# Project Planning Phase

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)**

|  |  |
| --- | --- |
| **Date** | **09-11-2022** |
| **Team ID** | PNT2022TMID03196 |
| **Project Name** | **Estimate The Crop Yield Using Data Analytics** |
| **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 | Registration | USN-1 | As a user, I can register for by entering my Agri - id card andrequest. | 2 | High | Soundappan  Sowmya  Sree nidhi |
|  |  |  |  |  |  | Sri varshini |
|  |  |  |  |  |  |  |
|  |  | USN-3 | As a user, I can register for the application through Gmail | 2 | Medium | Soundappan  Sowmya |
|  | Login | USN-4 | As a user, I can Call and request or Approach for dataset | 4 | High | Soundappan  Sowmya |
|  |  |  |  |  |  | Sri varshini |
|  | Working with the Dataset | USN-5 | To work on the given dataset, Understand the Dataset. | 2 | High | Soundappan  Sowmya  Sree nidhi |
|  |  |  |  |  |  | Sri varshini |
|  |  |  |  |  |  |  |
|  |  | USN-6 | Load the dataset to Cloud platform then Build the required Visualizations. | 10 | High | Soundappan  Sri varshini |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-2 | Data Visualization Chart | USN-7 | Using the Crop production in Indian dataset, create various graphs and charts to highlight the insights and visualizations.  \*Build a Visualization to showcase Average Crop Production by Seasons. | 4 | Medium | Soundappan  Sowmya  Sree nidhi  Sri varshini |
| \*Showcase the Yearly usage of Area in Crop Production. | 4 | Medium | Sree nidhi  Sri varshini |
| Build Visual analytics to represent the States with Seasonal Crop Production using a Text representation. | 4 | Medium | Soundappan  Sree nidhi  Sri varshini |
| Sprint-3 | Creating The dashboard | USN-8 | Create the Dashboard by using the created visualizations. | 20 | High | Soundappan  Sowmya  Sree nidhi  Sri varshini |
| Sprint-4 | Export The Analytics | USN-9 | Export the created Dashboard | 20 | High | Sowmya  Sri varshini |

**Project Tracker, Velocity & Burn down 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 | 15 Days | 01 Sept 2022 | 16 Sept 2022 | 20 | 16 Sept 2022 |
| Sprint-2 | 20 | 15 Days | 17 Sept 2022 | 02 Oct 2022 | 20 | 02 Oct 2022 |
| Sprint-3 | 20 | 15 Days | 03 Oct 2022 | 17 Oct 2022 | 20 | 17 Oct 2022 |
| Sprint-4 | 20 | 20 Days | 18 Oct 2022 | 08 Nov 2022 | 20 | 08 Nov 2022 |

**Velocity:**

We have a 24-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)

# AV = Sprint Duration / Velocity = 24 / 20 = 1.2

**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.

