

## Project Planning Phase

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

|               |  |
|---------------|--|
| Date          | 18 October 2022  |
| Team ID       | PNT2022TMID14240   |
| Project Name  | Early Detection of Chronic Kidney Disease Using Machine Learning |
| Maximum Marks | 8 Marks  |

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

| Sprint   | Functional Requirement (Epic) | User Story Number | User Story / Task   | Story Points | Priority | Team Members              |
|----------|-------------------------------|-------------------|---|--------------|----------|---------------------------|
| Sprint-1 | Collection of Datasets        | USN-1             | Collect dataset from google and clean the datasets          | 5            | High     | Dincy V D                 |
| Sprint-1 | Model                         | USN-2             | Create, test and save the model                             | 5            | High     | Harini G<br>Divya Rani R  |
| Sprint-2 | Home Page                     | USN-3             | The user can enter into the home page                       | 6            | Medium   | Brindha C                 |
| Sprint-2 | Quiz                          | USN-4             | User can take up the quiz to know the prediction result.    | 4            | High     | Dincy V D                 |
| Sprint-3 | Result                        | USN-5             | The user will get the output                                | 3            | High     | Brindha C<br>Divya Rani R |
| Sprint-3 | Remedies                      | USN-6             | The user will get the remedies according to their symptoms. | 7            | Medium   | Harini G                  |
| Sprint-4 | Doctor's Appointments         | USN-7             | The users also get Doctor's appointment if needed           | 4            | Medium   | Dincy V D<br>Harini G     |
| Sprint-4 | Deployment                    | USN-8             | Deploy into IBM Cloud                                       | 6            | High     | Brindha C<br>Dincy V D    |

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

| <b>Sprint</b> | <b>Total Story Points</b> | <b>Duration</b> | <b>Sprint Start Date</b> | <b>Sprint End Date (Planned)</b> | <b>Story Points Completed (as on Planned End Date)</b> | <b>Sprint Release Date (Actual)</b> |
|---------------|---------------------------|-----------------|--------------------------|----------------------------------|--|-------------------------------------|
| 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   | 31-Oct 2022                         |
| Sprint-3      | 20                        | 6 Days          | 07 Nov 2022              | 12 Nov 2022                      | 20   | 07-Nov 2022                         |
| Sprint-4      | 20                        | 6 Days          | 14 Nov 2022              | 19 Nov 2022                      | 20   | 14-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)

$$\text{AV} = \text{Sprint duration} / \text{Velocity} = 20/6 = 3.33$$

## 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.

