

## Project Planning Phase

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

Date	3rd Nov 2023
Team ID	PNT2022TMIDxxxxxx
Project Name	Dog Breed Identification Using Transfer 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	Registration	USN-1	Data Collection and Preprocessing- Gather a diverse dataset of labeled dog images containing a wide range of dog breeds.	2	High	
Sprint-1		USN-2	Choose a Pretrained Model- Select a pre-trained deep learning model, such as VGG16, ResNet, or Inception, that has been trained on a large dataset (e.g., ImageNet). This model will serve as the feature extractor.	1	High	
Sprint-2		USN-3	Transfer Learning- Load the selected pre-trained model and remove its top layers (fully connected layers). Training- Train the model using the preprocessed dataset with the defined architecture.	2	Low	
Sprint-1		USN-4	Model Evaluation, Fine-Tuning and Optimization, Deployment	2	Medium	

Sprint-1	Login	USN-5	testing and Validation Documentation and Maintenance- Document the entire project, including data sources, model architecture, and deployment instructions.	1	High	
	Dashboard					

**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 2023	29 Oct 2023	20	29 Oct 2023
Sprint-2	20	6 Days	31 Oct 2023	05 Nov 2023		
Sprint-3	20	6 Days	07 Nov 2023	12 Nov 2023		
Sprint-4	20	6 Days	14 Nov 2023	19 Nov 2023		

**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)

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

### **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.

<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>