**PROJECT PLANNING PHASE**

**PROJECT PLANNING TEMPLATE(Product Backlog,Sprint Planning,Stories,Story point)**

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| --- | --- |
| DATE | 26 OCTOBER 2022 |
| TEAM ID | PNT2022TDMI32392 |
| PROJECT NAME | IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION |
| TEAM LEADER | AFIYABANU H |
| TEAM MEMBERS | AMRITHA A  ARIVUMATHI G  ASWITHA R |

**PRODUCT BACKLOG,SPRINT SCHEDULE AND ESTIMATION:**

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 | Create and Configure IBM Cloud Services | USN 1 | As a user I need to enroll the cloud registration | 3 | HIGH | Afiya Banu H | |
| SPRINT 1 |  | USN 2 | As a user I will create IBM cloud account | 2 | MEDIUM | Afiya Banu H | |
| SPRINT 1 |  | USN 3 | After creating cloud account launch IBM Watson IOT Platform by accessing cloud account | 5 | HIGH | Arivumathi G | |
| SPRINT 1 |  | USN 4 | Create the node in IBM Watson platform | 7 | HIGH | Amritha A | |
| SPRINT 1 |  | USN 5 | After Creating node get device type and id | 1 | LOW | Aswitha R | |
| SPRINT 1 |  | USN 6 | Simulate the node created | 3 | MEDIUM | Aswitha R | |
| SPRINT 2 | Create and access Node-Red | USN 7 | As a user I can create Node-Red by app deployment | 5 | HIGH | Arivumathi G | |
| SPRINT 2 |  | USN 8 | Connect IBM Watson with node red through API key | 2 | LOW | Amritha A | |
| SPRINT 2 |  | USN 9 | Design the project flow using Node-Red | 7 | HIGH | Afiya banu H | |
| SPRINT 2 |  | USN 10 | Check for the proper connections and the output in the node red application | 3 | MEDIUM | Arivumathi G | |
| SPRINT 3 | Create a database in cloudant DB | USN 11 | Launch the Cloudant DB and Create database to store the location data | 4 | HIGH | Aswitha R | |
| SPRINT 3 | Develop the python script | USN 12 | Install the python software | 2 | LOW | Arivumathi G | |
| SPRINT 3 |  | USN 13 | Develop the python scripts to publish details to IBM IOT Platform | 6 | HIGH | Amritha A | |
| SPRINT 3 |  | USN 14 | Integrate the device id,authentication token in python script | 2 | LOW | Arivumathi G |
| SPRINT 3 |  | USN 15 | Develop the python code for publishing the location(latitude&longitude)to IBM IoT Platform | 8 | HIGH | Amritha A |
| SPRINT 4 | Create the mobile application using MIT App Inventor | USN 16 | Develop the mobile application using MIT App Inventor | 5 | HIGH | Aswitha R |
| SPRINT 4 |  | USN 17 | Connect to the IBM IoT Platform and get the location and store the data in the cloudant | 2 | MEDIUM | Amritha A |
| SPRINT 4 |  | USN 18 | Create the Geo fence and Google map for location identification | 8 | HIGH | Afiyabanu H |
| SPRINT 4 |  | USN 19 | Integrate the geofence and Google map to check if the child is inside or outside the geofence | 11 | HIGH | Afiyabanu H |
| SPRINT 4 |  | USN 20 | Send the notifications if thr child is outside the geofence | 4 | HIGH | Aswitha R |

**Project Tracker,Velocity and Burndown Chart**

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| --- | --- | --- | --- | --- | --- | --- |
| **SPRINT** | **TOTAL STORY POINT** | **DURATION** | **SPRINT START DATE** | **SPRINT END DATE(PLANNED)** | **STORY POINTS COMPLETED(AS ON PLANNED END DATE)** | **SPRINT RELEASE DATE(ACTUAL)** |
| SPRINT 1 | 21 | 6 Days | 24 OCT 2022 | 29 OCT 2022 | 21 | 29 OCT 2022 |
| SPRINT 2 | 17 | 6 Days | 05 NOV 2022 | 05 NOV 2022 | 17 | 05 NOV 2022 |
| SPRINT 3 | 22 | 6 Days | 12 NOV 2022 | 12 NOV 2022 | 22 | 12 NOV 2022 |
| SPRINT 4 | 30 | 6 Days | 14 NOV 2022 | 19 NOV 2022 | 30 | 19 NOV 2022 |