

Project Planning Phase

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

Date	25 th June 2025
Team ID	LTVIP2025TMID34982
Project Name	Smart Sorting using transfer learning
Maximum Marks	5 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	Dataset Setup & Preprocessing	USN-1	As a team, we will download, unzip, and organize the dataset into train/test folders.	2	High	
Sprint-1	Visualization	USN-2	As a user, I want to visualize the classes and sample images to understand the data.	2	High	
Sprint-1	Model Design	USN-3	As a user, I want to use transfer learning (VGG16) to build an image classification model.	3	High	
Sprint-1	Data Augmentation	USN-4	As a user, I want to apply data augmentation to improve model generalization.	2	Medium	
Sprint-2	Training the Model	USN-5	As a user, I want to train the model and save it as an .h5 file.	3	High	
Sprint-2	Flask App	USN-6	As a user, I want to upload an image and get predictions using a web interface.	3	High	
Sprint-3	UI/UX Enhancement	USN-7	As a user, I want the app interface to be clean, user-friendly, and responsive.	2	Medium	

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Testing Predictions	USN-8	As a user, I will test with real-world images from the internet or camera.	2	Medium	
Sprint-4	Evaluation Metrics	USN-9	As a user, I want to generate confusion matrix, accuracy, MAE, and MSE.	3	Medium	
Sprint-4	Documentation	USN-10	As a user, I want to document my project and upload it to GitHub.	2	High	

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	4 Days	15 June 2025	18 June 2025	20	18 June 2025
Sprint-2	20	4 Days	19 June 2025	20 June 2025	18	20 June 2025
Sprint-3	20	4 Days	23 June 2025	23 June 2025	19	23 June 2025
Sprint-4	20	4 Days	27 June 2025	30 June 2025	20	30 June 2025

Velocity:

Velocity (AV) = Total story Points / Sprint Duration

= 20/6

= 3.33 Story points/day