Project Planning Phase

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

Team ID	PNT2022TMID47318
Project Name	Project - Signs with smart connectivity for better road safety
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	IDE	USN-1	Installing all the softwares which are required like python IDE	2	Low	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-1	Resources	USN-2	Initialization Create and initialize accounts in various public APIs like Open Weather API.	5	Low	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-1		USN-3	Write a Python program that outputs results given the inputs like weather	13	Medium	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R

Sprint-2		USN-4	Checking the simulation with conditions and Coding.	5	Medium	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-2	Software	USN-5	Working with IBM Watson IOT and Node Red integration	2	High	Mohamed Farhan S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2			Test the above created IOT devices and workflow	13	High	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-3	Application Development	USN-6	Using MIT App Inventor create an App	13	Medium	Mohamed Farhan S, Sivasankara narayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-3			Integrate the MIT app with node-red	5	Medium	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-3			Testing the Application	2	Medium	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-4	Interface	USN-7	Displaying speed Limitations	2	Medium	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R

Sprint-4			Displaying traffic diversion Signs depending on the road conditions	5	Medium	Mohamed Farhan S, Sivasankaranarayanan D, Govarthana k, Sivaramakrishnan R, Sasidharan R
Sprint-4			Testing of the user interface with the software	13	Medium	Mohamed Farhan S,Sivsankaranarayanan D

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 Nov 2022
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	19 Nov 2022

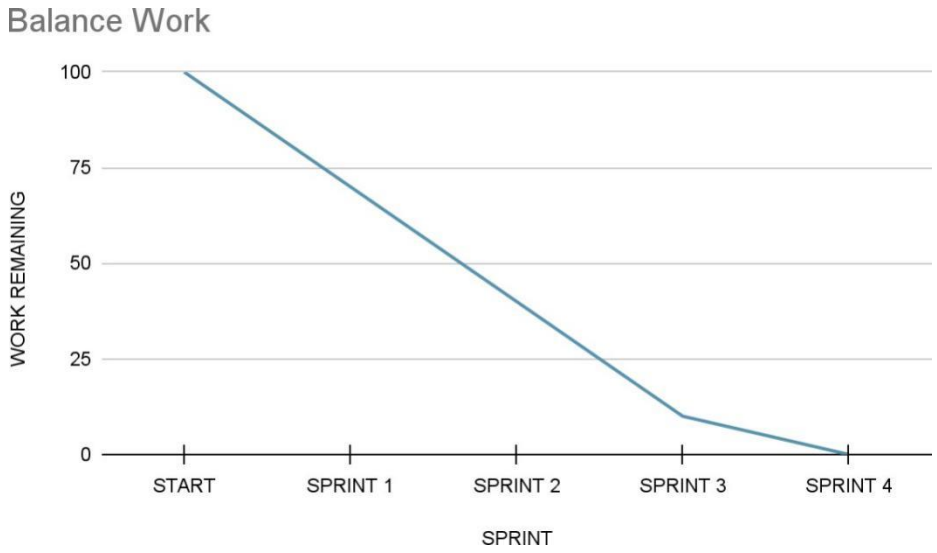
Velocity:

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 in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



Sprint 2 (example)

ibml
Software project

Back to project

Reports

Over ew

] Burnup report

Sprint burndown chart

Velocity report

Cumulative flow diaqram

Cycle time report

Deployment frequency report

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Sprint

IBM1 Sprint 2

Estimation field

Story points

Date — October 31st, 2022 — November Cth, 2022

Completed work
Number of story points completed this sprint

Guideline
Ideal burn rate

Work Scope
Number of story points to be completed this sprint