

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID11500
Project Name	A Novel Method for Handwritten Digit Recognition System
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	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	Hemapriya, Chandra
Sprint-1	Login	USN-2	As a user, I can log into the application by entering email & password.	10	High	Nandhini, Hemapriya
Sprint-1	Data Collection & Pre-processing	USN-3	As a user, I can upload any kind of image with the pre-processing step is involved in it.	10	High	Karthiga mai, Hemapriya
Sprint-2	Upload input Image	USN-4	As a user, I can able to input the images of digital documents, handwritten documents or images to the application.	8	Medium	Bhuvaneshwari, Chandra
Sprint-2	Building the ML model	USN-5	As a user, I will get an application with ML model which provides high accuracy of recognized handwritten digit.	9	High	Hemapriya, Karthiga mai
Sprint-2		USN-6	As a user, I can pass the handwritten digit image for recognizing the digit.	5	Medium	Nandhini, Karthiga mai
Sprint-3	Building the UI Application	USN-7	As a user, I will upload the handwritten digit image to the application by clicking an upload button.	8	Medium	Bhuvaneshwari, Hemapriya
Sprint-3		USN-8	As a user, I can know the details of the fundamental usage of the application.	2	Low	Chandra, Nandhini
Sprint-3		USN-9	As a user, I can see the predicted / recognized digits in the application.	10	High	Hemapriya, Nandhini
Sprint-4	Train and deploy the model in IBM Cloud	USN-10	As a user, I can access the web application and make the use of the product from anywhere.	20	High	Chandra, Hemapriya
Sprint-4	Recognize the digit	USN-11	As a user I can able to get the recognised digit as output from the images of digital documents or images.	10	Medium	Karthiga mai, Bhuvaneshwari

### 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 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

#### Velocity:

Imagine we have a 6-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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{6} = 3.33$$

#### 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.

