Project Planning Phase

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

Date	1 November 2022
Team ID	PNT2022TMID46701
Project Name	Project - Trip Based Modelling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning
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	Pre-Process the data	USN-1	Data collection	5	Low	Nandhini J
Sprint-1		USN-2	Import Required Libraries	4	Low	Nandhini J Bavya S
Sprint-1		USN-3	Read the datasets	5	Medium	Nandhini J Suruthi S
Sprint-1		USN-4	Check Null values	2	Medium	Nandhini J Bavya S Pavitha P
Sprint-1		USN-5	Removing and Handling Null values	4	High	Nandhini J Suruthi S Bavya S Pavitha P
Sprint-2	Model Building	USN-6	Separate independent and dependent variables	5	Medium	Nandhini J Bavya S
Sprint-2		USN-7	Split data into train and test	6	Medium	Nandhini J Pavitha P
Sprint-2		USN-8	Apply multiple Linear Regression	6	High	Nandhini J Suruthi S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Application Building	USN-9	Build the python Flask	5	Medium	Nandhini J Pavitha P
Sprint-3		USN-10	Build an HTML page	5	High	Nandhini J Bavya S
Sprint-3		USN-11	Run the applicatiom	3	Low	Nandhini J
Sprint-4	Train the model on IBM	USN-12	Register for IBM cloud	5	High	Nandhini J
Sprint-4		USN-13	Train the ML model on IBM cloud	5	High	Nandhini J Bavya S
Sprint-4		USN-14	Integrate Flask with scoring end point	6	Medium	Nandhini J Pavitha P
Sprint-4		USN-15	As a user, I can get guidelines and suggestions to further reduce the fuel consumption	4	Medium	Nandhini J

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	17	
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	5	

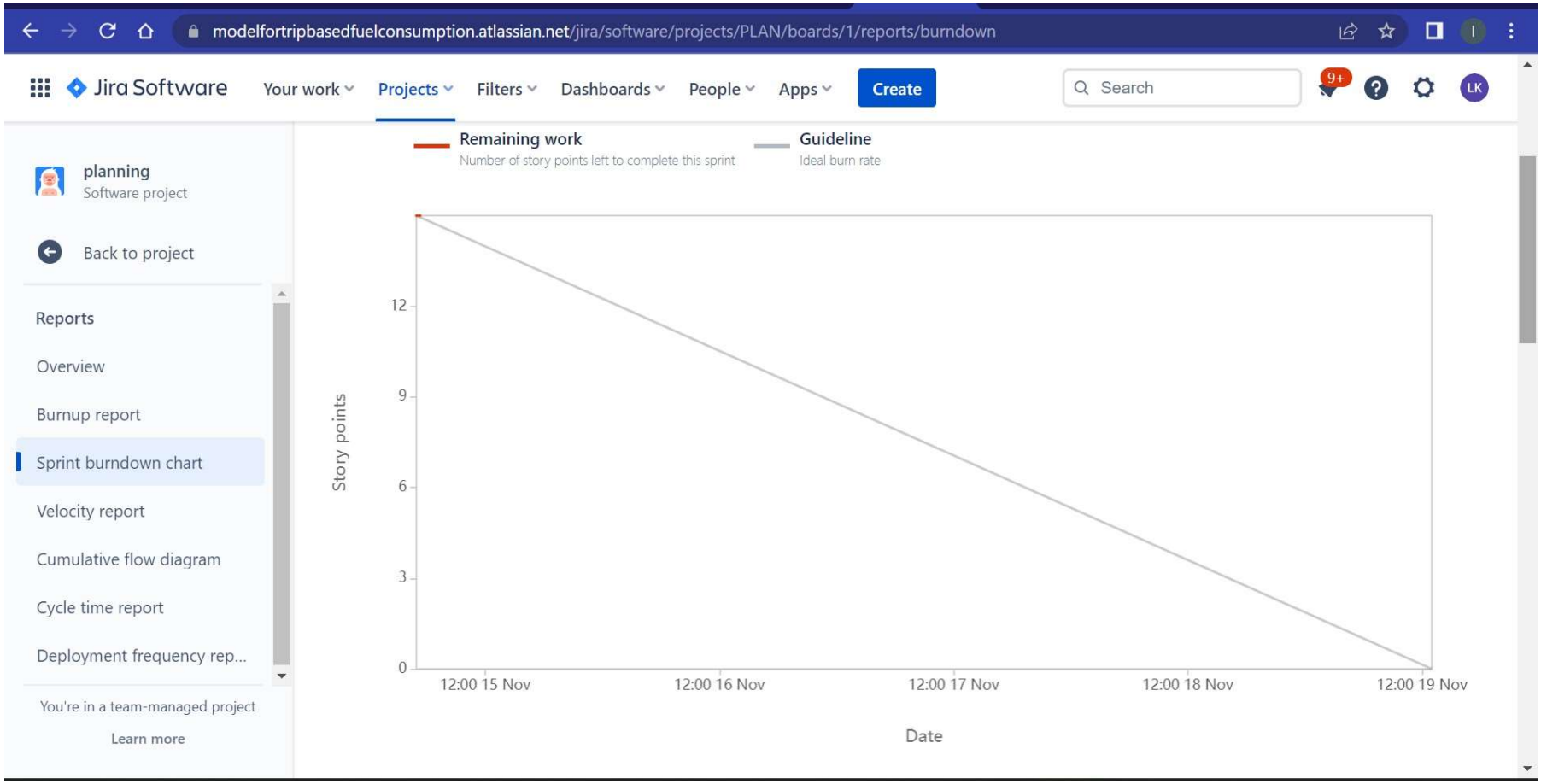
Velocity:
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

Sprint	Average Velocity
Sprint-1	3.33
Sprint-2	3.33
Sprint-3	3.33
Sprint-4	3.33

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

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.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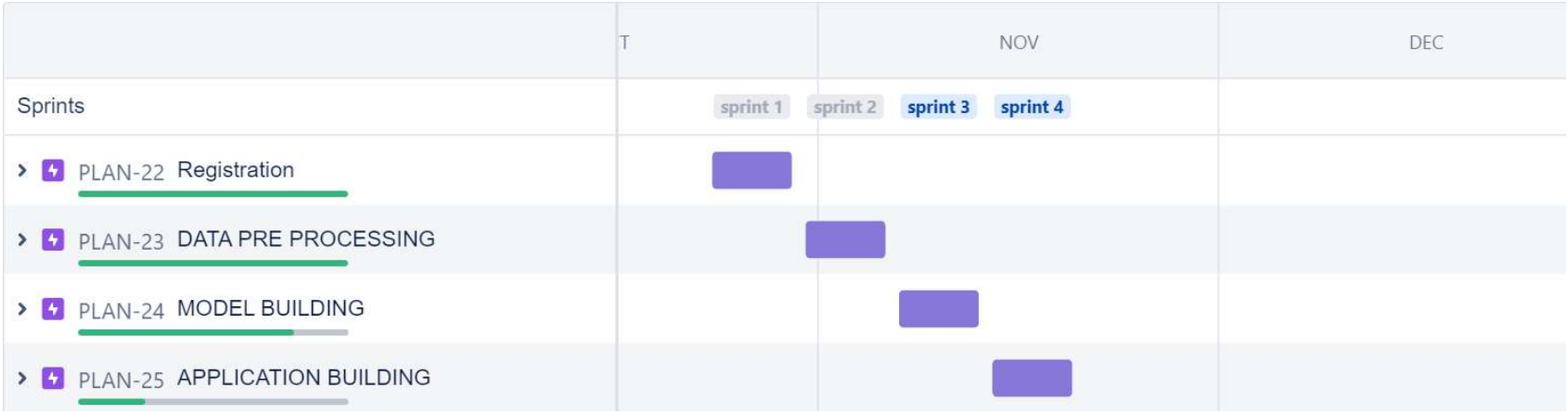
Jira Software
Your work
Projects
Filters
Dashboards
People
Apps
Create
Search
9+
LK
planning
Software project
Back to project
Reports
Overview
Burnup report
Sprint burndown chart
Velocity report
Cumulative flow diagram
Cycle time report
Deployment frequency rep...
You're in a team-managed project
Learn more
Remaining work
Number of story points left to complete this sprint
Guideline
Ideal burn rate
Story points
12
9
6
3
0
12:00 15 Nov
12:00 16 Nov
12:00 17 Nov
12:00 18 Nov
12:00 19 Nov
Date

Roadmap:


T
NOV
DEC
Sprints
sprint 1
sprint 2
sprint 3
sprint 4
PLAN-22 Registration
PLAN-23 DATA PRE PROCESSING
PLAN-24 MODEL BUILDING
PLAN-25 APPLICATION BUILDING