

## Project Planning Phase

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

|               |  |
|---------------|--|
| Date          | 2 November 2022  |
| Team ID       | PNT2022TMID16827   |
| Project Name  | Project - Visualizing and Predicting Heart Diseases with an Interactive Dash Board |
| Maximum Marks | 8 Marks  |

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

product backlog and sprint schedule

| Sprint   | Functional Requirement (Epic)  | User Story Number | User Story / Task  | Story Points | Priority | Team Members |
|----------|--------------------------------|-------------------|--|--------------|----------|--------------|
| Sprint-1 | Customizable dashboard         | USN-1             | As a user, the dashboard has to be able to position the graphs and charts in a way that benefits the data story as well as being able to add the colors, logo, and font of your business for an extra professional look. this will make your dashboards more accessible and focused.               | 1            | High     | 1            |
| Sprint-1 | Mobile-friendliness            | USN-2             | As a user, Accessibility is key when it comes to dashboarding. Considering the fast-paced world that we live in where professionals are moving from the office to their homes and to other locations, mobile friendliness is a must.   | 1            | High     | 1            |
| Sprint-2 | User-friendliness              | USN-3             | As a user, the dashboard can have a drag-and-drop feature that allows users to easily place their most important KPIs into the dashboard with just a few clicks. This way, we open the analytical doors to everyone in the company and data-driven culture will be formed across the organization. | 2            | Low      | 2            |
| Sprint-3 | Multiple visualization options | USN-4             | As a user, including multiple visualization options is another important aspect to consider. This gives you the flexibility to tell your data  | 2            | Medium   | 2            |

| Sprint   | Functional Requirement (Epic) | User Story Number | User Story / Task  | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|--|--------------|----------|--------------|
|          |                               |                   | story in the way that you think fits best with the help of interactive graphics.   |              |          |              |
| Sprint-4 | Real-time data access         | USN-5             | As a user, Dashboards that provide real-time data access enable users to make important decisions as soon as something good or bad happens. This way, they avoid wasting resources on strategies that are not successful and can spot any potential opportunities to exploit in real time. | 2            | High     | 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   | 23 Oct 2022       | 29 Oct 2022               | 20  | 29 Oct 2022                  |
| Sprint-2 | 20                 | 6 Days   | 31 Oct 2022       | 05 Nov 2022               |   | -                            |
| Sprint-3 | 20                 | 7 Days   | 07 Nov 2022       | 13 Nov 2022               |   | -                            |
| Sprint-4 | 20                 | 15 Days  | 14 Nov 2022       | 28 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.

