Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID06174
Project Name	Project - Emerging Methods for Early Detection of Forest Fires
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	Collecting Dataset	USN-1	To create a model with great accuracy, we need to collect a huge dataset.	10	High	All Members
Sprint-1	Data Pre-processing	USN-2	The collected data can be uneven in size and in different formats. So data pre-processing is required	10	Medium	All Members
Sprint-1	Configuring required libraries	USN-3	Import and configure the Inage Data Generator Library and class	10	High	All Members
Sprint-1	Image Augmentation	USN-4	As a user, I can register for the application through Facebook	10	Medium	All Members
Sprint-2	Model Building	USN-5	Importing model building libraries and Initializing the model	10	High	All Members
Sprint-2		USN-6	Adding CNN layers and Dense layers	10	High	All Members
Sprint-2		USN-7	A part of the collected dataset is fed to the model for training and is repeated until we get a better accuracy	10	High	All Members

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Application Building	USN-8	Create Web Application using HTML, CSS, JavaScript	10	Medium	All Members
Sprint-3		USN-9	Build Python code	10	High	All Members
Sprint-3		USN-10	Run the Application	10	High	All Members
Sprint-4	Train the model on IBM	USN-11	Register for IBM Cloud	10	High	All Members
Sprint-4		USN-12	Train the Model and test the Model and its Overall Performance	10	High	All Members

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	10	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	10	19 Nov 2022

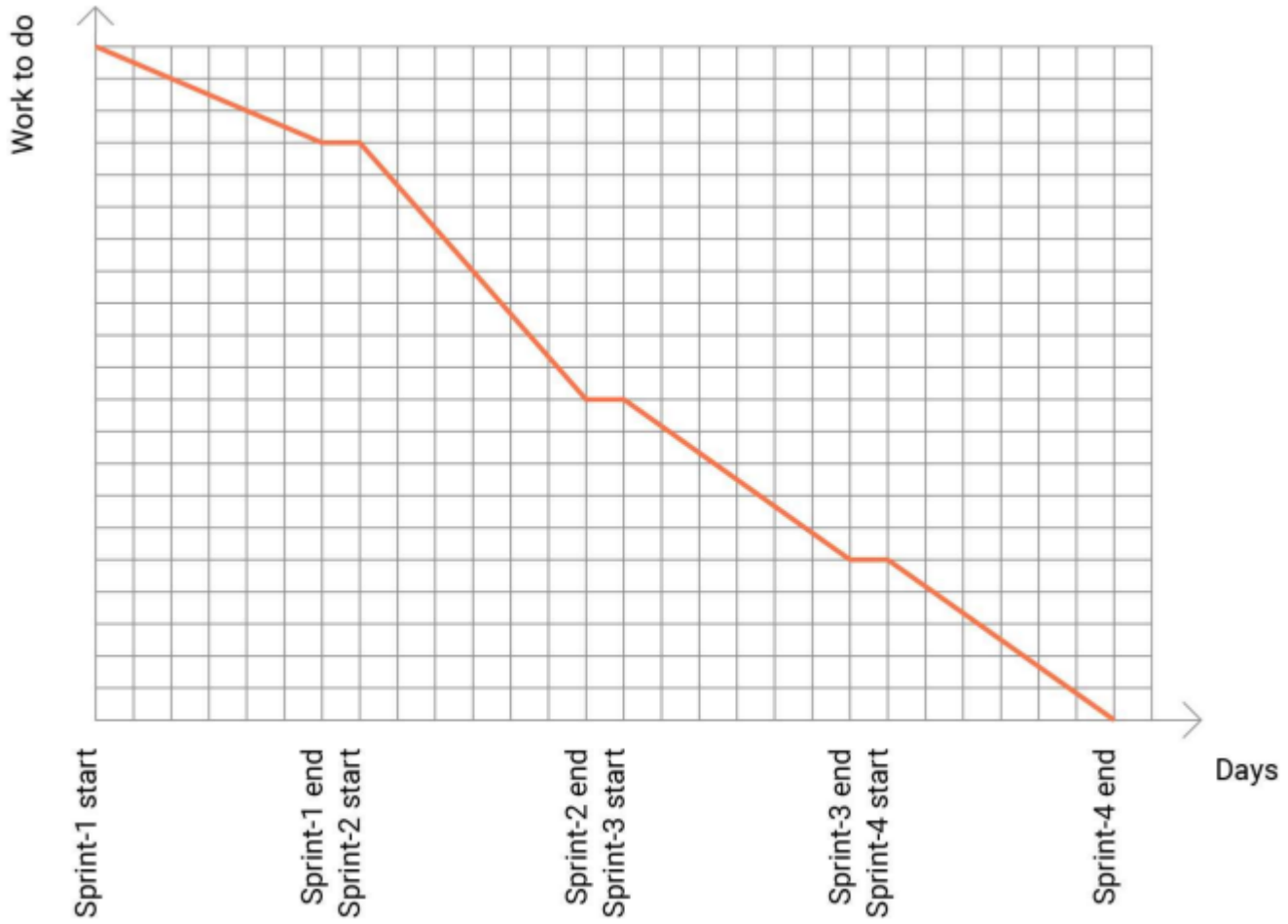
Velocity:
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

$$AV = 10/6 = 1.67$$

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.



https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts