Project Planning Phase

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

Date	25 June 2025
Team ID	LTVIP2025TMID59371
Project Name	HealthAI-Intelligent-Healthcare-Assistant-Using-IBM-Granite
Maximum Marks	5 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	Data Collection	USN-1	As a data engineer, I want to collect health-related datasets from public sources	2	High	Divya Siva Naga Malleswari
Sprint-1	Data Collection	USN-2	As a dev, I want to load datasets into the workspace using pandas	1	High	Divya Siva Naga Malleswari
Sprint-1	Data Preprocessing	USN-3	As a dev, I want to handle missing values using mean/median imputation	3	Medium	Sri Vidya Lakshmi
Sprint-1	Data Preprocessing	USN-4	As a dev, I want to encode categorical variables for model compatibility	2	Medium	Sri Vidya Lakshmi
Sprint-2	Model Building	USN-5	As a data scientist, I want to build disease prediction model using ML techniques	5	High	Sujan
Sprint-2	Model Testing	USN-6	As a dev, I want to test the model for accuracy, recall, and precision	3	High	Sujan

Sprint-2	Deployment	USN-7	As a dev, I want to create basic HTML pages for the frontend	3	Medium	Divya Siva Naga Malleswari
Sprint-2	Deployment	USN-8	As a dev, I want to deploy the app using Flask on localhost	5	High	Divya Siva Naga Malleswari

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date (Actual)
Sprint-1	8	5 Days	16 Jun 2025	20 Jun 2025	8	20 Jun 2025
Sprint-2	16	5 Days	22 Jun 2025	26 Jul 2025	16	26 Jun 2025

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.

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

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

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