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

Date	18 October 2022
Team ID	PNT2022TMID12449
Project Name	Analytics for Hospitals' Health-Care Data
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	Medium	Sam Alvin Ajith Kumar
Sprint-1	Visualize the data	USN-2	As a user, I can visualize the dashboard of number of vacancy beds in hospital	20	High	Muthukumar Sudarsanan
Sprint-2	Tracking patient's details	USN-3	Analyse the patient's health care history and screening of data they have in hospital	10	Medium	Muthukumar Ajith Kumar
Sprint-2	Dashboard	USN-4	Interactive dashboard can be created for the respective user's details	20	High	Sudarsanan Sam
Sprint-3	View patient's details	USN-5	View all the patient's details and to get a clear idea of what to do	10	Medium	Muthukumar Sam Alvin
Sprint-3	Create Story	USN-6	As a user, I need the story visualization of the obtained dataset with insights	20	High	Sudarsanan Ajith Kumar
Sprint-4	Predict Length of stay of patient	USN-7	As a user, I need a system to predict the Length of stay of patients	20	High	Sudarsanan Ajith Kumar Muthukumar Sam Alvin
Sprint-4	Using ML algorithm for predicting the data	USN-8	Using ML algorithm,LOS is predicted for patients and bed allocations can be done in efficient manner	20	High	Sudarsanan Ajith Kumar Muthukumar Sam Alvin

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	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:

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