Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID21372
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
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	I am able to get location updates correctly	10	High	Harippriyadharshini Harshavardhini
Sprint-1		USN-2	As a user, I can register in the application correctly	10	Medium	Hithayathun Nihma Kauri Sheetal
Sprint-2		USN-3	As a user, I can keep an eye on my child whether he /she is within the geofence.	10	High	Harippriyadharshini Hithayathun Nihma
Sprint-2		USN-4	As a user, I am able to get a warning message when my child crosses the geofence.	10	High	Harshavardhini Kauri Sheetal
Sprint-3	Login	USN-5	As a user, I can log into the application by entering email & password	10	High	Harippriyadharshini Kauri Sheetal
Sprint-3	Generating data	USN-6	Location of child checked periodically after some time.	10	High	Harshavardhini Hithayathun Nihma
		USN-7	Location details of the child is constantly updated online.	10	High	Harippriyadharshini
Sprint-4	Problem solving	USN-8	As an executive I am able to solve the problems of the users with the given instructions	10	Medium	Kauri Sheetal
Sprint-4	Administering the timely data	USN-9	As an admin I am able to get through the interface and administer the data functionality	10	High	Harshavardhini Hithayathun Nihma Harippriyadharshini

SPRINT	ISSUES TO BE DEALT WITH	FUNCTONAL REQUIREMENT	STORY POINTS
SPRINT 1	Install python software from python.org	PYTHON COMPILER	10
	Create account in IBM platforms	IBM CLOUD IBM IOT IBM WATSON	10
SPRINT 2	Create device in IBM Watson and note down the credentials	IBM WATSON	10
	Develop python code to connect with IBM Watson to send location	PYTHON COMPILER IBM WATSON	10
SPRINT 3	Install needed libraries and connect required nodes in NODE RED	NODE RED	5
	Connect IBM Watson and IBM Cloudant with NODE RED	IBM CLOUDANT IBM WATSON NODE RED	5
	Type in on message so for all the nodes – formatting all nodes in circuit with respect to their function	NODE RED IBM CLOUDANT IBM WATSON	10
	Debug and verify outputs for in area and out area location	NODE RED IBM WATSON IBM CLOUDANT	10
SPRINT 4	Location always updated in NODE RED	PYTHON COMPILER NODE RED IBM WATSON IBM CLOUDANT	6
	Show dialog during out area in NODE RED WEB UI	NODE RED DASHBOARD	7
	IN area location specified in world map in NODE RED WEB UI	NODE RED DASHBOARD	7

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	30	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)

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