**Project Planning Phase**

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| --- | --- |
| Date | 18 October 2023 |
| Team ID | Team-592158 |
| Project Name | Predicting the Unpredictable: A Look into the World of Powerlifting |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation**

**(4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-1 | Data Collection and Preparation | USN-1 | Gather  relevant data  on powerlifters | 2 | High | Chaitanya |
| Sprint-1 |  | USN-2 | Clean and prepare  the data by  removing outliers,  missing values,  and scaling the  data | 1 | High | Chaitanya |
| Sprint-2 | Model Development and Evaluation | USN-3 | Research existing  machine learning  and data science  studies on  powerlifting data | 2 | Low | Anreen |
| Sprint-2 |  | USN-4 | Identify  specific  powerlifting  metrics to  predict | 2 | Medium | Anreen |
| Sprint-2 |  | USN-5 | Tune the  hyperparameters  of the machine  learning algorithm | 1 | High | Rishita |
| Sprint-3 | Model Deployment  and Monitoring | USN-6 | Deploy the  model to  production | 2 | High | Chaitanya |
| Sprint-3 |  | USN-8 | Monitor the  performance  of the model  over time | 1 | High | Pratyush |
| Sprint-3 |  | USN-9 | Retrain or  update the  model as  needed | 2 | Medium | Rishita |
| Sprint-4 | Communication and Collaboration | USN-10 | Communicate the  results of the  machine learning  project to the  team and  stakeholders | 2 | High | Pratyush |

**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 | 3 | 6 Days | 24 Oct 2022 | 29 Oct 2023 | 3 | 29 Oct 2023 |
| Sprint-2 | 5 | 6 Days | 31 Oct 2022 | 05 Nov 2023 | 5 | 06 Nov 2023 |
| Sprint-3 | 5 | 6 Days | 07 Nov 2022 | 12 Nov 2023 | 3 | 13 Nov 2023 |
| Sprint-4 | 2 | 6 Days | 14 Nov 2022 | 19 Nov 2023 |  |  |

**Velocity:**

Sprint Duration: 18 Days

Points: 11

Average Velocity = 11/18 = 0.61

**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 methodologies such

as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.