**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 22 October 2022 |
| Team ID | PNT2022TMID22281 |
| Project Name | Project - IoT Based Safety Gadget for Child Safety Monitoring & Notification |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation**

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Simulator | USN-1 | Connecting all the required sensors and actuators with the Arduino | 1 | High | Silviya |
| Sprint-2 | Cloud | USN-2 | Creating and configuring the IBM cloud account | 2 | High | Niranjana |
| Sprint-2 |  | USN-3 | Implementing the IBM Watson IoT Platform and node red in IBM cloud. | 2 | High | Asvitha |
| Sprint-3 | Application | USN-4 | Developing the python code | 2 | High | Asvitha, Niranjana, Silviya |
| Sprint-3 |  | USN-5 | Developing the application using the MIT App Inventor | 1 | High | Swetha |
| Sprint-4 | Web UI | USN-6 | Allowing the parent or guardian to interact with the application. | 1 | Medium | Mufasarunisa |
| Sprint-4 |  | USN-7 | Allowing the parent or guardian to see the current location status of the children | 2 | High | Asvitha |

**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 | 5 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)

