

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 | Mobile/web user Registration | USN-1 | As a user I can register the application by entering my email, password so that feel good | 10 | High | Chandru S |
| Sprint-1 | | USN-2 | As a user I want confirmation mail for registration | 10 | Medium | Aarshi P |
| Sprint-2 | Mobile/web user Login | USN-3 | As a user I can login the application by entering my email and password so that am entering the application | 10 | High | Abinaya P |
| Sprint-2 | | USN-4 | As a user I can login to the application by entering my phone number so can easily enter into the dashboard | 10 | Low | Sangeetha S |
| Sprint-3 | Monitoring and controlling | USN-5 | As a user I want smart application so that monitor the fields | 2 | High | Chandru S |
| Sprint-3 | | USN-6 | As a user I want to know the temperature level so that easily know irrigation timing | 5 | High | Aarshi P |
| Sprint-3 | | USN-7 | As a user I want to check the humidity so that helpful to put water | 5 | Low | Abinaya P |
| Sprint-3 | | USN-8 | As a user I want a smart application so that monitor anywhere at anytime | 3 | Low | Sangeetha S |
| Sprint-3 | | USN-9 | As a user I want motor control so that stop water wastage | 5 | High | Abinaya P |

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| Sprint-4 | Software connection | USN-10 | As a admin I want to satisfy their users so that connect & store in ibm iot | 5 | Medium | Chandru S |
| Sprint-4 | | USN-11 | As a admin I want to make software (node red, ibm Watson) connection so that simulate the values | 5 | Medium | Abinaya P |
| Sprint-4 | | USN-12 | As a admin I want to test the application so that know it's work or not | 10 | High | Chandru S |
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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 06-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)

$$\text{Average Velocity} = \text{Sprint Duration} / \text{Velocity} = 20/6=3.33$$

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.

