

Project Planning Phase

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

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| Date | 01 November 2022 |
| Team ID | PNT2022TMID08883 |
| Project Name | Visualizing and Predicting Heart Diseases with an Interactive Dash Board |
| 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 email, password, and confirming my password. | 3 | High | 1 |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 3 | High | 3 |
| Sprint-1 | | USN-3 | As a user, I can register for the application through Gmail | 3 | Medium | 1 |
| Sprint-1 | Login | USN-4 | As a user, I can log into the application by entering email & password | 6 | High | 5 |
| Sprint-2 | Dashboard | USN-5 | Attractive dashboard For the Application | 3 | Medium | 3 |
| Sprint-2 | | USN-6 | Profile - view & update your profile | 5 | Low | 2 |
| Sprint-2 | | USN-7 | Home - Analyze your Heart problem | 2 | High | 4 |
| Sprint-2 | | USN-8 | The user will have to fill in the below 13 fields for the system to predict a disease - Age in year -Gender -Chest pain Type -Fasting Blood Sugar -Resting Electrographic Results -Exercise Induced Angina -Trust Blood Pressure | 7 | High | 2 |

| | | | | | | |
|----------|---------|-------|-------------------------|----|--------|---|
| Sprint-3 | Support | USN-9 | Get feedback from users | 10 | Medium | 3 |
|----------|---------|-------|-------------------------|----|--------|---|

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|--|--------------|----------|--------------|
| Sprint-3 | | USN-10 | Responds to user queries via telephone,email etc. | 3 | Medium | 2 |
| Sprint-3 | | USN-11 | The team must respond immediately to the queries based on the priority | 5 | High | 5 |
| Sprint-4 | System Requirements | USN-12 | Hardware Requirement <ul style="list-style-type: none"> 1. Laptop or PC <ul style="list-style-type: none"> • i5 processor system or higher • 4 GB RAM or higher • 128 GB ROM or higher 2. Mobile <ul style="list-style-type: none"> • (12.0 and above) | 5 | Low | 2 |
| Sprint-4 | | USN-13 | Software Requirement <ul style="list-style-type: none"> 1. Laptop or PC <ul style="list-style-type: none"> • Windows 10 or higher • Android Studio | 8 | Medium | 4 |

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 | 30 Oct 2022 | 04 Nov 2022 | 17 | 04 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 05 Nov 2022 | 11 Nov 2022 | 18 | 11 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 12 Nov 2022 | 17 Nov 2022 | 19 | 17 Nov 2022 |

Velocity:

Imagine we have a 6-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)

$$AV = \text{Sprint duration} / \text{velocity} = 20 / 6 = 3$$

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.

