**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.JoshuaIravel |
| 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.JoshuaIsravel |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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.JoshuaIravel |
| 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)



Average Velocity = Story Points per Day

Sprint Duration = Number of (Duration) days per Sprint

Velocity = Points per Sprint

AV =

𝟐𝟎 **≈ 4**

𝟔

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

Burn down Chart:

