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

Date	18 October 2022
Team ID	PNT2022TMID18040
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	Home Page	USN-1	As a user, I can view the home page of the web application.	20	Low	Ravikumar V Shaolin Hari R Surya Prakash R VijayKumar A
Sprint-2	Data Entry and Data Analysis	USN-2	As a user, I will develop modules to pre process.	20	Medium	Ravikumar V Shaolin Hari R Surya Prakash R VijayKumar A
Sprint-3	Prediction of Disease	USN-3	As a user, I will build a Machine Learning model to predict the disease.	20	Medium	Ravikumar V Shaolin Hari R Surya Prakash R VijayKumar A
Sprint-4	Final Delivery	USN-4	Deploy the application in IBM cloud and make it available for use.	20	Medium	Ravikumar V Shaolin Hari R Surya Prakash R VijayKumar A

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	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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)

Average sprint velocity is 20 ÷ 6 = 3.33.

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.

Burndown Chart

Oct	Oct	Nov	Nov	Nov
10/24 - 10/29		10/31 - 11/05	11/14 - 11/19	11/14 - 11/19

Sprint - 1
1. Collect dataset
2. Read dataset
3. Clean dataset
4. Split to independent and dependent variable

Sprint - 2
1. Choose the model
2. Analysing metrics of model
3. Create Model
4. Save Model

Sprint - 3
1. Build python flask app
2. Build html pages namely homepage and predict page
3. Execute and test the model

Sprint -4
1. Train the model on IBM
2. Register for IBM cloud
3. Train the ML model on IBM
4. Integrate flask with Model

Finished	4	Finished	8	Finished	11	Finished	15
To-do	11	To-do	7	To-do	4	To-do	0