

Project Planning Phase

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

Date	07 November 2022
Team ID	PNT2022TMID53604
Project Name	Detecting Parkinson's Disease using Machine Learning
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Upload Images	USN-1	As a user, I can upload the images in the website in order to obtain the prediction result of Parkinson's disease	2	High	Keerthana M Krishnapriya S Maheeraj J F Mannoj A
Sprint-4	Test Vital	USN-2	As a user, I will get the prediction result and accuracy on the test vital page.	2	High	Keerthana M Krishnapriya S Maheeraj J F Mannoj A
Sprint-2	Dashboard	USN-3	Dashboard displays the symptoms, causes and medications for the Parkinson disease	2	Low	Keerthana M Krishnapriya S Maheeraj J F Mannoj A
Sprint-1	Data Collection	USN-4	As an Administrator, I need to collect data (images of spirals and waves drawn by healthy people and Parkinson's patients).	2	High	Keerthana M Krishnapriya S Maheeraj J F Mannoj A
Sprint-1	Data Pre-Processing	USN-5	As an Administrator, I should clean my data and prepare it for model building by doing pre-processing activities such as resizing, visualizing the dataset and converting from RGB to grayscale	2	High	Keerthana M Krishnapriya S Maheeraj J F Mannoj A
Sprint-2	Model Building	USN-6	As an Administrator, I need to build the model using Random Forest Classifier for spiral images and Convolutional Neural Networks (CNN) for wave images.	3	High	Keerthana M Krishnapriya S Maheeraj J F Mannoj A
Sprint-3	Deployment of model	USN-7	As an Administrator, I need to deploy the Machine Learning model that was built.	2	Medium	Keerthana M Krishnapriya S Maheeraj J F Mannoj A

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	10 November 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	12 November 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	15 November 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	18 November 2022

VELOCITY:

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

Sprint1->AV=sprint duration/velocity=10/6=1.667

Sprint2->AV=sprint duration/velocity=20/6=3.333

Sprint3->AV=sprint duration/velocity=20/6=3.333

Sprint4->AV=sprint duration/velocity=20/6=3.333

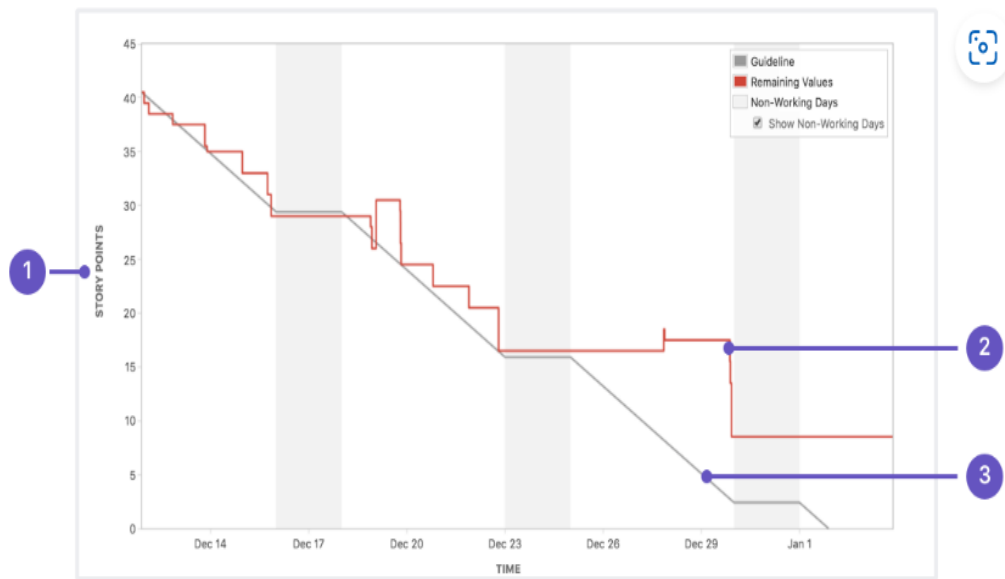
BURNDOWN CHART:

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. It also shows the amount of work that has been completed in an epic or sprint, and the total work remaining. Burndown charts are used to predict your team's likelihood of completing their work in the time available. They're also great for keeping the team aware of any scope creep that occurs.

Burndown charts are useful because they provide insight into how the team works.

For example:

- If you notice that the team consistently finishes work early, this might be a sign that they aren't committing to enough work during sprint planning.
- If they consistently miss their forecast, this might be a sign that they've committed to too much work.
- If the burndown chart shows a sharp drop during the sprint, this might be a sign that work has not been estimated accurately, or broken down properly.



Estimation statistic: The vertical axis represents the estimation statistic that is selected.

Remaining values: The red line represents the total amount of work left in the sprint, according to the team's estimates.

Guideline: The grey line shows an approximation of where the team should be, assuming linear progress. If the red line is below this line, congratulations - team is on track to completing all their work by the end of the sprint. This isn't fool proof though; it's just another piece of information to use while monitoring team progress.

Epic burndown chart:

This report shows how the team is progressing against the work for an epic. It's optimized for Scrum teams who work in sprints and makes tracking easier. Here are some of the ways that you could use an epic burndown chart:

- See how quickly the team is working through the epic.
- See how work added/removed during the sprint has affected the team's overall progress.
- Predict how many sprints it will take to complete the work for an epic, based on past sprints and changes during the sprints.