Project Planning Phase

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

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| --- | --- |
| Date | 22 October 2022 |
| Team ID | PNT2022TMID42291 |
| Project Name | Early Detection of Chronic Kidney Disease using Machine Learning |
| Maximum Marks | 8 Marks |

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | User Registration | USN-1 | As a user, I can register for the application by entering my name, mobile number, email, and password, and confirming my password. | 10 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |
| Sprint-2 |  | USN-2 | As a user, I can register for the application through Gmail | 5 | Medium | BALAJI  MAHENDRA  SHAFI HIMAVANTH |
| Sprint-1 | User Confirmation | USN-3 | As a user, I will receive a confirmation email once I have registered for the application | 10 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |
| Sprint-2 |  | USN-4 | As a user, I will receive confirmation OTP to verify my identity. | 5 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |
| Sprint-2 | Data Collection | USN-5 | As a user, I will enter the input data for disease prediction in the form | 10 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-3 | Provide output to the user | USN-6 | As a user, I will get the result of disease prediction in the dashboard. | 10 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |
| Sprint-3 | Data Analysis | USN-7 | As the admin, I will develop modules to preprocess and store the data. | 10 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |
| Sprint-4 | Prediction of disease | USN-8 | As the admin, I will build a Machine Learning model to predict the disease | 10 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |
| Sprint-4 | Final Delivery | USN-9 | Deploy the application in IBM cloud and make it available for use. | 10 | High | BALAJI  MAHENDRA  SHAFI HIMAVANTH |

# 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 |  |  |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 |  |  |

**Velocity:**

We have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). The team’s average velocity (AV) per iteration unit (story points per day)

# AV = Sprint duration / velocity = 20 / 6 = 3.33

**Burndown Chart**

