# Project Planning Phase

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

|  |  |
| --- | --- |
| Date | 5 November2022 |
| Team ID | PNT2022TMID43111 |
| Project Name | Estimate The Crop Yield Using Data Analytics |

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

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 | Registration | USN-1 | As a user, I can register for by entering my Agri - id card and request.. | 2 | High | Deepak  Yuvaraj  Bhuvaneswari  Devadharshini |
| USN-3 | As a user, I can register for the application through Gmail | 2 | Medium | Deepak  Yuvaraj |
| Login | USN-4 | As a user, I can Call and request or Approach for dataset | 4 | High | Deepak  Devadharshini |
| Working with the Dataset | USN-5 | To work on the given dataset, Understand the Dataset. | 2 | High | Bhuvaneswari  Devadharshini  Deepak  Yuvaraj |
| USN-6 | Load the dataset to Cloud platform then Build the required Visualizations. | 10 | High | BhuvaneswariDevadharshini |
| 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 | Deepak  Yuvaraj |
| \*Showcase the Yearly usage of Area in Crop Production. | 4 | Medium | Yuvaraj  Devadharshini |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
|  |  |  | Build a visualization to show case top 10 States in Crop Yield Production by Area. | 4 | Medium | Deepak  Devadharshini |
| Build the required Visualization to showcase the Crop Production by State. | 4 | Medium | Bhuvaneswari  Deepak |
| Build Visual analytics to represent the Sates with Seasonal Crop Production using a Text representation. | 4 | Medium | Deepak  Bhuvaneswari |
| Sprint-3 | Creating The dashboard | USN-8 | Create the Dashboard by using the created visualizations. | 20 | High | Yuvaraj  Deepak |
| Sprint-4 | Export The Analytics | USN-9 | Export the created Dashboard | 20 | High | Devadharshini  Yuvaraj |

## 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 | 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:**

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.

