --- |
| Sprint | Task | Story Point |
| Sprint 1 (Day 1–5) | Collect Dataset | 2 |
|  | Load Dataset | 1 |
|  | Handle Missing Values | 3 |
|  | Encode Categorical Variables | 2 |
| **Total** |  | **8** |

|  |  |  |
| --- | --- | --- |
| Sprint | Task | Story Point |
| Sprint 2 (Day 6–10) | Model Building | 5 |
|  | Model Testing | 3 |
|  | Create HTML Pages | 3 |
|  | Deploy with Flask | 5 |
| **Total** |  | **16** |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

**5.2 Sprint Schedule**

|  |  |  |
| --- | --- | --- |
| **Day** | **Activity** | **Sprint** |
| **1** | **Dataset Collection & Upload** | **Sprint 1** |
| **2** | **Data Cleaning and Structuring** | **Sprint 1** |
| **3** | **Missing Value Handling & Preprocessing** | **Sprint 1** |
| **4** | **Label Encoding & Normalization** | **Sprint 1** |
| **5** | **Data Verification and Backup** | **Sprint 1** |
| **6** | **Model Architecture Setup (VGG16)** | **Sprint 2** |
| **7** | **Model Training Start** | **Sprint 2** |
| **8** | **Model Training End & Evaluation** | **Sprint 2** |
| **9** | **HTML Page Creation (UI)** | **Sprint 2** |
| **10** | **Flask Integration & Final Testing** | **Sprint 2** |

**Team Velocity = Total Story Points / Number of Sprints = 24 / 2 = 12 Story Points per Sprint**

**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile[software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

[**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](https://www.atlassian.com/agile/project-management)

[**https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software**](https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

[**https://www.atlassian.com/agile/tutorials/sprints**](https://www.atlassian.com/agile/tutorials/sprints)

[**https://www.atlassian.com/agile/project-management/estimation**](https://www.atlassian.com/agile/project-management/estimation)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)