

## Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID46191
Project Name	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	IBM CLOUD services and software (PREREQUISITIES)	USN-1	In this sprint we will create IBM cloud services and we will download python software to develop the python script	2	High	Theo Thrinisha Mary Anitha, Malarvizhi, Nageswari
Sprint-2	Project Objectives & create IBM Watson IOT Platform and device & create Node-Red services & create a database in Cloudant database	USN-2	In this sprint we will go through the project objectives process and create IBM Watson IOT Platform & device and also Create node-red services & create a database in cloudant database by downloading the software and creating the account in it.	2	High	Theo Thrinisha Mary Anitha, Malarvizhi, Nageswari
Sprint-3	Develop the python script	USN-3	In this sprint we should develop a python script to implement the software and to develop a web application for child safety monitoring	2	High	Theo Thrinisha Mary Anitha, Malarvizhi, Nageswari
Sprint-4	Develop a web application using Node-Red services	USN-4	In this sprint we will develop a web application using node-red services and connect it with the cloud application	2	High	Theo Thrinisha Mary Anitha, Malarvizhi, Nageswari

**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	31 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	07 Oct 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 Oct 2022

**Velocity:**

Imagine we have 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)

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

## Burndownchart:

