# PROJECT PLANNING PHASE

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| Date | 22 October 2022 |
| Team ID | PNT2022TMID23120 |
| Project Name | Early Detection of Chronic Kidney Disease Using Machine Learning |
| Maximum Marks | 8 Marks |

Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Registration | USN-1 | New user enters into the System. He/ She can register into the Application by entering user details such as username and  mobile number | 2 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| Sprint-2 | User Verification | USN-2 | The user will receive OTP through SMS. | 3 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| Sprint-1 | Login | USN-3 | After Successful registration the user can  Log into the application by entering the registered Username and Password | 2 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Member** |
| **Sprint -1** |  | USN-4 | CAPTCHA will be provided to reduce the network traffic. | 2 | Medium | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -2** | Dashboard | USN-5 | User can get into the Dashboard only when the Verification Successful. After  the user can access the displayed information in the Dashboard | 3 | Medium | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -3** | Data collection | USN-6 | Diagnosed result data will be entered by  the user. | 2 | Medium | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -4** | Prediction result | USN-7 | By the collected data the trained model  will predict and display the result. | 2 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -4** |  | USN-8 | Based on the result the suggestion varies. | 2 | Low | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -1** | Dataset Collection | USN-9 | Chronic Kidney Disease dataset identification | 2 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| **Sprint -1** | Clean the Dataset | USN-10 | The dataset had to be cleaned.  Cleaning process includes removing null values, Replacing missing values, segregation of test  and train data | 3 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -2** | Train ML Model in IBM | USN-11 | The model will be trained in IBM. | 4 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -3** | Model Testing | USN-12 | The model will be tested using the test data | 3 | High | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -3** | Integration | USN-13 | HTML file and python Code Integration | 2 | Medium | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -4** | Deployment | USN-14 | The model will be deployed in Cloud | 3 | Medium | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |
| **Sprint -4** | Further Clarification | USN-15 | The problems which are faced by the user  while using the application can be clarified | 2 | Medium | M.Gokul shyam  G.V.Arun  S.Muthalagu  Jeyrengarajendiran |

**Project Tracker, Velocity & Burndown Chart**

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| --- | --- | --- | --- | --- | --- | --- |
| **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** | **11** | 6 Days | 24 Oct  2022 | 29 Oct  2022 | **11** | 19 Nov  2022 |
| **Sprint -2** | **10** | 6 Days | 31 Oct  2022 | 05 Nov  2022 | **10** | 05 Nov  2022 |
| **Sprint -3** | **7** | 6 Days | 07 Nov  2022 | 12 Nov  2022 | **7** | 12 Nov  2022 |
| **Sprint -4** | **9** | 6 Days | 14 Nov  2022 | 19 Nov  2022 | **9** | 19 Nov  2022 |

## Velocity:

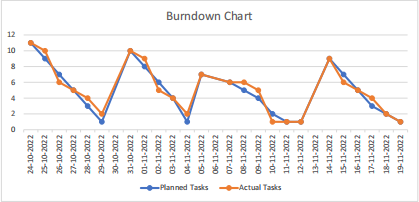
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day).

Sprint 1 AV = Sprint duration/velocity = 11/6 = 1.83 Sprint 2 AV = Sprint duration/velocity = 10/6 = 1.67 Sprint 3 AV = Sprint duration/velocity = 7/6= 1.16 Sprint 4 AV = Sprint duration/velocity = 9/6 = 1.5

## 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.



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