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

Date	18 October 2022
Team ID	PNT2022TMID26030
Project Name	Project - IOT Based Safety Gadget for Child Safety Monitoring&Notification
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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, and password, and confirming my password.	4	High	Mithra shree.K.R
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	Ann Maria Fredy
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	Swethapriyaa.S
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	Tejaswini.G
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform	4	High	Mithra shree.K.R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	Ann Maria Fredy
Sprint-2	Store data	USN-1	As a user, I need to continuously store my location data into the database.	10	Medium	Swethapriyaa.S
Sprint-3	Communication	USN-1,2	As a user, I should be able to communicate with my parents	6	Low	Tejaswini.G
Sprint-3	IOT Device – Watson communication	USN-1,3	The data from IOT device should reach IBM Cloud	7	Medium	Mithra shree.K.R
Sprint-3	Node RED- Cloudant DB communication	USN-1,4	The data stored in IBM Cloud should be properly integrated with Cloudant DB	7	High	Ann Maria Fredy
Sprint-4	User – WebUI interface	USN-1,5	The Web UI should get inputs from the user	10	High	Swethapriyaa.S
Sprint-4	Geofencing	USN-1,2,5	The geofencing of the child should be done based on the geographical coordinates	10	High	Tejaswini.G

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	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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)

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

SPRINTS	AV
SPRINT-1	20/6=3.33
SPRINT-2	20/6=3.33
SPRINT-3	20/6=3.33
SPRINT-4	20/6=3.33

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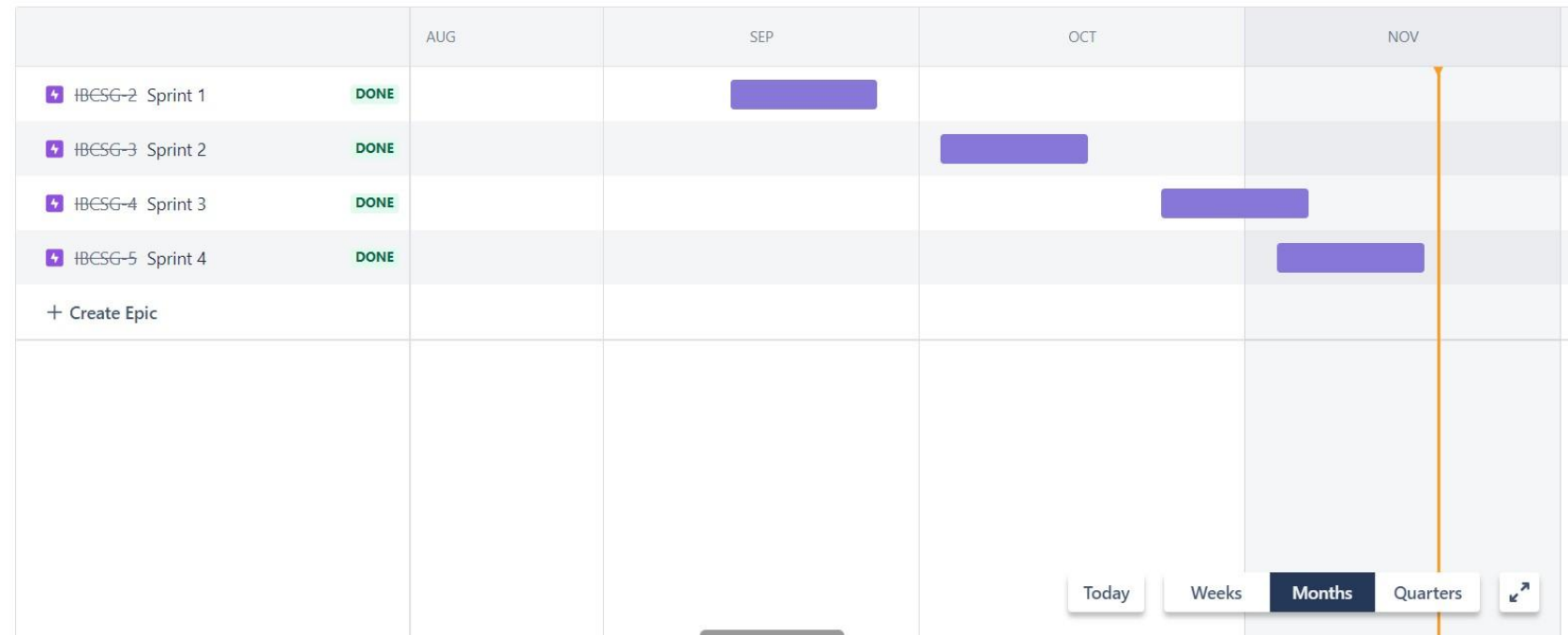
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