Project Planning Phase

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

Date	27 October 2023
Team ID	PNT2023TMID 591217
Project Name	Project - Visualizing and Predicting Heart Diseases with An Interactive Dash Board
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	Data integration and pre-processing	USN-1	As a project manager, I want to oversee the progress of data integration and ensure that the project stays on schedule and within budget.	3	High	Manasa
Sprint-1		USN-2	As a data engineer, I want to establish a data integration pipeline that can update data regularly	2	High	Chaithra
Sprint-1		USN-3	As a data scientist, I want to preprocess the integrated data, cleaning and organising it for analysis.	4	Low	Sriram
Sprint-1		USN-4	As a data analyst, I want to gather and integrate relevant heart disease datasets to feed into the system.	4	Medium	Manasa
Sprint-1		USN-5	As a database administrator, I want to set up a reliable and efficient database system to store the heart disease data for easy retrieval and analysis.	4	High	Madhu
Sprint-2	User authentication and access control	USN-6	As a user, I want to register for the application by providing my email and password.	3	High	Manasa

		USN-7	As an administrator, I want to be able to manage user roles and permissions within the system.	3	High	Chaithra
		USN-8	As a developer, I want to implement multi-factor authentication (MFA) to enhance the security of user accounts.	3	Medium	Madhu
		USN-9	As a user, I want to receive email confirmations upon successful registration and important account actions, such as password changes.	4	Medium	Manasa
		USN-10	As a support agent, I want access to a user's account for troubleshooting purposes, with proper user consent and authentication checks.	3	Low	Sriram
Sprint-3	Database setup	USN-11	As a user, I want to continue to provide data and feedback.	3	Low	Madhu
		USN-12	As an administrator, I want to review and approve data requests.	4	High	Manasa
		USN-13	As a developer, I want to design the database schema.	3	Medium	Chaithra
		USN-14	As a support agent, I want to assist with any data submission issues from users	4	High	Sriram
Sprint-4	Real time updates and deployment	USN-15	As a user, I want to experience real-time data updates.	4	High	Chaithra
		USN-16	As an administrator, I want to oversee deployment.	3	Medium	Manasa
		USN-17	As a developer, I want to implement real-time data updates.	4	Medium	Sriram
		USN-18	As a support agent, I want to assist with real-time data related issues	2	Low	Madhu
		USN-19	As a developer, I want to deploy the dashboard.	4	High	Chaithra
Sprint-5	Security compliance and validation	USN-20	As a developer, I want to conduct a security code review.	5	High	Chaithra
		USN-21	As a security analyst, I want to perform a security scan of the application.	4	Medium	Sriram

		USN-22	As a compliance officer, I want to ensure that the software complies with GDPR regulations.	3	High	Manasa
		USN-23	As a developer, I want to implement two-factor authentication.	3	Medium	Chaithra
		USN-24	As a quality assurance engineer, I want to conduct penetration testing.	4	High	Madhu
Sprint-6	Personal healthcare appointments	USN-25	As a patient, I want to be able to schedule a healthcare appointment online.	3	Medium	Sriram
		USN-26	As a patient, I want to receive appointment reminders.	1	Low	Sriram
		USN-27	As a patient, I want to be able to reschedule or cancel my appointment online.	2	Low	Madhu
		USN-28	As a healthcare provider, I want to receive appointment requests through an online system.	2	Medium	Madhu
		USN-29	As a healthcare provider, I want to be able to confirm or reject appointment requests.	2	Medium	Chaithra
		USN-30	As a patient, I want to have access to my appointment history.	1	Low	Chaithra
		USN-31	As a healthcare provider, I want to be able to securely store patient appointment data.	2	Medium	Manasa
		USN-32	As a patient, I want to be able to choose my preferred healthcare provider when scheduling appointments.	1	Low	Manasa

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	17	3 Days	27 Oct 2023	29 Oct 2023	17	29 Oct 2023
Sprint-2	16	4 Days	30 Oct 2023	02 Nov 2023	17	02 Nov 2023
Sprint-3	14	7 Days	02 Nov 202	08 Nov 2023	14	08 Nov 2023
Sprint-4	17	4 Days	09 Nov 2023	12 Nov 2023	17	12 Nov 2023
Sprint-5	19	8 Days	12 Nov 2023	19 Nov 2023	19	19 Nov 2023
Sprint-6	14	6 Days	20 Nov 2023	25 Nov 2023	14	25 Nov 2023

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let us calculate the team's average velocity (AV) per iteration unit (story points per day)

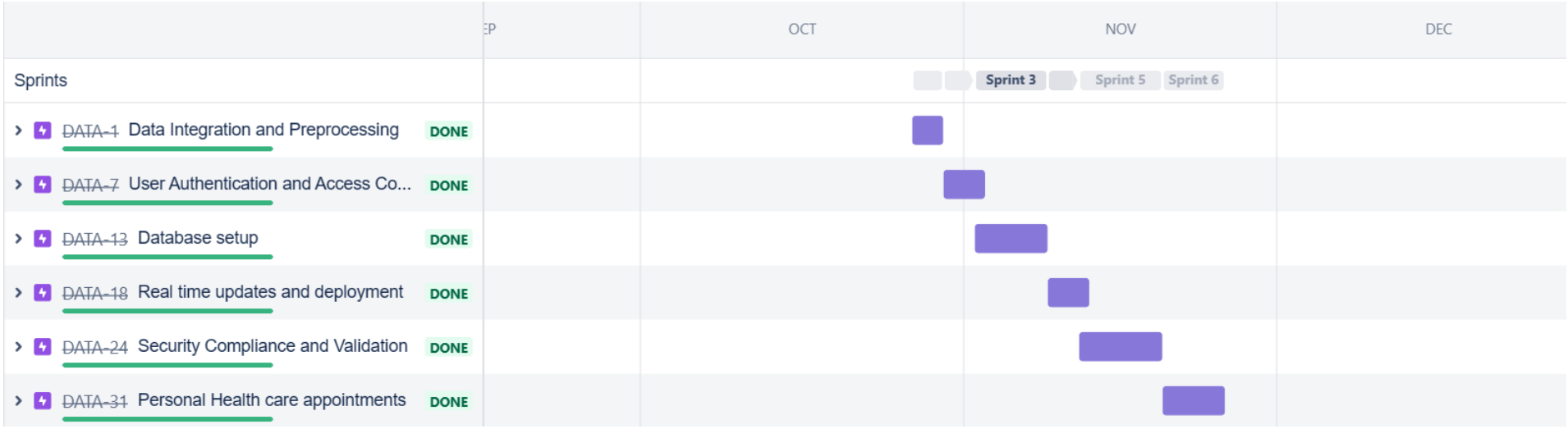
AV = Sprint duration/Velocity

AV = 16/4 = 4

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.

Time line:



https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

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