**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 20 November 2023 |
| Team ID | Team-592802 |
| Project Name | Disease Prediction Using Machine Learning |
| Maximum Marks | 8 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 Preparation and Exploration | USN-1 | Implement data cleaning and preprocessing function. | 2 | High | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-1 | Data Preparation and Exploration | USN-2 | Handle missing values and irrelevant features | 1 | Medium | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-1 | Data Preparation and Exploration | USN-3 | Explore and visualize the dataset for insights. | 2 | High | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-2 | Model Development and Evaluation | USN-4 | Implement various machine learning classifiers. | 3 | High | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-2 | Model Development and Evaluation | USN-5 | Evaluate and compare model performance. | 2 | Medium | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-2 | Model Development and Evaluation | USN-6 | Select the best-performing model. | 2 | High | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-3 | Visualization and UI Integration | USN-7 | Create visualizations for symptom importance. | 2 | Medium | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-3 | Visualization and UI Integration | USN-8 | Conduct EDA on the dataset for feature understanding. | 2 | High | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-3 | Visualization and UI Integration | USN-9 | Design and implement a user-friendly interface to display results. | 3 | High | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint-4 | Visualization and UI Integration | USN-10 | Integrate pie charts and bar charts for symptom distribution visualization. | 2 | Medium | Sparsh K, Swapnil B, Somya P., Nohitha T. |
| Sprint -5 | Testing of the Project | USN-11 | Final testing of the Web application and ML model | 4 | High | Sparsh K, Swapnil B, Somya P., Nohitha T. |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points**  **Completed (as on**  **Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 6 Days | 24 Oct 2023 | 29 Oct 2023 | 20 | 29 Oct 2023 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2023 | 05 Nov 2023 | 18 | 6 Nov 2023 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2023 | 12 Nov 2023 | 20 | 12 Nov 2023 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2023 | 19 Nov 2023 | 20 | 19 Nov 2023 |
| Sprint -5 | 20 | 2 Days | 20 Nov 2023 | 22 Nov 2023 | 20 | 22 Nov 2023 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Velocity:**

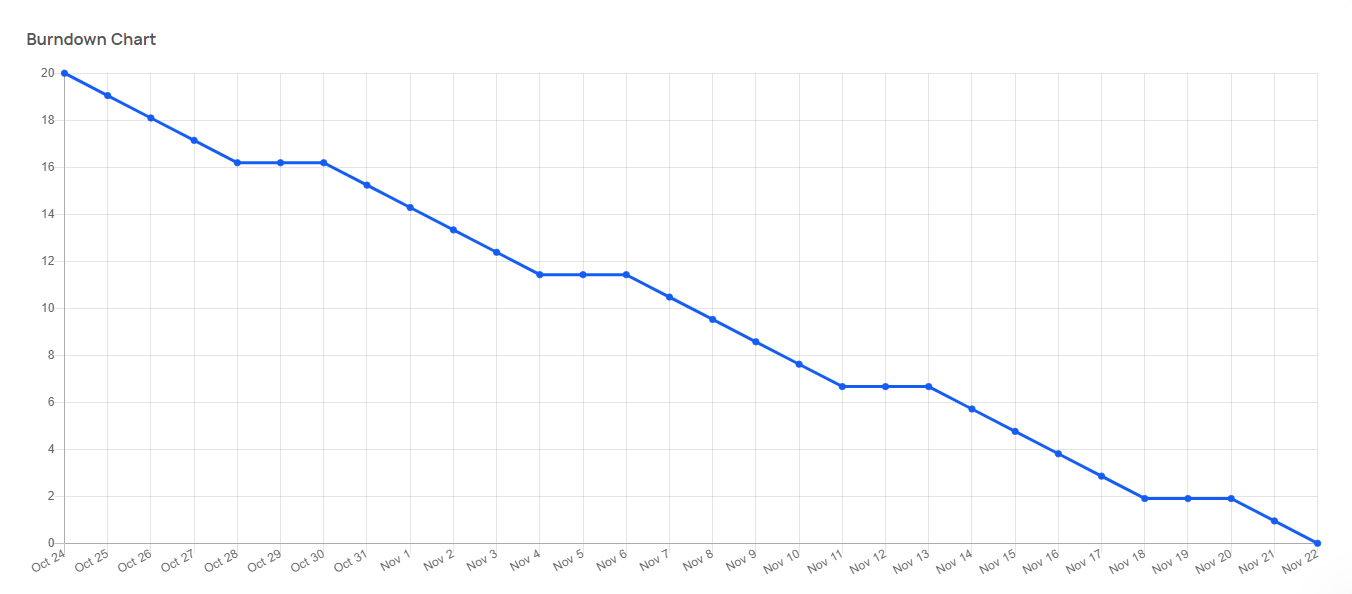
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)



Average Velocity= 20/26=0.7692

**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.



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