# Project Planning Phase

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

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|---|---|
| Date | 11 November 2022 |
| Team ID | PNT2022TMID30834 |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | 4 |
| Sprint-2 | Cloud Database | USN-2 | A global technology and a flagship company that provides hardware, software, cloud-based services and cognitive computing. | 1 | High | 4 |
| Sprint-3 | External API-1 | USN-3 | External application interfaces used in the Application. | 2 | Low | 4 |
| Sprint-4 | External API-2 | USN-4 | External application interfaces used in the Application. | 2 | Medium | 4 |
| Sprint-5 | Machine Learning Model | USN-5 | Object recognition is a subfield of computer vision, artificial intelligence, and deep machine learning. | 1 | High | 4 |
| Sprint-6 | Deep learning Model | USN-6 | The images from the created dataset are feedinto a neural network algorithm. | 2 | High | 4 |
| Sprint-7 | Login | USN-7 | As a user I can login by entering my password, and the email-id. | 2 | High | 4 |
| | Dashboard | | | | | |

**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 | 12 NOV 2022 | 18 Oct 2022 | 20 | 18 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 20 NOV 2022 | 26 Nov 2022 | | 26 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 27 Nov 2022 | 3 DEC 2022 | | 3 DEC 2022 |
| Sprint-4 | 20 | 6 Days | 3 DEC 2022 | 9 DEC 2022 | | 9 DEC 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:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.