Project Planning Phase

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

Date	25 October 2022
Team ID	PNT2022TMID37320
Project Name	ESTIMATION OF CROP YIELD USING DATA NALYTICS
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 phone number and name,	2	Medium	Naveen Kumar SR
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	Medium	Santosh Kumar M
Sprint-1	Login	USN-3	As a user, I can log into the application by entering phone number.	1	Medium	Udhaya Kumar S
Sprint-1	Analysis and Estimation(Working and Loading the dataset)	USN-4	As a user, I can view the crop forecast of the present and upcoming days and upload the dataset and loading the dataset	3	High	Varun Kumar
Sprint-2	Analysis and Estimation(Data Visualization Charts)	USN-5	As a user, I can visualise the data of crop production to know the insights Where Average Crop Production by Seasons, the Yearly usage of Area in Crop Production, top 10 States in Crop Yield Production by Area, the Crop Production by State and the Sates with Seasonal Crop Production can be known.	20	High	Santosh Kumar M Udhaya Kumar S Naveen Kumar SR

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Dashboard	USN-6	As a User , I can use Cognos Analytics with Watson Services, An interactive dashboard must be created and viewed.	20	High	Varun Kumar
Sprint-4	Analysis and Estimation(Exportation /Export The Analytics)	USN-7	As a user, I can view the dashboard and visualization of crop production that is being exported either through email/link/pdf.	20	High	Varun 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	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:

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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

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

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics **https://www.atlassian.com/agile/tutorials/sprints**

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts