

## Project Planning Phase

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

|                      |   |
|----------------------|---|
| <b>Date</b>          | 25 October 2022                                   |
| <b>Team ID</b>       | PNT2022TMID27559                                  |
| <b>Project Name</b>  | Project - Analytics for Hospitals Healthcare Data |
| <b>Maximum Marks</b> | 8 Marks   |

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

Use the below template to create a product backlog and sprint schedule

| <b>Sprint</b> | <b>Functional Requirement (Epic)</b>            | <b>User Story Number</b> | <b>User Story / Task</b>  | <b>Story Points</b> | <b>Priority</b> | <b>Team Members</b>  |
|---------------|---|--------------------------|---|---------------------|-----------------|----------------------|
| Sprint-1      | Register  | USN-1                    | As an Admin, I can register users and provide usernames and passwords.  | 10                  | Medium          | Sneha D              |
| Sprint-1      | Login   | USN-2                    | As a user, I can log in to the website/ application using username and password                                   | 10                  | Medium          | Anshiya Antrolin E.S |
| Sprint-2      | Data Preparation, Exploration and Visualization | USN-3                    | As a user, I need a visualized dashboard of the number of beds occupied and the number of free beds in a hospital | 20                  | High            | Bavithira R..S       |
| Sprint-2      | Dashboard                                       | USN-4                    | As a user, I can add Patient Details like Patient name, contact number, age,etc.                                  | 20                  | High            | Bavithira R.S        |
| Sprint-3      | Dashboard                                       | USN-5                    | As a user, I want the interactive dashboard to analyze the data. Have the data in terms of Graph.                 | 20                  | High            | Shinia D             |
| Sprint-3      | Dashboard                                       | USN-6                    | As a user, I can upload patient medical reports and maintain records.   | 10                  | Medium          | Shinia D             |
| Sprint-4      | Predict LOS                                     | USN-7                    | As a user, I want a flawless system to predict the patient's length of stay.                                      | 20                  | High            | Anshiya Antrolin E.S |

### Project Tracker, Velocity & Burndown Chart: (4 Marks)

| Sprint   | Total Story Points | Duration | Sprint Start Date | Sprint EndDate (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|----------|--------------------|----------|-------------------|--------------------------|---|------------------------------|
| Sprint-1 | 20                 | 6 Days   | 22 Oct 2022       | 29 Oct 2022              | 20  | 29 Oct 2022                  |
| Sprint-2 | 40                 | 6 Days   | 31 Oct 2022       | 05 Nov 2022              | 40  | 05 Nov 2022                  |
| Sprint-3 | 30                 | 6 Days   | 7 Nov 2022        | 12 Nov 2022              | 30  | 12 Nov 2022                  |
| Sprint-4 | 20                 | 6 Days   | 14 Nov 2022       | 19 Nov 2022              | 20  | 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 burndown 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.

