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

Project Planning Phase

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

Date	09NOV2022
Team ID	PNT2022TMID33550
Project Name	IOT based smart crop protection for Agriculture
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	CLARIFAI	USN-1	Sensors and wi-fi module with python code To create application in clarifai and run the python code	2	High	A.R.Manoj kumar R.Kavinkumar R.M.Sachin R.Logeshwar
Sprint-2	SOFTWARE	USN-2	IBM watson iot platform , workflows for iot scenarios using node-red	2	High	A.R.Manoj kumar R.Kavinkumar R.M.Sachin R.Logeshwar
Sprint-3	SOFTWARE	USN-3	Connecting iot device with object storage	2	high	A.R.Manoj kumar R.Kavinkumar R.M.Sachin R.Logeshwar
Sprint-4	WEB UI	USN-4	To make the user to interact with software	2	high	A.R.Manoj kumar R.Kavinkumar R.M.Sachin R.Logeshwar

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 Nov2022
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-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	14 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)

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

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used inagile software development methodologies such as Scrum. However, burn down charts can beapplied to any project containing measurable progress over time.