Project Planning Phase

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

Date	17 November 2022
Team ID	PNT2022TMID30858
Project Name	Car Resale value Prediction
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-3	Home Page	USN-1	Description about car resale process	2	Low	Dhandapani D Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-3	Registration/Login	USN-2	As a user, I can register for the application by entering my username, email, phone number, and password and verify it. As a user, I can log in to the web application by entering my Username &password.	5	Medium	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-3	Form Page	USN-3	As a user, I submit my car details.	5	Medium	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-3	Result	USN-4	The predicted resale price for the given car model will be displayed.	9	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C

Sprint-1	Data collection andData preprocessing	USN-5	Collect the required data and read the data.	6	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-1	Data collection andData preprocessing	USN-6	Clean and analyse the data to avoid duplications	9	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C

Sprint-1	Data collection andData preprocessing	USN-7	Split the data into Dependent and Independent variables	6	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-2	Model Building	USN-8	Build the model using a Random Forest regression to classify the data.	9	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-2	Model Building	USN-9	Check the metrics	7	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-2	Model Building	USN-10	Save the model	5	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-4	Deploy the model	USN-11	Deployment of ML model using IBM Watson Studio, object storage.	13	High	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C
Sprint-4	Integrate the webapp with the IBM model	USN-12	Use flask for the integrationpurpose.	8	Medium	Dhandapani Harshan AK Duraivenugopal R Dhanzil Rahman M Hari C

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

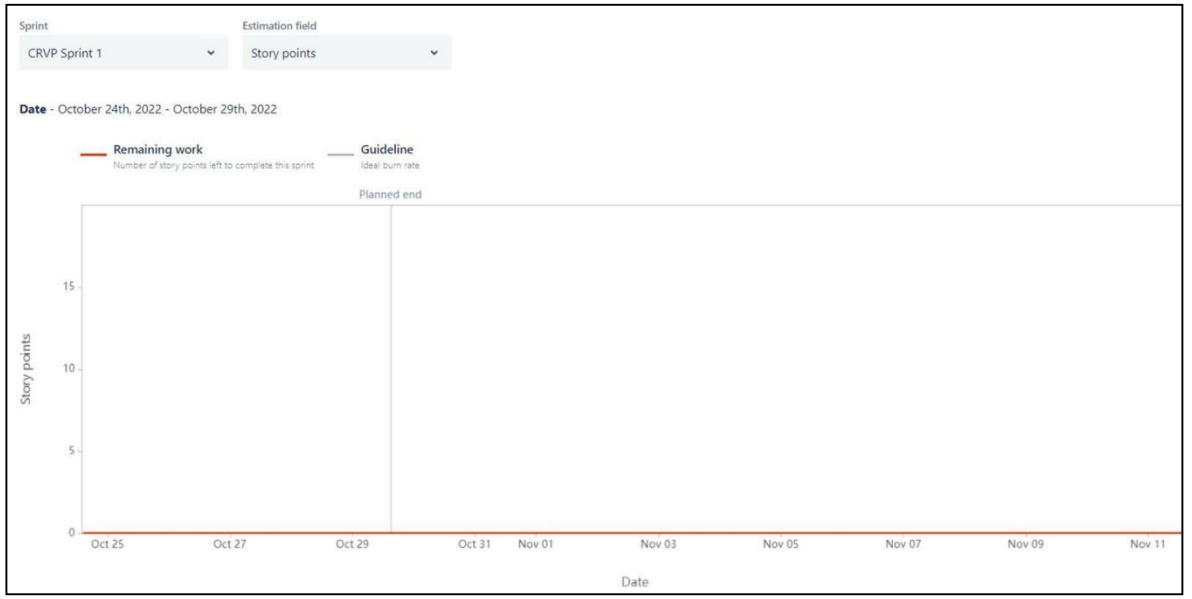
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	21	6 Days	24 Oct 2022	29 Oct 2022	21	29 Oct 2022
Sprint-2	21	6 Days	31 Oct 2022	05 Nov 2022	21	05 Nov 2022
Sprint-3	21	6 Days	07 Nov 2022	12 Nov 2022	21	12 Nov 2022
Sprint-4	21	6 Days	14 Nov 2022	19 Nov 2022	21	19 Nov 2022

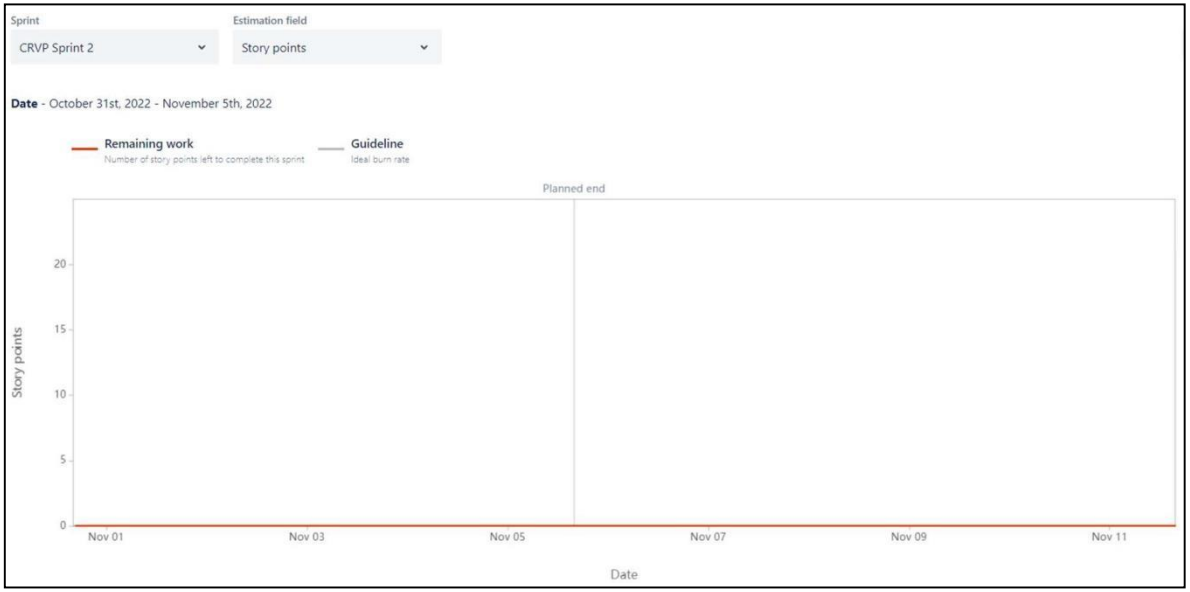
Velocity:

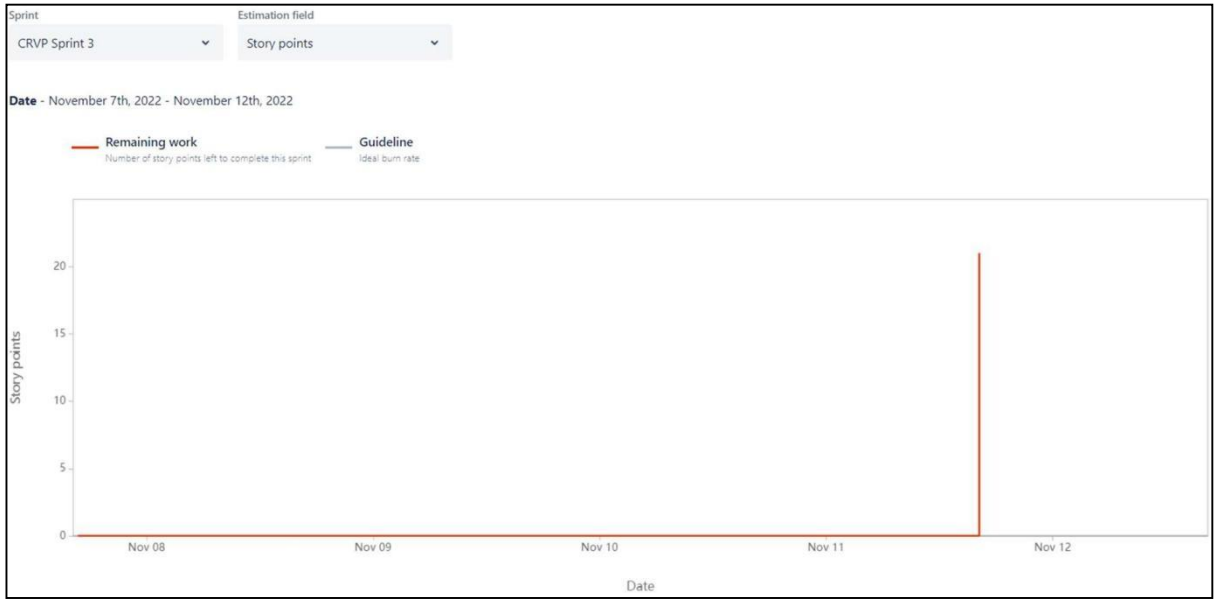
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

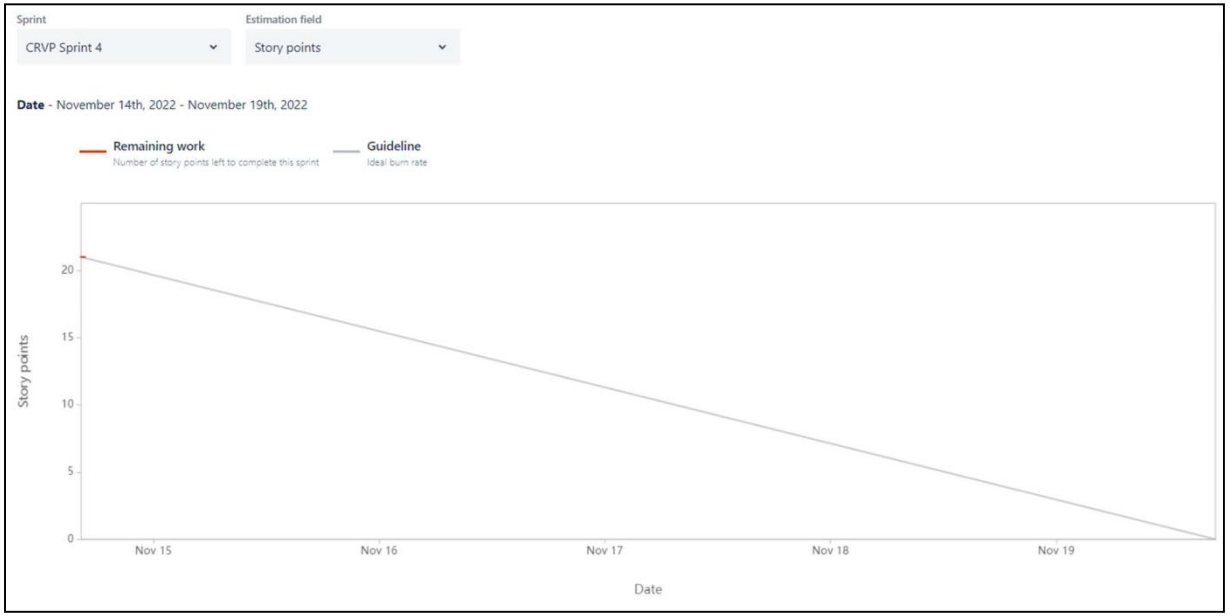
$$AV = \frac{sprint\ duration}{velocity} = \frac{\mathbf{21}}{\mathbf{6}} = \mathbf{3.5}$$

Burndown Chart:






Sprint
CRVP Sprint 3
Estimation field
Story points
Date - November 7th, 2022 - November 12th, 2022
Remaining work
Number of story points left to complete this sprint
Guideline
Ideal burn rate
Story points
20
15
10
5
0
Nov 08
Nov 09
Nov 10
Nov 11
Nov 12
Date


Sprint
CRVP Sprint 4
Estimation field
Story points
Date - November 14th, 2022 - November 19th, 2022
Remaining work
Number of story points left to complete this sprint
Guideline
Ideal burn rate
Story points
20
15
10
5
0
Nov 15
Nov 16
Nov 17
Nov 18
Nov 19
Date