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

Date	27-10-2023
Team ID	Team-591242
Project Name	India's Agricultural Crop Production Analysis
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	Priority	Story points	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering email, password, and confirming my password	high	2	Abhi Ram

Sprint-1	Data Retrieval and Analysis	USN-1	As a user, I want to access historical crop production data through a user-friendly interface so that I can make informed policy decisions and resource allocation.	High	1	Soma Tejaswi
Sprint-1	Advanced Data Query and Retrieval	USN-1	As a user, I want to retrieve detailed crop production statistics, including yield and acreage, for specific regions to support my academic studies.	High	1	Charan Kumar
Sprint-2	Data Visualization	USN-1	As a user, I want to visualize crop production trends in my region over the past decade, allowing me to make more informed planting decisions.	Medium	4	Kartheek
Sprint-2	Weather-Crop Correlation Visualizations	USN-1	As a user, I need access to data visualizations that clearly show the impact of weather patterns on crop yields so that I can provide accurate reporting on agricultural issues.	Medium	4	Charan Kumar

Sprint-3	Educational Data Visualizations	USN-1	As a user, I want to explore interactive visualizations of crop production data to deepen my understanding of agriculture in India for my coursework.	Low	3	Abhi Ram
Sprint-1		USN-2	As a user I will receive conformation email once I have register for the application	high	1	Kartheek
Sprint-2		USN-3	As a user, I can register for the application through Facebook, LinkedIn	low	2	Soma Tejaswi
Sprint-1		USN-4	As a user, I can register for the application through Gmail	medium	1	Soma Tejaswi
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email and password	high	1	Abhi Ram

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	7	8 Days	28 Oct 2023	3 Nov 2023	20	28 Oct 2023
Sprint-2	10	8 Days	4 Nov 2023	11 Nov 2023		
Sprint-3	3	6 Days	12 Nov 2023	17 Nov 2023		

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)

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

AV = 22/20 = 1.1

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

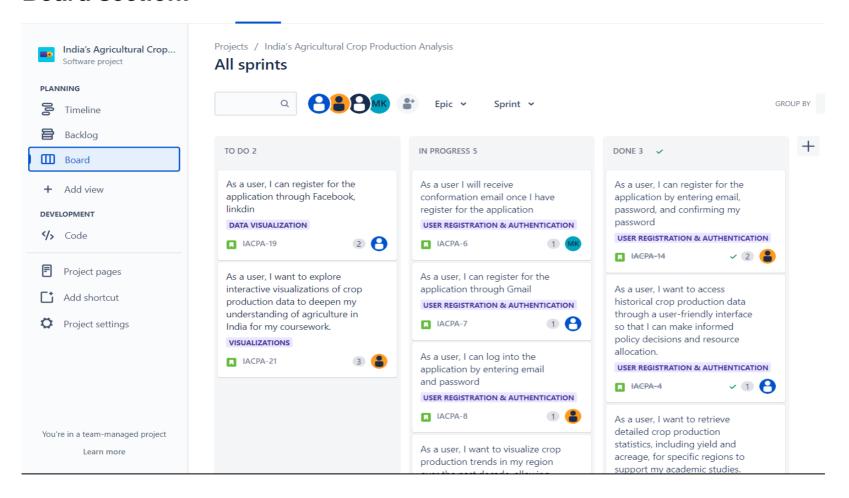**https://www.atlassian.com/agile/tutorials/sprints**

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

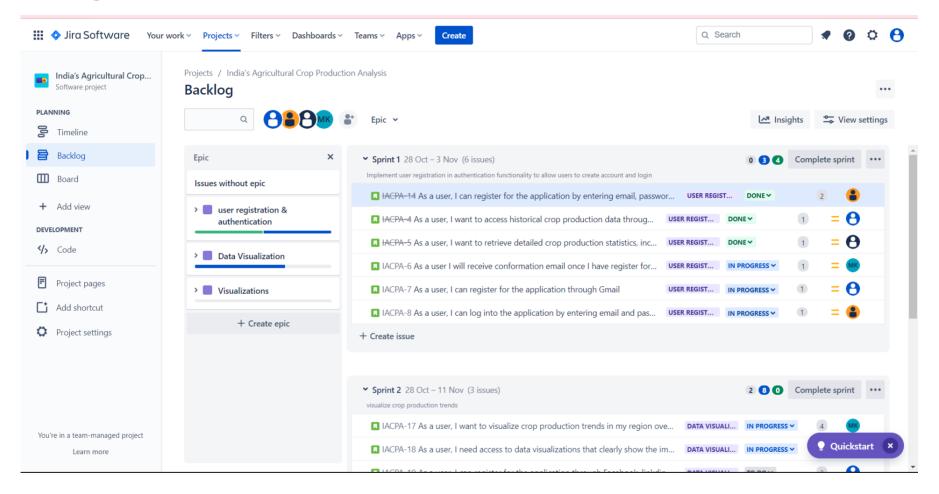**https://www.atlassian.com/agile/tutorials/burndown-charts**

Burndown chart:

Sprint burndown   BETA ❓ ⌄

4 points done, 13 points to go

Remaining work   Guideline

Oct 28 ... Nov 3

(y-axis: 100%, 80%, 60%, 40%, 20%, 0%)

Board section:

Backlog:

Timeline: