# Project Planning Phase

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

### 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 Food Nutrition Dataset | 4 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-1 | Image Preprocessing | USN-2 | Importing The Dataset into Workspace | 1 | Low | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-1 |  | USN-3 | Handling Missing Data | 3 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-1 |  | USN-4 | Feature Scaling | 3 | Low | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-1 |  | USN-5 | Data Visualization | 4 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-1 |  | USN-6 | Spitting the Data into the Train and Test | 4 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-1 |  | USN-7 | Creating A Dataset with Sliding Windows | 4 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |

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| Sprint-2 | Model Building | USN-8 | Importing The Model Building Libraries | 1 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-2 |  | USN-9 | Initializing The Model | 3 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-2 |  | USN-10 | Adding LSTM Layers | 2 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-2 |  | USN-11 | Adding Output Layers | 3 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |

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| Sprint-2 |  | USN-12 | Configure The Learning Process | 2 | Low | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-2 |  | USN-13 | Train The Model | 2 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-2 |  | USN-14 | Model Evaluation | 1 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-2 |  | USN-15 | Save The Model | 2 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-2 |  | USN-16 | Test The Model | 3 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-3 | Application Building | USN-17 | Create An HTML File | 4 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-3 |  | USN-18 | Build Python Code | 4 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-3 |  | USN-19 | Creating our Flask application and loading our model by using load\_model method | 4 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-3 |  | USN-20 | Routing to HTML page | 4 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |

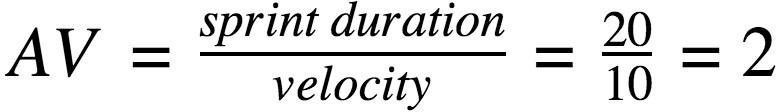
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| Sprint-3 |  | USN-21 | Run the application | 2 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-4 | Train The Model On IBM | USN-21 | Register For IBM Cloud | 4 | Medium | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-4 |  | USN-22 | Train The ML Model On IBM | 8 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |
| Sprint-4 |  | USN-23 | Integrate Flask with Scoring End Point | 8 | High | Arjun, Abinav, Arun Kumar, Vignesh Hari Shankar. |

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

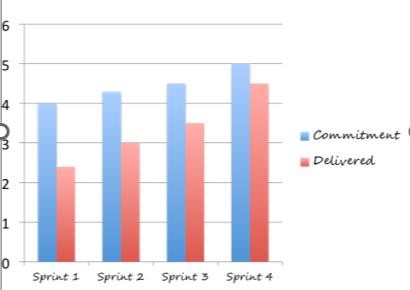
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| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 6 Days | 2 Nov 2022 | 2 Nov 2022 | 20 | 06 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 08 Nov 2022 | 09 Nov 2022 | 20 | 10 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 11 Nov 2022 | 12 Nov 2022 | 20 | 13 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 17 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)



**Velocity chart:**



## Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time.It is often used in agile software develpoment methodologies such as Scurm.However burndown charts can be applied to any project containing measurable progress over time.

# An Approximate Workplan in Burndown

