

Project Planning Phase

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

Date	18 November 2022
Team ID	PNT2022TMID36166
Project Name	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
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	Download The Dataset	USN-1	User Interacts with user interface to upload Image	1	High	D.Joshualravel
Sprint-1	Import The Image Data Generator Library	USN-2	Upload image is analyzed by the model which is integrated	1	Low	S.Mahalakshmi
Sprint-2	Configure Image Data Generator class	USN-3	Once model analysis the uploaded image the prediction is show cased on the U1	1	Medium	A.Rubavathi
Sprint-2	Apply the Image Data Generator functionality to Train Set and Dataset	USN-4	The image data generator accepts the original data, randomly Transforms it and returns only the new transform the data	1	Low	R.ManojKumar
Sprint-3	Import Libraries	USN-5	A U1 is provided for user where he has uploaded an image	1	High	D.Joshualravel

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Initialize the Model	USN-6	The uploaded images is given to the saved model and prediction is showcased on the U1	1	High	S.Mahalakshmi
Sprint-4	Adding CNN layer	USN-7	Upload the image and click on the predict button to view the result on the "base.html" page on the local host	1	Low	D.Joshualravel
Sprint-4	Adding Dense Layer	USN-8	Upload an image and see the predicted result	1	Medium	S.Mahalakshmi

Project Tracker, Velocity & Burn down 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)

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

Average Velocity = Story Points per Day

Sprint Duration = Number of (Duration) days per Sprint

Velocity = Points per Sprint

$$AV = \frac{20}{6} \approx 4$$

Therefore, the **AVERAGE VELOCITY IS 4 POINTS PER SPRINT**

Burn down Chart:

