Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID18443
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	Data Pre-processing	USN-1	Collect and load the dataset, scaling and wrangling the data and split into train and test data.	20	Medium	Nithiyashree M G, Rizwana S
Sprint-2	Model Building	USN-2	Build a Deep Learning Model with CNN to recognize the handwritten digit with higher accuracy.	10	High	Nithiyashree M G, Sharmila S
Sprint-2		USN-3	Training and testing the model with the split image dataset and refine the accuracy.	5	Medium	Rizwana S, Vijayadharshini S
Sprint-2		USN-4	Model saved and used for further integration with the Flask web user interface.	5	Medium	Sharmila S, Vijayadharshini S
Sprint-3	UI Application	USN-5	Building a flask web application interface to upload the handwritten image by clicking the upload button	5	Medium	Rizwana S, Vijayadharshini S
Sprint-3		USN-6	Integrating the flask web application with the saved deep learning model	10	High	Nithiyashree M G, Sharmila S
Sprint-3		USN-7	As a user, I can see the predicted digits with the accuracy, in the web application	5	Medium	Sharmila S, Vijayadharshini S
Sprint-4	Train the model on IBM	USN-8	Training the model on IBM Cloud and deploy the Flask web application with scoring end point.	20	High	Nithiyashree M G, Rizwana S

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 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)

$$Average\ Velocity = \frac{Sprint\ Duration}{Velocity} = \frac{20}{6} = 3.33$$

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.

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