**Project Planning Phase**

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Date |  |  | 08 November 2022 |  |  |  |  |
|  |  | Team ID |  |  | **PNT2022TMID349645** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | 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** | | **User** | **User Story / Task** | | **Story** | **Priority** | | **Team Members** |
|  | **Requirement (Epic)** | | **Story** |  |  | **Points** |  |  |  |
|  |  |  | **Number** |  |  |  |  |  |  |
| Sprint-1 | Registration | | USN-1 | As a user, I can register for the | | 4 | Low | | Vishnuvaradhan.V |
|  |  |  |  | application by entering my email, and | |  |  |  |  |
|  |  |  |  | password, and confirming my password | |  |  |  |  |
| Sprint-1 | E-mail confirmation | | USN-2 | As a user, I will receive a confirmation | | 4 | Low | | Pravin kumar.D |
|  |  |  |  | email once I have registered for the | |  |  |  |  |
|  |  |  |  | application | |  |  |  |  |
| Sprint-1 | Login Page | | USN-3 | As a user, I can log into the | | 6 | Medium | | Ramalingam.R |
|  |  |  |  | application by entering my | |  |  |  |  |
|  |  |  |  | email & password | |  |  |  |  |
| Sprint-2 | Dashboard | | USN-4 | As a user, based on my requirement I | | 4 | High | | Dharun.C |
|  |  |  |  | can navigate through the dashboard. | |  |  |  |  |
|  |  | |  |  | |  |  | |  |
| Sprint-2 | Upload Images | | USN-5 | As a user,I should be able to upload the | | 6 | Low | |  |
|  |  |  |  | image of ECG. | |  |  |  | Ramalingam.R |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-2 | Initialize the Model | USN-6 | Initializing the Image recognition model | 2 | Low | Pravin kumar.D |
|  |  |  |  |  |  |  |
| Sprint-2 | Train the model | USN-7 | As a developer, the dataset will be | 6 | High | Ramalingam.R |
|  |  |  | uploaded and trained by developed |  |  |  |
|  |  |  | algorithm. |  |  |  |
| Sprint-2 | Testing & Evaluation | USN-8 | As a developer, we tested the trained | 6 | High | Vishnuvaradhan.V |
|  |  |  | model using the provided dataset and |  |  |  |
|  |  |  | model will be evaluated for accurate |  |  |  |
|  |  |  | results. |  |  |  |
| Sprint-3 | Prediction Model | USN-9 | After the Testing and Evaluation, we will | 4 | Medium | Dharun .C |
|  |  |  | try to predict accurate result. |  |  |  |
|  |  |  |  |  |  |  |
| Sprint-3 | Cloud Storage | USN-10 | The developer must create a storage in | 4 | High |  |
|  |  |  | cloud for storing customer information |  |  | Pravin kumar.D |
| Sprint-3 | User Activity | USN-11 | As a customer, my past in the | 4 | Medium | Ramalingam.R |
|  |  |  | websites is displayed |  |  |  |
| Sprint-3 | Report Generation | USN-12 | We can Test the model through Loaded | 4 | Medium | Vishnuvaradhan.V |
|  |  |  | necessary libraries, the saved model |  |  |  |
| Sprint-4 | Result of the | USN-13 | As a user, We will get Final output for | 6 | High | Pravin kumar.D |
|  | Classification |  | the type of Arrhythmia |  |  |  |
| Sprint-4 | Contact Us | USN-14 | The users can contact us developers for | 4 | Medium | Dharun .C |
|  |  |  | further queries or information |  |  |  |
| Sprint-4 | About Us | USN-15 | Information about the developers and their | 8 | Medium |  |
|  |  |  | current progress. |  |  | Ramalingam.R |
| Sprint-4 | Model Deployment | USN-16 | The final model is deployed for the end user | 8 | Medium |  |
|  |  |  | to use |  |  |  |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story** | **Duration** | **Sprint Start** | **Sprint End Date** | | **Story Points** | **Sprint Release Date** | |
|  | **Points** |  | **Date** | **(Planned)** | | **Completed (as** | **(Actual)** | |
|  |  |  |  |  |  | **on Planned** |  |  |
|  |  |  |  |  |  | **End Date)** |  |  |
| 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:**

To calculate the team’s **average velocity (AV)** per iteration unit

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  | |  |
| Where, | **Average Velocity** - Story points per day | | |
|  | **Sprint duration** - Number of days (Duration) for | | |
|  | Sprints | |  |
|  | **Velocity** | | - Points per Sprint |



Av= 20



6

= 3.3

**Burndown Chart:**

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile [software](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) [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.

**Burndown Chart:**

