Project Planning Phase

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

Team ID	PNT2022TMID07704
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	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-1	Resources	USN-2	Initialization Create and initialize accounts in various public APIs like Open Weather API.	5	Low	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-1		USN-3	Write a Python program that outputs results given the inputs like weather	13	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-2		USN-4	Checking the simulation with conditions and Coding.	5	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Software	USN-5	Working with IBM Watson IOT and Node Red integration	2	High	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-2			Test the above created IOT devices and workflow	13	High	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-3	Application Development	USN-6	Using MIT App Inventor create an App	13	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-3			Integrate the MIT app with node-red	5	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-3			Testing the Application	2	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-4	Interface	USN-7	Displaying speed Limitations	2	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S

Sprint-4			Displaying traffic diversion Signs depending on the road conditions	5	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S
Sprint-4			Testing of the user interface with the software	13	Medium	Abirami V Priya N Rameshkumar M Arulkumar A Dharanidharan S

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	07 Nov 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	07 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	12 Nov 2022	20	19 Nov 2022

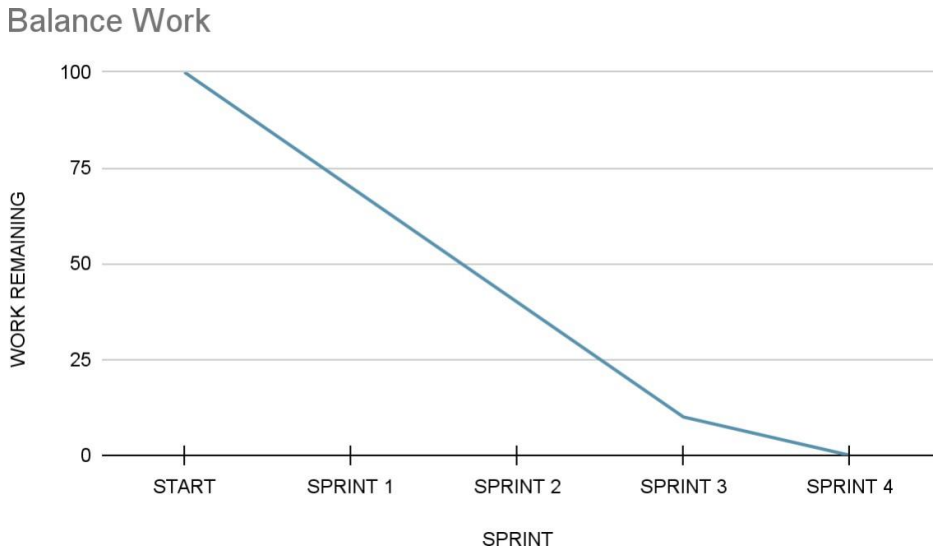
Velocity:

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)

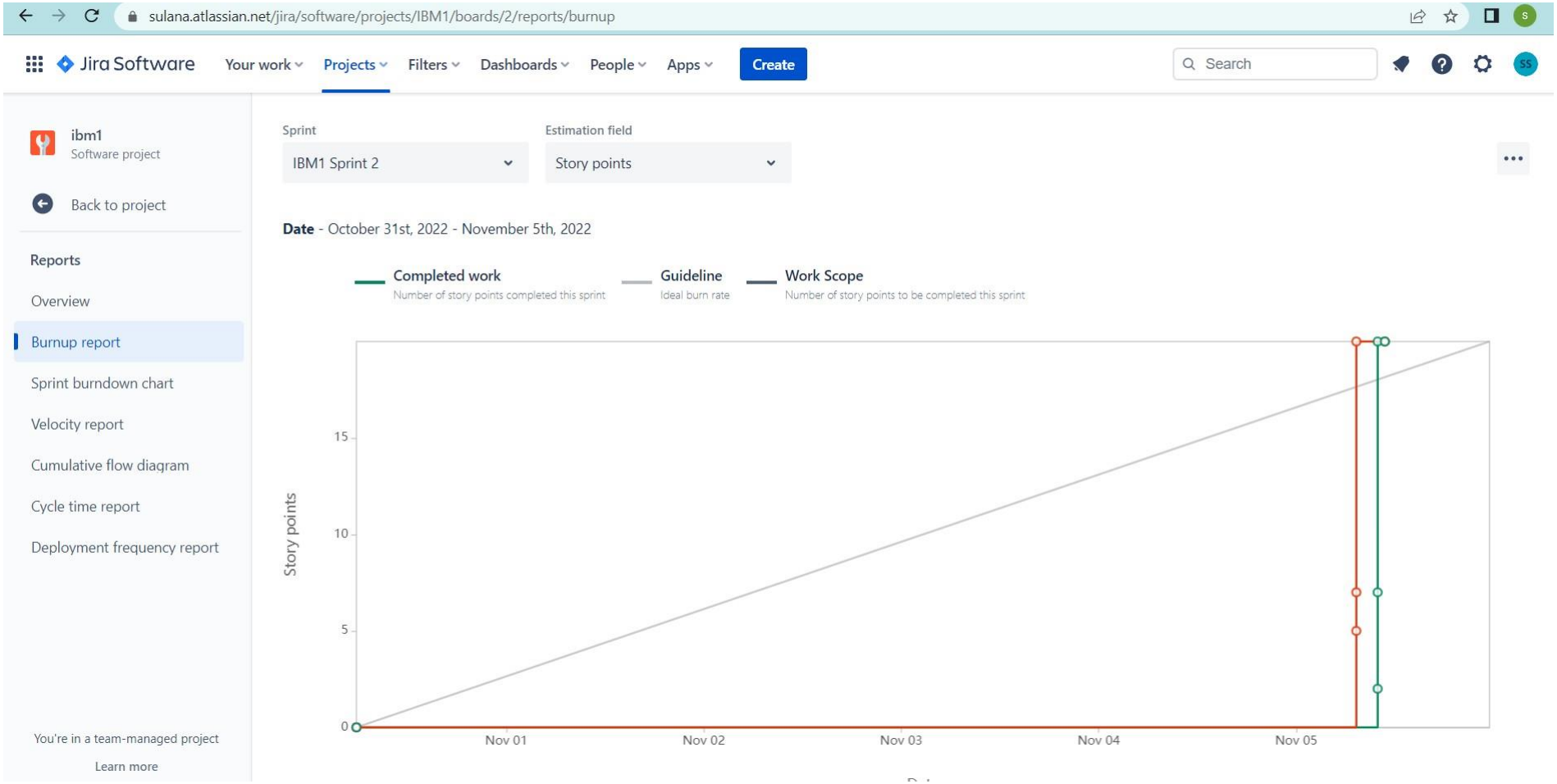
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

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)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Apps
Create
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Burnup report
Sprint burndown chart
Velocity report
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Sprint
IBM1 Sprint 2
Estimation field
Story points
Date - October 31st, 2022 - November 5th, 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
Story points
15
10
5
0
Nov 01
Nov 02
Nov 03
Nov 04
Nov 05