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

|  |  |
| --- | --- |
| Date | 29 June 2025 |
| Team ID | LTVIP2025TMID39151 |
| Project Name | Transfer learning-based classification of poultry |
| Maximum Marks | 5 Marks |

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

Use the below template to create product backlog and sprint schedule

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Collection | USN-1 | As a user, I can collect poultry image data for different disease categories | 2 | High | Nagisetti Pranathi  Vasa Kota Lakhsmi saranya |
| Sprint-1 |  | USN-2 | As a user, I can load collected data into the application | 1 | High | Nagisetti Pranathi |
| Sprint-1 | Data Preprocessing | USN-3 | As a user, I can handle missing values in the dataset | 3 | High | Vasa Kota Lakhsmi saranya |
| Sprint-1 |  | USN-4 | As a user, I can handle categorical values in the dataset | 2 | Medium | Vakkapati rajyasri |
| Sprint-2 | Model Building | USN-5 | As a user, I can train a transfer learning model to classify poultry diseases | 5 | High | Nagisetti Pranathi |
| Sprint-2 |  | USN-6 | As a user, I can test and evaluate the performance of the trained model | 3 | High | Nagisetti Pranathi |
| Sprint-2 | Deployment | USN-7 | As a user, I can access disease detection through a working HTML interface | 3 | Medium | Vasa Kota Lakhsmi saranya |
| Sprint-2 |  | USN-8 | As a user, I can interact with the model through a Flask web application | 5 | High | Nagisetti Pranathi |
| Sprint-3 | Model Optimization | USN-9 | As a user, I can improve model accuracy using hyperparameter tuning | 3 | Medium | Vakkapati rajyasri |
| Sprint-3 |  | USN-10 | As a user, I can validate the model using cross-validation | 3 | Medium | Vasa Kota Lakhsmi saranya |
| Sprint-3 |  | USN-11 | As a user, I can visualize model performance using graphs | 2 | Low | Vadali susmiths sri ramani |
| Sprint-3 | UI Improvement | USN-12 | As a user, I can use a responsive and user-friendly interface | 3 | Medium | Vasa Kota Lakhsmi saranya |
| Sprint-3 |  | USN-13 | As a user, I can upload poultry images through a UI form | 2 | Medium | Vakkapati rajyasri |
| Sprint-3 |  | USN-14 | As a user, I get notified in case of invalid image upload | 2 | Low | Vasa Kota Lakhsmi saranya |
| Sprint-4 | Mobile Integration | USN-15 | As a user, I can use the model in a mobile app via TensorFlow Lite | 3 | High | Nagisetti Pranathi  Vasa Kota Lakhsmi saranya |
| Sprint-4 |  | USN-16 | As a user, I can test the model on Android devices | 5 | High | Nagisetti Pranathi |
| Sprint-4 | Support Features | USN-17 | As a user, I can submit feedback about the model or app | 1 | Medium | Vasa Kota Lakhsmi saranya |
| Sprint-4 |  | USN-18 | As a user, I can browse FAQ/help content | 2 | Medium | Nagisetti Pranathi |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed** | **Sprint Release Date (Actual)** |
| **Sprint-1** | 8 | 5 Days | 12 June 2025 | 16 June 2025 | 8 | 16 June 2025 |
| **Sprint-2** | 16 | 5 Days | 17 June 2025 | 21 June 2025 | 16 | 21 June 2025 |
| **Sprint-3** | 15 | 5 Days | 24 June 2025 | 28 June 2025 | 15 | 28 June 2025 |
| **Sprint-4** | 14 | 2 Days | 29 June 2025 | 30 June 2025 | 14 | 30 June 2025 |

**Your Project Details:**

* **Total Sprints:** 4
* **Total Story Points:** 8 + 16 + 15 + 14 = **53**
* **Sprint Duration:** 5 days each
* **Total Duration:** 4 sprints × 5 days = **20 days**

**📈 Average Velocity (AV) Calculation**

**Formula:**

Average Velocity (AV)=Total Days/Total Story Points​

AV=53/20=2.6

✅ **Your Team’s Average Velocity = 2.65 Story Points per Day**

This means your team completes **about 2.65 story points per day** on average across the project duration.

**📉 Burndown Chart Reference**

You can create a burndown chart using this tool:  
👉 <https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

**🔗 References**

* [Atlassian Agile Tutorials](https://www.atlassian.com/agile/tutorials)
* [Product Backlog Explanation](https://www.atlassian.com/agile/project-management)
* [How to Do Scrum](https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software)
* [Burndown Charts](https://www.atlassian.com/agile/tutorials/burndown-charts)