

Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID27836
Project Name	Project – Detecting Parkinson’s Disease Using Machine Learning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Release	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.	6	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-1	Confirmation	USN-2	As a user, I can receive the confirmation through my Email.	6	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-1	Data Input	USN-3	As a user, the data can be fed as input to the application and verify it's authenticity	6	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-1	Login	USN-4	As a user, I can login using the email and password.	8	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-2	Dashboard	USN-5	As a user, I can upload images of spiral and wave to the website in order to receive a diagnosis.	6	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-4	Model Building	USN-6	I need to build the model using Random Forest Classifier for spiral images and K Nearest Neighbor (KNN) for wave images.	10	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-4	Model Deployment	USN-7	I need to deploy the Machine Learning model that was built.	6	Medium	Prabhakaran.M, Prashanth Baskar,

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						Paavarasan.S, M.S.Subha Madhav
Sprint-3	Checking Accuracy	USN-8	As a user, I can check the ability and accuracy of the model in it's predicting capabilities	6	Low	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-2	Checking Result	USN-9	As a user, the results of the prediction can be seen.	10	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-4	Medical Assistance	USN-10	As a user, I can receive Medical advice In order to take proper Treatment.	6	Medium	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-2	Work flow	USN-11	As a user, the working of the model can be viewed.	6	Medium	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav
Sprint-1	Image Classification	USN-12	As a user, I can verify that the image is identified with the actual disease with the help of the trained and tested data	6	High	Prabhakaran.M, Prashanth Baskar, Paavarasan.S, M.S.Subha Madhav

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

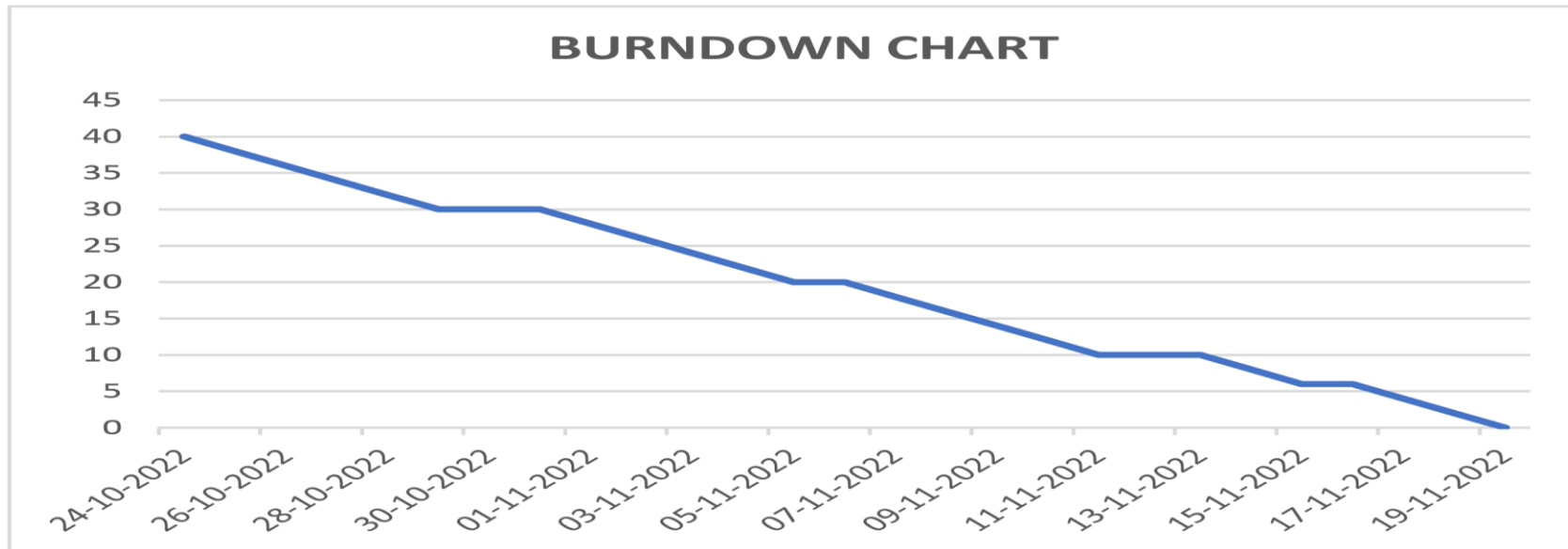
Velocity:

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)

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

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>