Project Planning Phase

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

Date	25-10-2023
Team ID	Team-593081
Project Name	Car Purchase Prediction Using ML
Maximum Marks	4 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	Project setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the CAR PURCHASE PREDICTION project.	1	High	Preetam
Sprint-1	development environment	USN-2	Gather a diverse dataset of images containing car purchase for training the deep learning model.	2	High	Purvaja
Sprint-2	Data collection	USN-3	Preprocess the collected dataset by removing null values and splitting it into training and validation sets.	2	High	Razzuq
Sprint-2	data preprocessing	USN-4	Explore and evaluate different classifiers and select the most suitable model for car purchase prediction	3	High	Purvaja
Sprint-3	model development	USN-5	Train the selected classifier model using the preprocessed dataset monitor its performance on the validation set.	4	High	Preetam
Sprint-3	Training	USN-6	Implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	6	medium	Razzuq
Sprint-4	model deployment & Integration	USN-7	Deploy the trained classifier web serviceto make it accessible for car purchase prediction. Integrate the model's API into a user-friendly web interface for users to input parameters and receive car purchase prediction results.	1	medium	Preetam
Sprint-5	Testing & quality assurance	USN-8	Conduct thorough testing of the model and web interface to identify and report any issues or bugs. Fine-tune the model hyperparameters and optimize its performance based on user feedback and testing results.	1	medium	Razzuq

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	3	3 Days	13 Oct 2023	15 Oct 2023	20	3 Oct 2023
Sprint-2	5	6 Days	16 Oct 2023	23 Oct 2023		
Sprint-3	10	4 Days	24 Oct 2023	27 Oct 2023		
Sprint-4	1	9 Days	28 Oct 2023	6 Nov 2023		
Sprint-5	1	3 Days	7 Nov 2023	9 Nov 2023		

Velocity:

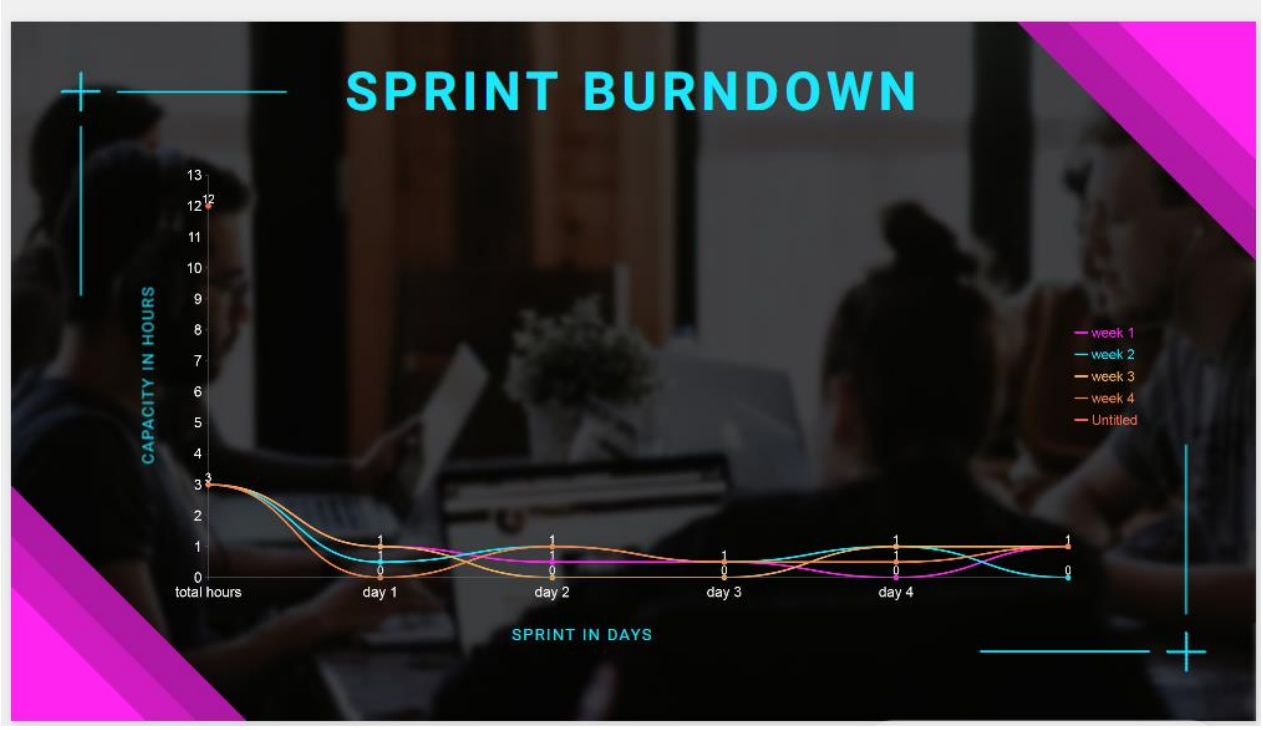
Imagine we have a 29-days sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

AV= 25/20 = 1.25

Burndown Chart:

	total hours	day 1	day 2	day 3	day 4	day 5
week 1	3	1	0.5	0.5	0	1
week 2	3	0.5	1	0.5	1	0
week 3	3	1	0	0	1	1
week 4	3	0	1	0.5	0.5	1
	12					



BOARD SECTION :

WE HAVE COMPLETED SPRINT 1 AND 2