**Project Planning Phase**

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID37442 |
| Project Name | Project – IoT Based Safety Gadget for Child safety 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 4 | High | Ahamed ali |
| Sprint-1 | Confirmation Email | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 4 | High | Mohamed abdullah |
| Sprint-1 | Authentication | USN-3 | As a user, I can register for the application through Gmail and mobile app | 4 | Medium | Mohamed salahudeen |
| Sprint-1 | Login | USN-4 | As a user ,I can log into the application by entering email and password | 4 | High | Rizwan ahamed |
| Sprint-1 | Dashboard | USN-5 | As a user , I need to able to view the functions that I can perform | 4 | High | Ahamed ali |
| Sprint-2 | Notification | USN-1 | As a user, I should be able to notify my parent and guardian in an emergency situation | 10 | High | Ahamed ali  ,Mohamred abdullah |
| Sprint-2 | Store data | USN-2 | As a user ,I need to continuously store my location data into the database | 10 | High | Mohamed salahudeen  ,Rizwan ahamed |
| Sprint-3 | Communication | USN-3,1 | I should be able to communicate with my parent | 6 | Low | Ahamed ali |
| Sprint-3 | IoT Device- Watson communication | UsN-1,4 | The data from IoT device should reach IBM Cloud | 7 | Mediun | Mohamed abdullah |
| Sprint-3 | Node Red- Cloudant DB communication | USN-5,2 | The data stored in IBM Cloud should be properly integrated with Cloudant DB | 7 | High | Mohamed salahudeen,  Rizwan ahamed |
| Sprint-4 | User - WebUI  Interface | USN-1,4 | The Web UI should get inputs from the user | 10 | High | Ahamed ali, Mohamed salahudeen |
| Sprint-4 | Geofencing | USN-2,3,5 | The geofencing of the child should be done based on the geographical location | 10 | High | Mohamed abdullah,  Rizwan ahamed |

**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)

