

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:

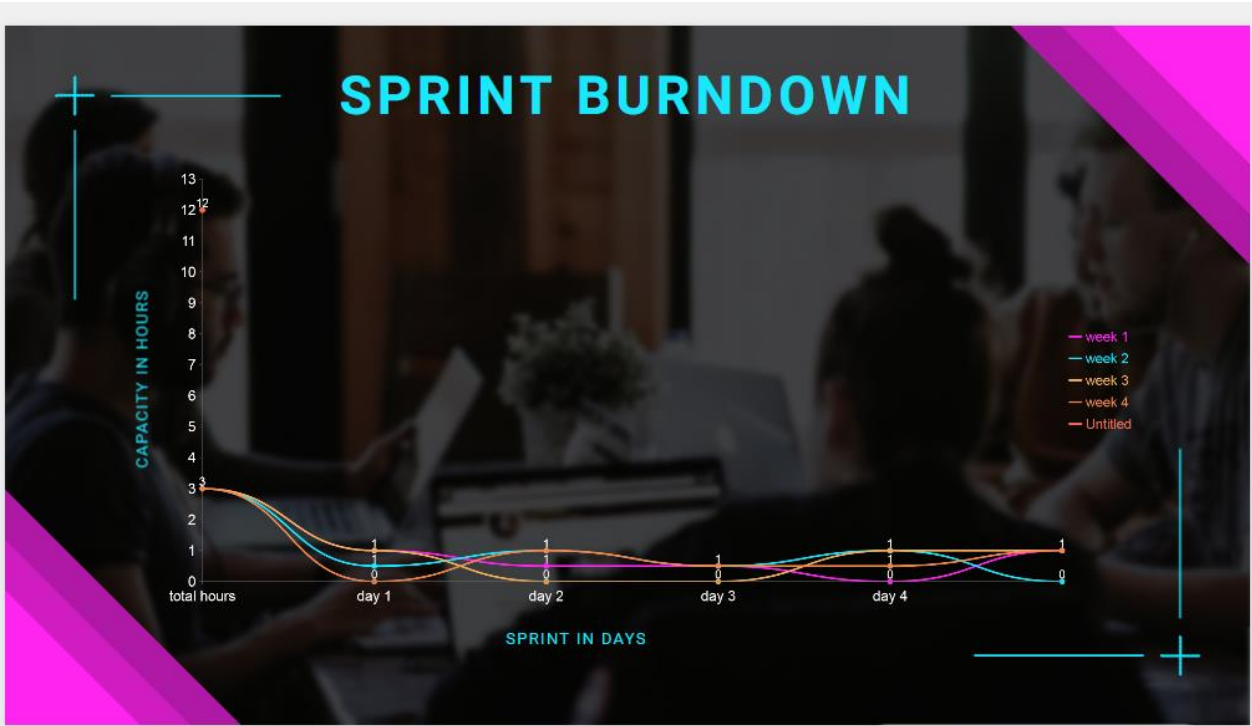
Imagine we have a 29-days sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

$AV= 25/20 = 1.25$

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

The screenshot shows a Kanban board interface with a purple header and background. The header includes the title "pending tasks" and navigation icons. The board is divided into three columns: "DONE", "DOING", and "TO DO".

- DONE Column:** Contains three cards: "IDEATION In this Ideation phase need to work on the Empathy Map and the Brainstroming Map which helps in understanding the project and the set solution requirements", "DESIGN PHASE In this project design phase we work on the Proposed solution, Solution Architecture & Determine the Requirements (Data Flow Diagram) as per the templates", and "SPRINT 1-Set up the development environment with the required tools and frameworks to start the CAR".
- DOING Column:** Contains two cards: "SPRINT 3 Implement data augmentation techniques (e.g., rotation, flipping)" and "SPRINT 4 Deploy the trained classifier web service to 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."
- TO DO Column:** Contains one card: "SPRINT 5 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." and a "PROJECT DOCUMENTATION" card.

Each column has a "+ Add a card" button at the bottom. The board also features a "Filters" button in the top right corner.