

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18 October 2022
Team ID	PNT2022TMID35734
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)

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.	6	High	Ponlibarnaa
Sprint-1	Email Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	2	Medium	Keerthana
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	6	High	Priyadharshini
Sprint-1	Dashboard	USN-4	As a user, based on my requirement I can navigate through the dashboard.	2	Low	Katherine
Sprint-1	Pre-process the Dataset	USN-5	The image dataset is pre-processed.	4	Medium	Katherine Priyadharshini

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Upload images and display output page	USN-6	As a user, I should be able to upload the image of ECG and get the output.	6	High	Ponlibarnaa
Sprint-2	Train the pre-trained model	USN-7	The pre-trained models Inception, ResNet and AlexNet are trained on the pre-processed dataset.	6	High	Keerthana Katherine
Sprint-2	Build Python code	USN-8	Build the flask file 'app.py' which is a web framework written in python for server-side scripting.	8	High	Priyadharshini
Sprint-3	Train custom CNN model	USN-9	Train the model with the image dataset. fit_generator functions are used to train a deep learning neural network	10	High	Keerthana Ponlibarnaa Katherine Priyadharshini
Sprint-3	Test the models	USN-10	Test the model through Loaded necessary libraries, model is evaluated for accurate results.	10	Medium	Keerthana Ponlibarnaa Katherine Priyadharshini
Sprint-4	Register in IBM Cloud	USN-11	Register in IBM Cloud	10	Medium	Keerthana Ponlibarnaa Katherine Priyadharshini
Sprint-4	Train the model on IBM	USN-12	Train the model on IBM	10	High	Keerthana Ponlibarnaa Katherine Priyadharshini

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. The team's average velocity (AV) per iteration unit (story points per day) is

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

Average Velocity (AV) = 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

Burndown Chart:

A burndown chart shows the amount of work that has been completed in an epic or sprint, and the total work remaining.

