**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID53169 |
| 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-4 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 5 | Medium | Anirudh |
| Sprint-4 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | Medium | Bhavesh |
| Sprint-2 | Model Training | USN-3 | As a user, I want the ML model to be as accurate as possible. | 5 | Low | Bhuvaneshwar |
| Sprint-2 |  | USN-4 | As a user, I want quality data to be collected for the purposes of training the model. Also, image processing methods must be employed to pre-process the dataset. | 5 | Medium | Bhuvaneshwar |
| Sprint-4 | Login | USN-5 | As a user, I can log into the application by entering email & password | 3 | Medium | Anirudh, Bhavesh |
| Sprint-1 | Homepage | USN-6 | As a user, the homepage must properly define the Arrhythmia, its causes and effects and understand how the application helps in solving the problem. | 5 | High | Chirag |
| Sprint-1 | More Information Page | USN-7 | As a user, I must be able to comprehend all medical jargon related to Arrhythmia such as ECG, Coronary Heart Disease, Cardiomyopathy and its types. | 5 | High | Chirag |
| Sprint-3 | Prediction Page | USN-8 | As a user, I must be able to upload the ECG image for prediction. | 8 | High | Chirag, Bhuvaneshwar |
| Sprint-3 | Results Page | USN-9 | As a user, I must be able to view the results of the classification. For this purpose, an ML model must be trained on the dataset. Also, I must also receive additional information about the type of arrhythmia. | 13 | High | Chirag, Anirudh |
| Sprint-3 | Contact Information circulation | USN-10 | As a user, I must be directed to further sources of help which would help in the treatment process via my e-mail. | 5 | Medium | Bhuvaneshwar, Bhavesh |
| Sprint-4 | Hosting | USN-11 | As a user, it must be accessible on a single website for both mobile, PC users. | 3 | Medium | Bhavesh, Anirudh |

**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 | 10 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 10 | 05 Nov 2022 |
| Sprint-3 | 26 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 13 | 6 Days | 14 Nov 2022 | 19 Nov 2022 |  |  |