Project Planning Phase

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

Date	12 November 2022
Team ID	PNT2022TMID01315
Project Name	Project – 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	Here the data set provided is downloaded which contains six classes.	5	High	Likitha
Sprint-1	Image Pre-processing	USN-2	This module consists of importing, configuring, and applying the image data generator.	5	Medium	Abirami
Sprint-2	Import the model building Libraries	USN-3	Here we import the necessary libraries	2	Medium	Jayasree
Sprint-2	Initializing the model	USN-4	Initializing the Image recognition model	2	Medium	Bharathi
Sprint-2	Adding CNN Layers	USN-5	We can add Convolutional Neural Network used for image/object recognition and classification.	2	Low	Likitha
Sprint-2	Adding Hidden Layer	USN-6	We add Hidden layers to allow the function to be broken into specific transformations of data.	2	Medium	Jayasree
Sprint-2	Adding Output Layer	USN-7	An output layer is added where desired predictions are obtained.	2	Medium	Abirami

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Configure the Learning Process	USN-8	Configuring improves the network's performance or trining time.	2	Medium	Likitha
Sprint-2	Training and testing the model	USN-9	Training is done using our image dataset.	4	High	Bharathi
Sprint-2	Saving the model	USN-10	We can save the model using the .h5 extension	4	High	Likitha
Sprint-3	Create HTML files	USN-11	We use HTML to design the front-end part of the webpage.	4	High	Jayasree
Sprint-3	Build python files	USN-12	We build a flask file which is written for server-side scripting.	4	High	Bharathi
Sprint-3	Run the app	USN-13	Running the application	2	High	Abirami
Sprint-4	Register for IBM Cloud	USN-14	We register on IBM cloud platform.	5	Medium	Jayasree
Sprint-4	Train the model on IBM,	USN-15	Training the model on IBM using IBM Watson.	5	Medium	Abirami

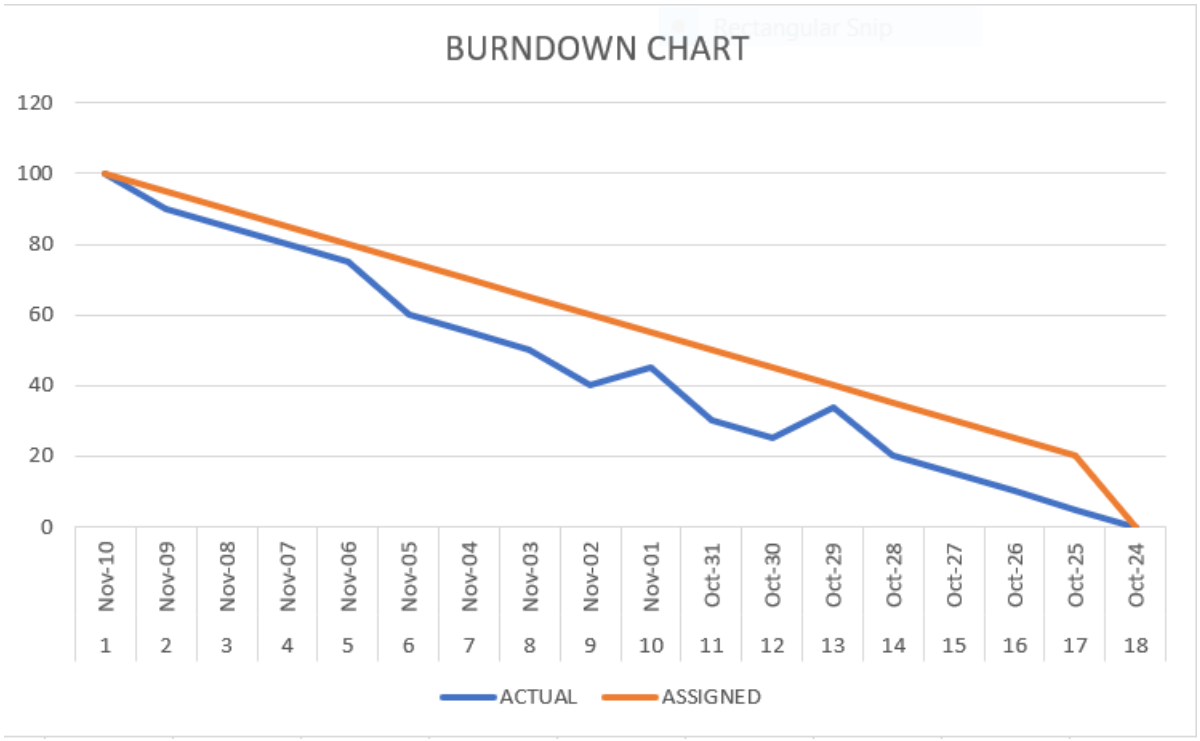
Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	10	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	10	6 Days	14 Nov 2022	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)

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

BURNDOWN CHART


BURNDOWN CHART
120
100
80
60
40
20
0
Nov-10
Nov-09
Nov-08
Nov-07
Nov-06
Nov-05
Nov-04
Nov-03
Nov-02
Nov-01
Oct-31
Oct-30
Oct-29
Oct-28
Oct-27
Oct-26
Oct-25
Oct-24
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
ACTUAL
ASSIGNED