**HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANTS**

**POWERED BY IOT**

**DATA FLOW DIAGRAM & USER STORIES**

**TEAM ID : PNT2022TMID41407**

MEENA S – 620319106035

GAYATHRI S – 620319106023

MOULISHA R - 620319106037

RITHIKA B – 620319106047

**BACHELOR OF ENGINEERING IN ELECTRONICS**

**AND COMMUNICATION ENGINERRING**

**DATA FLOW DIAGRAM:**

Barometer

sensor

for

Temperature

Wearable device

acts as a scanner

Pulse sensor

Blood

pressure

sensor

Arduino UNO

Wi

-

fi Module

App

Beacon device

Alerting

message

**USER STORIES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **USER TYPE** | **FUNCTIONAL**  **REQUIREMENT**  **(EPIC)** | **USER**  **STORY**  **NUMBER** | **USER STORY / TASK** | **ACCEPTANCE**  **CRITERIA** | **PRIORITY** | **RELEASE** |
| Worker in an industrial plant | Registration | USN-1 | As a user, I can wear the device to view the temperature and will receive the alerts to mobile through app once I have registered in the application. | I can access my account / dashboard | High | Sprint-1 |
|  |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | High | Sprint-1 |
|  |  | USN-3 | As a user, I can register for the application through Gmail | I can register & access the dashboard | Low | Sprint-2 |
|  |  | USN-4 | As a user, I can log into the application by entering email & password | I can receive confirmation email & click confirm | Medium | Sprint-1 |
| Worker in industry | Login | USN-1 | As a user, I can wear the device comfortably and I can view the changes in temperature. |  | High | Sprint-1 |
|  |  | USN-2 | As a user, I can receive the alerts correctly to the mobile through app. | I can receive confirmation email | High | Sprint-1 |
| **USER TYPE** | **FUNCTIONAL**  **REQUIREMENT**  **(EPIC)** | **USER**  **STORY**  **NUMBER** | **USER STORY / TASK** | **ACCEPTANCE**  **CRITERIA** | **PRIORITY** | **RELEASE** |
| Worker in mining industry | Login | USN-1 | As a user, I can view the temperature through wearable device though there is no proper signal. |  |  |  |
| Administrator | Login | USN-1 | As a user, I can take necessary precautions once the alerts are received according to the problem. | I can access my account through application. | High | Sprint-1 |
|  |  | USN-2 | I can check the temperature conditions through app and wearable device. |  | Medium | Sprint-2 |