Project Planning Phase

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

Team ID	PNT2022TMID38280
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

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	Download Food Nutrition Dataset	5	High	Dhanalakshmi S
Sprint–1	Data Preprocessing	USN–2	Importing The Dataset into Workspace	5	High	Jayachitra M
Sprint–1		USN–3	Handling Missing Data	5	High	Santhanalakshmi M
Sprint–1		USN–4	Feature Scaling	5	High	Anitha R
Sprint–1		USN–5	Data Visualization	4	Medium	Jayachitra M
Sprint–1		USN–6	Splitting Data into Train and Test	5	High	Santhanalakshmi M
Sprint–1		USN–7	Creating A Dataset with Sliding Windows	5	High	Anitha R
Sprint–2	Model Building	USN–8	Importing The Model Building Libraries	4	Medium	Dhanalakshmi S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-9	Initializing The Model	4	Medium	Santhanalakshmi M
Sprint-2		USN-10	Adding LSTM Layers	3	Low	Dhanalakshmi S
Sprint-2		USN-11	Adding Output Layers	3	Low	Anitha R
Sprint-2		USN-12	Configure The Learning Process	4	Medium	Jayachitra M
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-13	Train The Model	5	High	Anitha R
Sprint-2		USN-14	Model Evaluation	4	Medium	Santhanalakshmi M
Sprint-2		USN-15	Save The Model	5	High	Jayachitra M
Sprint-2		USN-16	Test The Model	4	Medium	Anitha R
Sprint-3	Application Building	USN-17	Create An HTML File	5	High	Dhanalakshmi S
Sprint-3		USN-18	Build Python Code	4	Medium	Jayachitra M
Sprint-3		USN-19	Run The App in Local Browser	5	High	Anitha R
Sprint-3		USN-20	Showcasing Prediction On UI	5	High	Dhanalakshmi S
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	3	Low	Santhanalakshmi M
Sprint-4		USN-22	Train The Model On IBM	8	High	Jayachitra M

| Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	Anitha R

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	28 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	04 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	11 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$
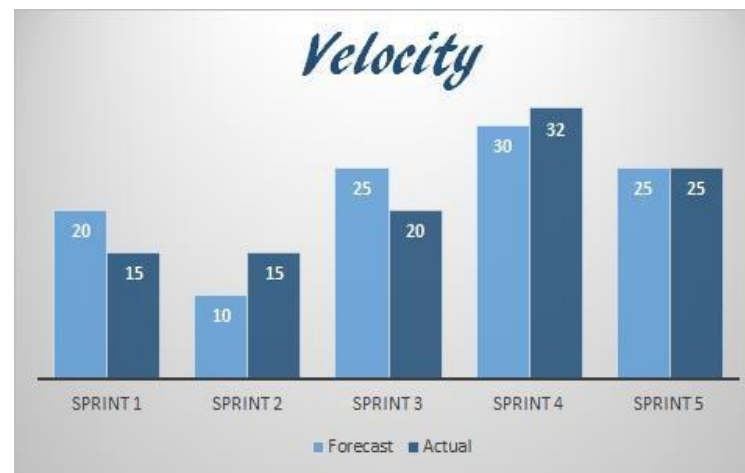
Burndown Chart:

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.