Project Planning Phase

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

Date	October 24 2022
Project Name	Early Detection Chronic Kidney Disease using Machine Learning
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	Collect the appropriate dataset for detection of Chronic Kidney Disease.	10	High	Shalini S
Sprint-1	Data Pre-processing	USN-2	Transform the collected data into useful readable format through data pre-processing	10	High	Varsha Vigasini S
Sprint-2	Model Building	USN-3	Identifying the variations in the test reports of a diseased person and calculating the severeness of damage	10	Medium	Suruthy P
Sprint-2	Model Building	USN-4	Splitting the available dataset as training and testing datasets for the model	10	Medium	Akshaya K
Sprint-3	Training and Testing	USN-5	Training the model using classification algorithm and testing the performance of the model.	10	High	Pooja B
Sprint-3	Application Building	USN-6	Develop HTML code for user interface and Python code for connection of model	10	High	Suruthy P
Sprint-4	Application Building	USN-7	Running of Flask with connection of model to get the detection result from the model	10	Medium	Shalini S
Sprint-4	Implementation of Application	USN-8	Completion of Application and Deployment in IBM Cloud	10	Medium	Pooja B

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

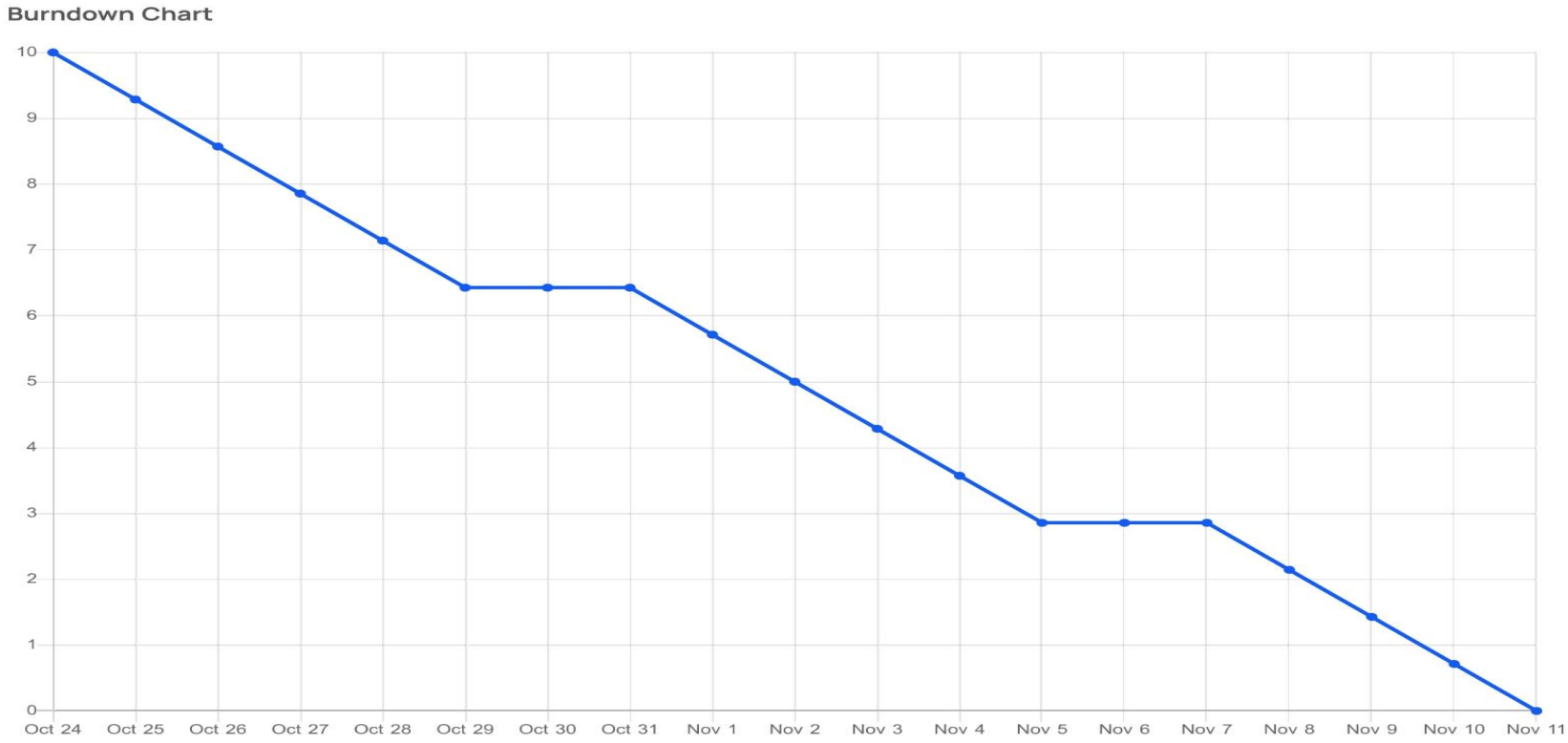
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	30 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	06 Nov 2022	11 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	12 Nov 2022	17 Nov 2022	20	19 Nov 2022

Velocity:
Imagine we have a 6-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)

$$AV = 20/6 = 3.33$$

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.t containing measurable progress over time.


Burndown Chart
10
9
8
7
6
5
4
3
2
1
0
Oct 24
Oct 25
Oct 26
Oct 27
Oct 28
Oct 29
Oct 30
Oct 31
Nov 1
Nov 2
Nov 3
Nov 4
Nov 5
Nov 6
Nov 7
Nov 8
Nov 9
Nov 10
Nov 11