**Project Planning Phase**

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

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| --- | --- |
| Team ID | PNT2022TMID38864 |
| Project Name | Project **-** AI-powered Nutrition Analyzer for Fitness Enthusiasts |
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**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 &**  **Image Processing** | | | | | |
| Sprint-1 |  | USN-1 | Collect images of different food items organized into subdirectories based on their respective names | 3 | Medium | Abubakkar Siddique |
| Sprint-1 |  | USN-2 | Import and configure the Image data generator library from Keras | 3 | Medium | Prasanth |
| Sprint-1 |  | USN-3 | Apply Image data generator functionality to training set and testing set | 5 | High | Syead kuiyum Muipdhur |
| Sprint-1 |  | USN-4 | Improving the image data that suppresses unwilling distortions or enhances some image features important for further processing | 3 | Medium | Kabilan |
| Sprint-2 | **Model Building &**  **Testing** | | | | | |
| Sprint-2 |  | USN-5 | Importing the model building libraries and Initializing the model | 5 | High | Abubakkar Siddique |
| Sprint-2 |  | USN-6 | Adding CNN layers, Dense layers & other necessary layers and Compile the model | 5 | High | Prasanth |
| Sprint-2 |  | USN-7 | Train & Test the model based on the image dataset | 3 | Medium | Kabilan |
| Sprint-3 | **Application building** | | | | | |
| Sprint-3 |  | USN-8 | Create HTML pages to design the front-end part of the web page | 5 | High | Kabilan |
| Sprint-3 |  | USN-9 | Create the flask application and loading the model file | 5 | High | Syead kuiyum Muipdhur |
| Sprint-3 |  | USN-10 | Routing to the HTML page and Running the application | 5 | High | Prasanth |
| Sprint-4 | **Cloud integration** | | | | | |
| Sprint-4 |  | USN-11 | Train the model on Cloud | 5 |  | Kabilan, Abubakkar Siddique |

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

| **Sprint** | **Total Story Points** | **Duration** | **Story Points Completed (as on Planned End Date)** |
| --- | --- | --- | --- |
| Sprint-1 | 20 | 6 Days | 20 |
| Sprint-2 | 20 | 6 Days | 20 |
| Sprint-3 | 20 | 6 Days | 20 |
| Sprint-4 | 20 | 6 Days | 20 |
|  |  |  |  |

**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)



**Burndown Chart:**