Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID21935
Project Name	IOT BASED SAFETY GADGET FOR CHILD 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	Create and Configure IBM Cloud Services	USN-1	As a user I need to enrol the cloud registration	6	HIGH	RITHVIK KUMAR K.S
Sprint-1		USN-2	As a user, I will create IBM cloud account.	2	MEDIUM	RITHVIK KUMAR K.S
Sprint-1		USN-3	After creating cloud account launch IBM Watson IOT platform by accessing cloud account	5	HIGH	RENNY RICHARD. P
Sprint-1		USN-4	Create the node in IBM Watson platform	3	HIGH	SAI KAUSHIK. H
Sprint-1		USN-5	After Creating node get device Type and id	1	LOW	SAI SARAN A.J
Sprint-1		USN-6	Simulate the node created	3	MEDIUM	SAI SARAN A.J
Sprint-2	Create and access Node-Red	USN-7	As a user ,I can create Node-red by app deployment	5	HIGH	RENNY RICHARD. P
Sprint-2		USN-8	Connect IBM Watson with node red through API key	5	LOW	RITHVIK KUMAR K.S
Sprint-2		USN-9	Design the project flow using Node-Red	7	HIGH	SAI SARAN A.J
Sprint-2		USN-10	Check for the proper connections and the output in the node red application	3	MEDIUM	SAI KAUSHIK. H

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	User signup/login	USN-11	As a user, I can sign up for the application by entering my phone number , user name, password, and confirming my password	2	HIGH	RENNY RICHARD. P
Sprint-3	User confirmation	USN-12	As a user, I can login with my username and password once signed up, I will receive confirmation mail and OTP.	2	LOW	SAI KAUSHIK. H
Sprint-3	Setting geo-fence	USN-13	To specify the geo location coordinates for geofence based on user given input	4	HIGH	SAI KAUSHIK. H
Sprint-3	Tracking location	USN-14	I input live location from sensor	4	HIGH	SAI SARAN A.J
Sprint-3	User location check	USN-15	I check for out of boundary location against established geo-fence by fetching live location from cloud database	2	LOW	RENNY RICHARD. P
Sprint-3	Database	USN-16	Creation of a database	6	HIGH	RITHVIK KUMAR K.S
Sprint-4	Interfacing	USN-17	To connect all involved scripts, database and devices	10	HIGH	RENNY RICHARD. P
Sprint-4	User notification	USN-18	To develop a module to notify user via app in case of possible emergency	10	MEDIUM	RITHVIK KUMAR K.S
Sprint-4	Emergency usage	USN-19	To develop a module to notify user via mobile number in case of possible emergency	5	HIGH	SAI SARAN A.J
Sprint-4	Maintaining Database	USN-20	Monitor and maintain all database	5	HIGH	SAI KAUSHIK. H

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 (In progress)	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20 (In progress)	12 Nov 2022
Sprint-4	30	6 Days	14 Nov 2022	19 Nov 2022	30 (In progress)	19 Nov 2022

Velocity:

We have a 6-day sprint duration, and the velocity of the team is 20 (approx.) points per sprint. Let us calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = sprint\ duration / velocity = 06/20 = 0.3$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.