Project Planning Phase

Project Planning Template

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		USN-1	the pulse sensor present in the device measures the pulse rate, later these readings are sent to the Arduino-uno. The data from different sensors are sent to the Arduino and through NodeMCU.	20	High	Absal, Sathish
Sprint-2		USN-2	If the patient does not know how to use the mobile then the device has some push buttons just by pressing them	20	Medium	Arjumath, Jana
Sprint-3		USN-3	Through the NODEMCU, it sends an alert by message to the Doctor	20	Medium	Jana, Absal
Sprint-4		USN-4	Through the NODEMCU, it sends an alert by message to the family member	20	High	Sathish, Arjumath

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)

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