**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)**

|  |  |
| --- | --- |
| Team ID | PNT2022TMID22515 |
| Project Name | IoT Based Safety Gadget for Child Safety Monitoring & Notification |

**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 | User Registration | USN-1 | Registration through app | 10 | High | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-1 | User Confirmation | USN-2 | Confirmation through SMS | 5 | High | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-1 | Authentication | USN-3 | Authentication through app | 5 | High | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-2 | User login | USN-4 | Log into the application by entering username & password. | 5 | Low | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-2 | App permission | USN-5 | Grant the permission for the app to access location, contact | 10 | Medium | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-2 | Communication | USN-6 | The child and the parent able to communicate. | 5 | Medium | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-3 | Interface with the Device | USN-7 | Connecting the device with the registered app with IP address | 10 | High | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-3 | Setting Geo-Fencing | USN-8 | Creating the Geo-Fencing area in the map | 10 | High | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-4 | Database | USN-9 | Location history is stored in the cloud.  Can be accessed from the dashboard. | 10 | Medium | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-4 | Tracking Location | USN-10 | Tracking the location through app. | 5 | Low | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |
| Sprint-4 | Real-Time Capturing | USN-11 | Captures the image/video through camera | 5 | Medium | AJAY.S  ARUL KUMAR.A  CHENGAL NATHAN.K  KARTHIKEYAN.R |

**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 |  |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 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)

