**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID02786 |
| 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 | Dataset collection | NIL | Task: Dataset Collection for Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation | 2 | High | 1 |
| Sprint-1 | Image Pre-processing | NIL | Task: Image Pre-processing i.e., Configure the Image width, height, horizontal flip, vertical flip, rotates via the rotation range, brightness via the brightness range, zooms via the zoom range. | 1 | High | 1 |
| Sprint-2 | Model Building | NIL | Task: the augmented and pre-processed image data, Let’s begin our model building, this activity includes the following steps.   1. Import the model building Libraries 2. Initializing the model 3. Adding CNN Layers 4. Adding Hidden Layer 5. Adding Output Layer 6. Configure the Learning Process 7. Training and testing the model 8. Saving the model | 2 | High | 2 |
| Sprint-3 | Application Building | NIL | Task: building a web application that is integrated into the model we built | 2 | Medium | 2 |
| Sprint-3 | Enter into the application | USN-1 | As a user, I can enter into the application using click link | 1 | High |  |
| Sprint-3 | Upload an image | USN-2 | As a user, I can upload an image by clicking upload button then select my image after clicking submit button. | 0 | High |  |
| Sprint-3 | Predict the result | USN-3 | As a user, I can predict the result by clicking predict button | 0 | High |  |
| Sprint-4 | Train the model on IBM | NIL | Train the model on IBM | 2 | High | 3 |

**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 |  |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 20 | 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)



**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

[**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](https://www.atlassian.com/agile/project-management)

[**https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software**](https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

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[**https://www.atlassian.com/agile/project-management/estimation**](https://www.atlassian.com/agile/project-management/estimation)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)