# **Project Planning Phase**

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

Date	28 October 2022
Team ID	Team-592512
Project Name	Project - Image Caption Generation
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)  Virtual Environment Creation  User Story Number  User Story / Task Set up Virtual Environment and Install required Libraries		Story Points	Priority	Team Members	
Sprint-1			-	1	High	Surya R T
Sprint-1	Version Control	USN-2	Install Git and other required tools (Frame Work)	1	Medium	Surya R T
Sprint-2	Data Collection	USN-3	Collect Images and related Caption required for training the model	2	High	Kavin R
Sprint-2	Data Preprocessing	USN-4	Process the Images and make it a suitable format for training the model.	2	High	Kavin R
Sprint-3	Model Selection	USN-5	Choose the Appropriate Architecture like VGG 16 or CNN for extracting features and LSTM for Caption Generation	5	High	Shreeharan K
Sprint-3	Model Development	USN-6	Train the selected model with the preprocessed data and Monitor its performance	3	High	Surya R T
Sprint-3	Robust and Accuracy	USN-7	Use Augmentation to get more related images and train the model.	5	Medium	Shreeharan K
Sprint-4	Model Deployment & Integration	USN-8	Deploy the trained image caption generation model as an API or web service to allow users to submit images and receive generated captions.	4	Medium	Shreeharan K
Sprint-5	Testing	USN-9	Test the deployed model and website and identify issues.	1	Low	Shreeharan K

### **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	2	1 Days	26 Oct 2023	26 Oct 2023	20	
Sprint-2	4	1 Days	27 Oct 2023	27 Oct 2023	20	
Sprint-3	12	5 Days	28 Oct 2023	1 Nov 2023	20	
Sprint-4	4	2 Days	02 Nov 2023	03 Nov 2023	20	
Sprint-5	1	1 Days	04 Nov 2022	04 Nov 2022	20	

### 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)

V1(Sprint 1) = 1 / 2 = 0.50

V2 (Sprint 2) = 1 / 4 = 0.25

V3 (Sprint 3) = 5 / 12 = 0.41

V4 (Sprint 4) = 2 / 4 = 0.50

V5 (Sprint 5) = 1 / 1 = 1

Total Sprint Duration= 10 days

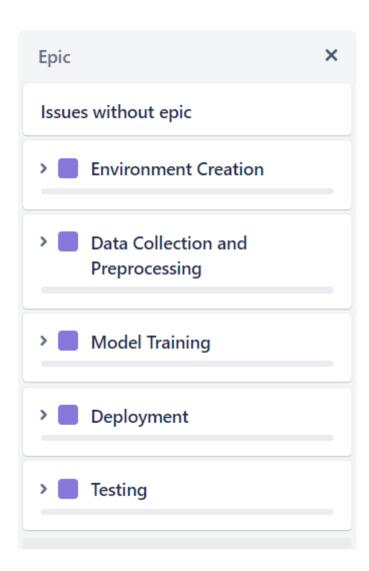
Total Velocity = 23 points

Average Velocity (AV) = Sprint Duration / Velocity = (1+1+5+2+1)/(2+4+12+4+1) = 0.43

#### **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.





OCT							OCT							NOV							NOV		
19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	1
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