Project Planning Phase

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

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| Title | AI powered nutrition analyzer for fitness enthusiasts |
| Team id | PNT202TMID15800 |
| Maximum Marks | 8 Marks |

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

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint- 1 | Data Collection | USN-1 | Download the food nutrition dataset | 2 | High | Jai Siva Ranjani |
| Sprint- 1 | Data Preprocessing | USN-2 | Importing the Dataset into  Workspace | 1 | Medium | Jai Siva Ranjani |
| Sprint- 1 |  | USN-3 | Handling Missing data | 3 | Low | Jai Siva Ranjani |
| Sprint- 1 |  | USN-4 | Feature Scaling | 3 | Medium | Jai Siva Ranjani |
| Sprint- 1 |  | USN-5 | Data Visualization | 3 | Low | Jai Siva Ranjani |
| Sprint- 1 |  | USN-6 | Splitting Data into Train and set | 4 | High | Jai Siva Ranjani |
| Sprint- 1 |  | USN-7 | Creating A Dataset with Sliding  Windows | 4 | Medium | Jai Siva Ranjani |
| Sprint- 2 | Model Building | USN-8 | Importing The Model | 1 | HIGH | Ishwarya |

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| **Sprint** | **Functional Requirement**  **(Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
|  |  |  | Building Libraries |  |  |  |
| Sprint- 2 |  | USN-9 | Initializing The Model | 1 | Medium | Ishwarya |
| Sprint- 2 |  | USN-10 | Adding CNN Layers | 2 | High | Ishwarya |
| Sprint- 2 |  | USN-11 | Adding Dense Layers | 3 | Low | Ishwarya |
| Sprint- 2 |  | USN-12 | Configure The Learning Process | 4 | Medium | Ishwarya |
| Sprint- 2 |  | USN-13 | Train the model | 2 | Medium | Ishwarya |
| Sprint- 2 |  | USN-14 | Save the model | 2 | Medium | Ishwarya |
| Sprint- 2 |  | USN-15 | Test the model | 3 | High | Ishwarya |
| Sprint- 3 | Application Building | USN-16 | Create an HTML file | 4 | Medium | Lavanya |
| Sprint- 3 |  | USN-17 | Build Python code | 4 | High | Manasa |
| Sprint- 3 |  | USN-18 | Creating our flask application & loading our model using local model method | 4 | Medium | Manasa |

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| **Sprint** | **Functional Requirement**  **(Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint- 3 |  | USN-19 | Run the application | 4 | High | Manasa , Lavanya |
| Sprint- 4 | Train the model on IBM | USN-20 | Register for IBM Cloud | 4 | Medium | Jai SivaRanjani,  Ishwarya,  Lavanya, Manasa |
| Sprint- 4 |  | USN-21 | Train the ML Model on IBM | 4 | High | Manasa |
| Sprint- 4 |  | USN-22 | Integrate Flask with scoring End  Point | 8 | High | Manasa |

Project Tracker, Velocity & Burndown Chart:

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| --- | --- | --- | --- | --- | --- | --- |
| **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  2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint- 2 | 20 | 6 Days | 31 Oct  2022 | 05 Nov 2022 | 20 | 05 Nov  2022 |
| Sprint- 3 | 20 | 6 Days | 07 Nov  2022 | 12 Nov 2022 | 20 | 12 Nov  2022 |
| Sprint- 4 | 20 | 6 Days | 14 Nov  2022 | 19 Nov 2022 | 20 | 19 Nov  2022 |

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)



