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

| Date | 18 October 2022 |
|---|---|
| Team ID | PNT2022TMID14122 |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |
| Sprint-1 | User confirmation | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |
| Sprint-2 | user login | USN-3 | Setting up user ID and password | 1 | high | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |
| Sprint-1 | App permission | USN-4 | Grant the permission to access the app to check out the location of the children. | 2 | Medium | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Interfacing | USN-5 | Connecting the device with the registered Application. | 1 | High | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| | Setting Geofence | USN-6 | Setting up geofence location and its coordinates | 2 | Medium | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |
| Sprint 4 | user notification | USN -7 | To develop a module to notify the user in case of possible emergency | 2 | High | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |
| Sprint 2 | Tracking location | USN-8 | Live location can be tracked using sensor | 1 | High | Jayaganesh, Kabilashbalaji, Varunprasath, Elumalai |

**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 | 04 Nov 2022 |
|---|---|---|---|---|---|---|
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 11 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

**Velocity:**

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

**Burndown Chart:**