

# **Visualizing and Predicting Heart Diseases with an Interactive Dash Board**

**Team ID: PNT2022TMID24040**

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## Project Planning Phase

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

#### Product Backlog, Sprint Schedule, and Estimation

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	1
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	2
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	4
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	3
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	2
Sprint-2	Dashboard	USN-6	Profile - view & update your profile	2	High	5
Sprint-1		USN-7	Change Password - user can change the password	1	High	2
Sprint-1		USN-8	Home - Analyze your Heart	2	High	5

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-9	<p>The user will have to fill in the below 13 fields for the system to predict a disease</p> <ul style="list-style-type: none"> <li>-Age in Year -Gender</li> <li>-Chest Pain Type</li> <li>-Fasting Blood Sugar</li> <li>-Resting Electrographic Results(Restecg)</li> <li>-Exercise Induced Angina(Exang)</li> <li>-The slope of the peak exercise ST segment</li> <li>-CA – Number of major vessels colored by fluoroscopy</li> <li>-Thal</li> <li>-Trest Blood Pressure</li> <li>-Serum Cholesterol -Maximum heart rate achieved(Thalach)</li> <li>-ST depression induced by exercise(Oldpeak)</li> </ul>	2	High	5
		USN-10	View Doctors - view doctor detail by searching by names or filter by specialty	1	Medium	4
Sprint-3	System Requirment	USN-11	<p>I. Hardware Requirement</p> <ul style="list-style-type: none"> <li>i. Laptop or PC</li> <li>• I5 processor system or higher</li> </ul>	2	High	2

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
			<ul style="list-style-type: none"> <li>• 4 GB RAM or higher</li> <li>• 128 GB ROM or higher</li> </ul> ii. Android Phone (12.0 and above)			
Sprint-3		USN-12	II. Software Requirement iii. Laptop or PC <ul style="list-style-type: none"> <li>• Windows 10 or higher</li> <li>• Android Studio</li> </ul>	2	Medium	2
Sprint-4	Dashboard	USN-13	Query	1	High	1
		USN-14	Toll Free	1	High	1
		USN-15	Ratings	2	Medium	2
		USN-16	Verification	2	High	2
		USN-17	Validation	1	High	2
		USN-18	Feedback – send feedback to the Admin	2	Medium	3

## Project Tracker, Velocity

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)

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

**Reference:**

<https://ieeexplore.ieee.org/document/9619208/>