

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

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|---------------|--|
| Date | 09 November 2022 |
| Team ID | PNT2022TMID18885 |
| Project Name | Project–Personal Assistance for Seniors Who Are Self Reliant |
| 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 | Medicine data (Python script) | USN-1 | Here we are using python script to generate the random data. | 8 | High | Bhavani R K Akshayasri S |
| Sprint-2 | IBM IOT platform | USN-2 | To send the data to IOT Device, IBM IOT platform is created. | 5 | High | Anne Angelina J Kawin M |
| Sprint-3 | Node RED Service | USN-3 | To access the IBM IOT platform from external application or from external UI Node red service is established. | 5 | High | Bhavani R K Akshayasri S |
| Sprint-4 | User Application | USN-4 | To Set time and medicine details the User is provided with an user application created by MIT App Inventor | 5 | High | Anne Angelina J Bhavani R K Kawin M |
| Sprint-4 | Registration | USN-5 | As a user, I can register for the application by entering my username, password, and confirming my password. | 3 | Low | Akshayasri S Anne Angelina J |
| Sprint-4 | Login | USN-6 | As a user, I can login into the application by entering email & password. | 2 | Low | Anne Angelina J Kawin M |

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 | 8 | 5 Days | 25 Oct 2022 | 29 Oct 2022 | 8 | 29 Oct 2022 |
| Sprint-2 | 5 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 5 | 06 Nov 2022 |
| Sprint-3 | 5 | 5 Days | 07 Nov 2022 | 11 Nov 2022 | 5 | 12 Nov 2022 |
| Sprint-4 | 10 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 10 | 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)

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

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.