**Project Planning Phase**

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

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| --- | --- |
| **Date** | 01 November 2022 |
| **Team ID** | PNT2022TMID06337 |
| **Project Name** | IOT-Based Safety Gadget for Child Safety Monitoring and Notification |
| **Maximum Marks** | 8 Marks |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | MEENAKSHI SUNDARAM SIVABHARATHI |
| Sprint-1 | Confirmation Email | USN-2 | As a user, I will receive confirmation email and SMS once I have registered for the application | 3 | High | NAVINDHAN |
| Sprint-2 | Authentication | USN-3 | As a user, I can register for the application through Email ID and Mobile App. | 2 | Low | KABILAN |
| Sprint-1 | Login | USN-4 | As a user, I can log into the application by entering email & password. | 2 | Medium | MEENAKSHI SUNDARAM |
| Sprint-1 | Dashboard | USN-5 | As a user, I can monitor, measure, | 8 | High | SIVABHARATHI |

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|  |  |  | analyze relevant data in key areas. |  |  |  |
| Sprint-2 | Notification | USN-1 | As a user, I should be able to receive notification when the child is in emergency situations. | 9 | High | NAVINDHAN |
| Sprint-2 | Store data | USN-2 | As a user, I need to store the location data and child information into the database. | 10 | High | KABILAN |
| Sprint-2 | Communication | USN-3,1 | The child and the parent should be able to communicate. | 7 | Medium | SIVABHARATHI  MEENAKSHI SUNDARAM |
| Sprint-3 | IOT Device | USN-1,4 | We automatically monitor the child in real time using Internet of Things, with the help of GPS, GSM, and Raspberry Pi. | 6 | Medium | KABILAN  NAVINDHAN  SIVABHARATHI |
| Sprint-3 | Node RED | USN-5,2 | The data stored in IBM Cloud should be integrated properly. | 8 | High | KABILAN  MEENAKSHI SUNDARAM  SIVABHARATHI |
| Sprint-4 | User Interface | USN-1,4 | The point of human-computer interaction and communication in a device. | 7 | Medium | MEENAKSHI SUNDARAM NAVINDHAN |
| Sprint-4 | Geofencing | USN-2,3,5 | The geofencing of the child should be done based on the geographical coordinates. | 8 | High | MEENAKSHI SUNDARAM SIVABHARATHI |
|  |  |  |  |  |  | NAVINDHANKABILAN |

**Project Tracker, Velocity &Burndown Chart: (4 Marks)**

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 30 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 06 Nov 2022 | 20 | 06 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 09 Nov 2022 | 16 Nov 2022 | 20 | 16 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |