**Project Planning Phase**

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

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| --- | --- |
| Date | 29 October 2022 |
| Team ID | PNT2022TMID02241 |
| Project Name | Estimate the crop yield using data analytics |
| Maximum Marks | 8 Marks |

**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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Rokhini Priya |
|  |  | USN-2 | As a user, I can register for the application through Gmail | 2 | Medium | Reaia Ranjith |
|  | Login | USN-3 | As a user, I can log into the application by entering registered email & password | 2 | High | Sangeetha |
|  | Working with the Dataset | USN-4 | To Understand the Dataset and to work on it | 2 | Medium | Revendh Kumar |
|  |  | USN-5 | To Build required Visualization, Load the dataset to Cloud platform | 3 | High | Reaia Ranjith |
| Sprint- 2 | Data Visualization Chart | USN-6 | Using the Crop production in Indian dataset,create multiple analysis graphs/charts.  Showcase the Yearly usage of Area in Crop Production. | 5 | Medium | Sangeetha |
|  |  | USN-7 | Build a Visualization to showcase Average Crop Production bySeasons. | 5 | Medium | Rokhini Priya |
| Sprint- 2 | Data Visualization Chart | USN-8 | Build a visualization to show case top 10 States in Crop YieldProduction by Area. | 5 | Medium | Revendh Kumar |
|  |  | USN-9 | Build the required Visualization to showcase the Crop Production byState. | 5 | Medium | Reaia Ranjith |
|  |  | USN-10 | Build Visual analytics to represent the Sates with Seasonal CropProduction using a Text representation. | 5 | Medium | Rokhini Priya |
| Sprint- 3 | Dashboard Creation | USN-11 | Create the Dashboard by using the created visualization Charts/graph. | 7 | High | Sangeetha |
| Sprint- 4 | Export The Analytics | USN-12 | Export the created Dashboard, share the work either through email/link/pdf | 7 | High | Revendh Kumar |

**Project Tracker, Velocity & Burndown 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 | 11 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 25 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 7 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 7 | 14 Nov 2022 |
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**Velocity:**

For Sprint-1 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 11 / 6 = 1.83

For Sprint-2 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 25 / 6 = 4.16

For Sprint-3 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 7 / 6 = 1.16

For Sprint-4 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 7 / 6 = 1.16

**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 methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

