Project Planning Phase

Date	28 October 2022
Team ID	PNT2022TMID09825
Project Name	IoT- Based Safety Gadget for Child Safety Monitoring&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		US-1	Create the IBM Cloud services which are being used in this project.	6	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-1		US-2	Configure the IBM Cloud services which are being used in completing this project.	4	Medium	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-1		US-3	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.	5	Medium	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-1		US-4	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	5	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-2		US-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	10	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-2		US-2	Create a Node-RED service.	10	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-3		US-1	Develop a python script to create the geofence and publish the location of the child to the IBM IoT platform	7	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		US-2	After developing python code, commands are received just print the statements which represents the location of the child	5	Medium	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-3		US-3	Publish Data To The IBM Cloud	8	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-4		US-1	Create Web UI in Node- Red	10	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D
Sprint-4		US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received location data in the cloudant DB	10	High	Nishanthi G,pugazhmathi R,Muthuamy A,Harisurajkumar D

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)

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