Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18 October 2022
Team ID	PNT2022TMID07996
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	Collecting the Dataset	USN-1	I need to collect dataset provided by IBM resource	10	High	Team Lead Team Member 1 Team Member 2 Team Member 3
Sprint-1	Data Pre-processing	USN-2	I need to take raw data from dataset and transform it into a format which is more understandable and analysed by machine learning algorithms.	10	High	Team Lead Team Member 1 Team Member 2 Team Member 3
Sprint-2	Building the Model	USN-3	I need to explore the various types of algorithms which can be used to train and test the model for predicting the best accurate output.	12	Medium	Team Lead Team Member 1 Team Member 2 Team Member 3
Sprint-2	Model Evaluation	USN-4	After building the model I need to select the best ML model based on high accuracy for accurate prediction.	18	High	Team Lead Team Member 1 Team Member 2 Team Member 3
Sprint-3	UI Designing	USN-5	As a developer, I need to design a simple and understandable user interactive UI	8	Medium	Team Lead Team Member 1 Team Member 2 Team Member 3

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	UI Integration	USN-6	As a developer, I need to integrate the user interface and the trained model using Flask.	14	High	Team Lead Team Member 1 Team Member 2 Team Member 3
Sprint-4	Integration with IBM Cloud	USN-7	Integrating trained IBM Cloud Model with scoring endpoints using flask.	12	Medium	Team Lead Team Member 1 Team Member 2 Team Member 3
Sprint-4	Deployment	USN-8	Deploying the IBM model, backend, flask and frontend application in Cloud	11	High	Team Lead Team Member 1 Team Member 2 Team Member 3
Sprint-4	Further Classification	USN-9	Providing user about the prevention measures ,treatment suggestion and healthy diet routine suggestion.	7	Medium	Team Lead Team Member 1 Team Member 2 Team Member 3

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	30 Oct 2022
Sprint-2	30	6 Days	31 Oct 2022	05 Nov 2022	30	06 Nov 2022
Sprint-3	22	6 Days	07 Nov 2022	12 Nov 2022	22	13 Nov 2022
Sprint-4	30	6 Days	14 Nov 2022	19 Nov 2022	30	20 Nov 2022

Velocity:

We have a 6-day sprint duration, and the velocity of the team is 20 to 30 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)
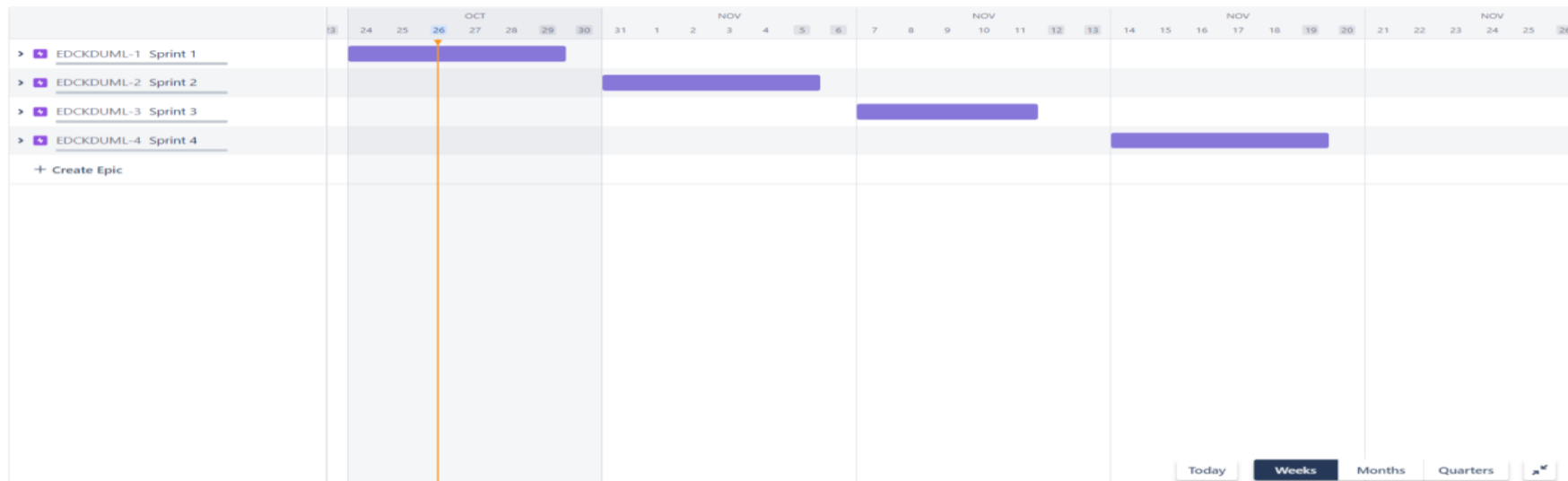
Sprint 1 AV = Sprint duration/velocity = 20/6 = 3.33

Sprint 2 AV = Sprint duration/velocity = 30/6 = 5

Sprint 3 AV = Sprint duration/velocity = 22/6 = 3.66

Sprint 4 AV = Sprint duration/velocity = 30/6 = 5

Total Average Velocity=4.24

RoadMap:

Burndown Chart: