

Project Planning Phase

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

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|---------------|---|
| Date | 16NOV2022 |
| Team ID | PNT2022TMID51203 |
| Project Name | IOT based smart crop protection for Agriculture |
| 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 | CLARIFAI | USN-1 | Sensors and wi-fi module with python code To create application in clarifai and run the python code | 2 | High | A.Sarthaj, M.Deepika, G.Lokeshwari, P.Rathipriya |
| Sprint-2 | SOFTWARE | USN-2 | IBM watson iot platform , workflows for iot scenarios using node-red | 2 | High | A.Sarthaj, M.Deepika, G.Lokeshwari, P.Rathipriya |
| Sprint-3 | SOFTWARE | USN-3 | Connecting iot device with object storage | 2 | high | A.Sarthaj, M.Deepika, G.Lokeshwari, P.Rathipriya |
| Sprint-4 | WEB UI | USN-4 | To make the user to interact with software | 2 | high | A.Sarthaj, M.Deepika, G.Lokeshwari, P.Rathipriya |

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 Nov2022 |

| 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-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 | 14 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)

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

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.

