

PROJECT PLANNING PHASE

SPRINT DELIVERY PLAN

Team ID	PNT2022TMID11653
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	Manikandan S Kishore kumar S Naveen S Navaneethan M
Sprint-1		US-2	Configure the IBM Cloud services which are being used in completing this project.	4	Medium	Manikandan S Kishore kumar S Naveen S Navaneethan M
Sprint-2		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	Manikandan S Kishore kumar S Naveen S Navaneethan M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		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	Manikandan S Kishore kumar S Naveen S Navaneethan M
Sprint-3		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	Manikandan S Kishore kumar S Naveen S Navaneethan M
Sprint-3		US-2	Create a Node-RED service.	10	High	Manikandan S Kishore kumar S Naveen S Navaneethan M
Sprint-3		US-1	Develop a python script to publish random sensor data such as temperature, moisture, soil and humidity to the IBM IoT platform	7	High	Manikandan S Kishore kumar S Naveen S Navaneethan M
Sprint-3		US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	Medium	Manikandan S Kishore kumar S Naveen S Navaneethan M
Sprint-4		US-3	Publish Data to the IBM Cloud	8	High	Manikandan S Kishore kumar S Naveen S Navaneethan M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		US-1	Create Web UI in Node- Red	10	High	Manikandan S Kishore kumar S Naveen S Navaneethan M
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 sensor data in the cloudant DB	10	High	Manikandan S Kishore kumar S Naveen S Navaneethan M

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	3 Days	25 Oct 2022	30 Oct 2022	20	10 Nov 2022
Sprint-2	20	3 Days	31 Oct 2022	07 Nov 2022	20	12 Nov 2022
Sprint-3	20	3 Days	08 Nov 2022	11 Nov 2022	20	12 Nov 2022
Sprint-4	20	3 Days	12 Nov 2022	16 Nov 2022	20	16 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)

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

Burndown Chart:

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

