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

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|---|---|
| Date | 22 October 2022 |
| Team ID | PNT2022TMID45847 |
| Project Name | Project - Visualizing and Predicting Heart Diseases with an interactive Dashboard |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule and Estimation (4 Marks)**

| 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 | Vishwa B |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Jothivel T Hemachandran C |
| Sprint-2 | | USN-3 | As a user, I can register for the application through Mobile number | 2 | Low | Selvakumar N Vishwa B Jothivel T Hemachandran C |
| Sprint-1 | | USN-4 | As a user, I can register for the application through Gmail | 2 | Medium | Vishwa B Hemachandran C Selvakumar N |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High | Vishwa B Jothivel T |
| Sprint-2 | Dashboard | USN-6 | Profile - view & update your profile | 2 | High | Vishwa B Jothivel T Hemachandran C Selvakumar N |

| Sprint-1 | | USN-7 | Change Password - user can change the password | 1 | High | Vishwa B Selvakumar N |
|---|---|---|---|---|---|---|
| Sprint-1 | | USN-8 | Home - Analyze your Heart | 2 | High | Vishwa B Jothivel T Hemachandran C Selvakumar N |
| Sprint-3 | | USN-9 | The user will have to fill in the below 13 fieldsfor the system to predict a disease -Age in Year -Gender -Chest Pain Type -Fasting Blood Sugar -Resting Electrographic Results(Restecg) -Exercise Induced Angina(Exang) -The slope of the peak exercise ST segment -CA – Number of major vessels colored by fluoroscopy -Thal -Trest Blood Pressure -Serum Cholesterol -Maximum heart rate achieved(Thalach) -ST depression induced by exercise(Oldpeak) | 2 | High | Vishwa B Jothivel T Hemachandran C Selvakumar N |
| | | USN-10 | View Doctors - view doctor detail by searching by names or filter by specialty | 1 | Medium | Vishwa B Jothivel T Hemachandran C Selvakumar N |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-3 | System Requirement | USN-11 | I.      Hardware Requirement<br>  i.    Laptop or PC<br>      • I5 processor system or higher<br>      • 4 GB RAM or higher<br>      • 128 GB ROM or higher<br>  ii. Android Phone (12.0 and above) | 2 | High | Vishwa B<br>Jothivel T |
| Sprint-3 | | USN-12 | II.      Software Requirement<br>  iii. Laptop or PC<br>      • Windows 10 or higher<br>      • Android Studio | 2 | Medium | Hemachandran C<br>Selvakumar N |
| Sprint-2 | | USN-13 | As a user, I can log into the application by entering email & password | 2 | High | Vishwa B |
| Sprint-2 | | USN-14 | User can view his/her complete medical analysis and accuracy of disease prediction | 2 | High | Hemachandran C |
| Sprint-4 | Helpdesk | USN-15 | Query | 1 | High | Vishwa B |
| | | USN-16 | Ratings | 2 | Medium | Jothivel T<br>Hemachandran C |
| | Dashboard | USN-17 | Verification | 2 | High | Selvakumar N<br>Vishwa B |
| | | USN-18 | Validation | 1 | High | Hemachandran C<br>Jothivel T |
| | | USN-19 | Feedback - send feedback to the Admin. | 2 | Medium | Vishwa B<br>Jothivel T<br>Hemachandran C<br>Selvakumar N |

**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 | 18 | 06 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 11 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 19 | 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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

**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.

**Goal: 60 hours in 5 days**

**Burndown Chart**

- Actual effort
- Estimated effort