Project Planning Phase

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

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	Data Collection	USN-1	Download Food Nutrition Dataset	4	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-1	Image Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-1		USN-3	Handling Missing Data	3	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-1		USN-4	Feature Scaling	3	Low	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-1		USN-5	Data Visualization	4	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-1		USN-6	Spitting the Data into the Train and Test	4	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B

Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-2		USN-9	Initializing The Model	3	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-2		USN-10	Adding LSTM Layers	2	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-2		USN-11	Adding Output Layers	3	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B

Sprint-2		USN-12	Configure The Learning Process	2	Low	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-2		USN-13	Train The Model	2	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-2		USN-14	Model Evaluation	1	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-2		USN-15	Save The Model	2	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-2		USN-16	Test The Model	3	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA. B
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-3		USN-18	Build Python Code	4	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-3		USN-19	Creating our Flask application and loading our model by using load_model method	4	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-3		USN-20	Routing to HTML page	4	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B

Sprint-3		USN-21	Run the application	2	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	4	Medium	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-4		USN-22	Train The ML Model On IBM	8	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	OVIYA.B, KIRUTHIKA.D, PRITHA.R, SUWETHA.B

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

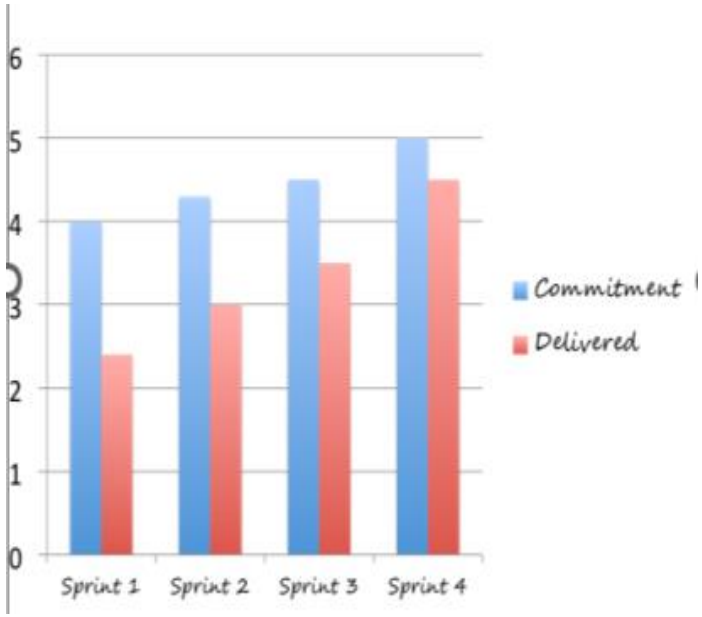
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	2 Nov 2022	2 Nov 2022	20	06 Nov 2022
Sprint-2	20	6 Days	08 Nov 2022	09 Nov 2022	20	10 Nov 2022
Sprint-3	20	6 Days	11 Nov 2022	12 Nov 2022	20	13 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 iteration unit (story points per day)

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

Velocity chart:



Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time.It is often used in agile software develpoment methodologies such as Scurm.However burndown charts can be applied to any project containing measurable progress over time.

An Approximate Workplan in Burndown