**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID44628 |
| Project Name | Project Planning Phase |
| 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 / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- |
| Sprint-1 | Existing System | In the existing system, we use a voice recognition module in which the alert commands from the child are stored and kept for further reference. | 2 | High | KAVIYADHARSHINI.P  YUVASANKARI.R  JEYALAKSHMI.P  POOVARASAN.P  UJWAL.P |
| Sprint-1 | Proposed System | 1.Temperature sensor  2.Pulse sensor  3.GPS  4.GSM  5.Web camera  6.Raspberry pi microprocessor | 1 | High | KAVIYADHARSHINI.P  YUVASANKARI.R  JEYALAKSHMI.P  POOVARASAN.P  UJWAL.P |
| Sprint-2 | Hardware Description | • Arduino Mega [ATMEGA 2560]. • GSM SIM 800C. • GPS Neo 6m. • 20X4 LCD. • I2C LCD Driver • 7805 Voltage Regulator. • Heart Beat Sensor. • DS18B20 Temperature Sensor. • 1x4 Switch. • ESP8266-12E • Push Button • Logic Level Convertor • Buzzer • LED • ESP32 • OLED • Jumper Cables | 2 | Low | KAVIYADHARSHINI.P  YUVASANKARI.R  JEYALAKSHMI.P  POOVARASAN.P  UJWAL.P |
| Sprint-1 | Software Component | Arduino IDE  Android Studio | 2 | Medium | KAVIYADHARSHINI.P  YUVASANKARI.R  JEYALAKSHMI.P  POOVARASAN.P  UJWAL.P |
| Sprint-1 | Result | The SMS send to parents mobile due to GSM and SIM | 1 | High | KAVIYADHARSHINI.P  YUVASANKARI.R  JEYALAKSHMI.P  POOVARASAN.P  UJWAL.P |

**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 | 31 Oct2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 7 Oct 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 14 Oct 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)



**Burndown Chart:**

100

75

WORK REMAINING 50

25

0

| | | | |

START SPRINT 1 SPRINT 2 SPRINT 3 SPRINT 4