

## Project design Phase II

### Technical stack

|               |  |
|---------------|--|
| Date          | 19 September 2022  |
| Team ID       | PNT2022TMID24986   |
| Project Name  | IOT based safety gadget for child safety monitoring and notification |
| Maximum Marks | 4 Marks  |

### Technical Architecture

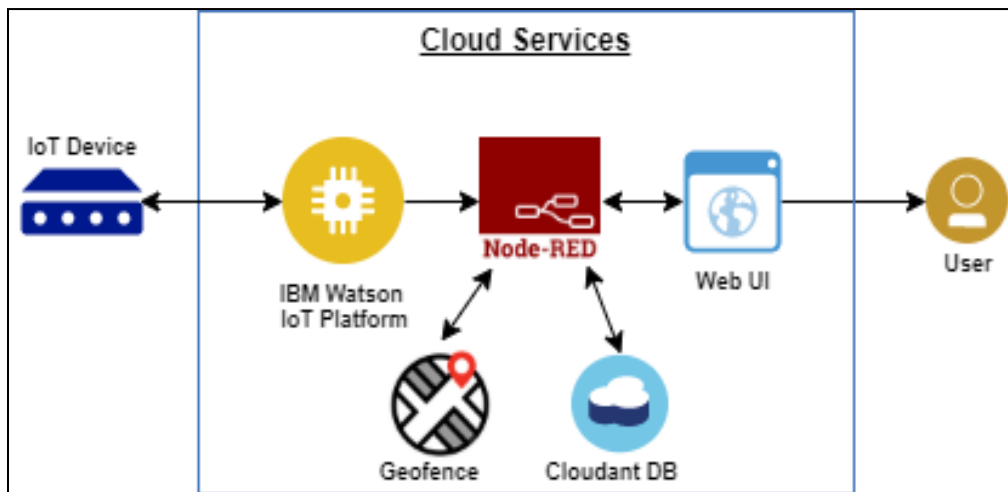


TABLE 1: COMPONENT AND TECHNOLOGIES

| S.NO | COMPONENT      | DESCRIPTION  | TECHNOLOGY |
|------|----------------|--|------------|
| 1    | User interface | The communication protocol being used in the proposed solution might act as an | MIT app    |

|   |                   |   |  |
|---|-------------------|---|--|
|   |                   | interface the way like WIFI,Bluetooth   |  |
| 2 | Application logic | The data to be collected and send to the authenticator via GSM providing the GPS coordinates to easily located access and monitor the child | IBM Watson STT service,python etc                              |
| 3 | Database          | Date to be segregated and secured in the form of relation DBMS  | MySQL  |
| 4 | Cloud Database    | IBM   | IBM Cloudant   |
| 5 | File storage      | File storage requirements   | IBM block storage or other storage service or local filesystem |
| 6 | External API-1    | To access the children location   | GPS location monitoring etc                                    |
| 7 | Infrastructure    | Application deployment on local system/ cloud local server configuration  | Cloud foundry  |

**TABLE 2: APPLICATION CHARACTERISTIC**

| S.NO | CHARACTERISTIC          | DESCRIPTION  | TECHNOLOGY                 |
|------|-------------------------|--|----------------------------|
| 1    | Open source framework   | The Proposed solution being framed in the form an android application of their children                              | UI / UX design development |
| 2    | Security implementation | The developed application should be accessible in the way it can only response to the comments of the relevant users | Encryption,IAM controls    |
| 3    | Scalable Architecture   | The app format comes the way easier to handle and operate  | Not yet determine          |
| 4    | Availability            | <b>The developed solution tends to be available in the market at any time</b>  | Not yet determine          |

|   |             |  |                   |
|---|-------------|--|-------------------|
| 5 | Performance | <b>Highly proper and betterment functionalities are to be ensured in the designed solution</b> | Not yet determine |
|---|-------------|--|-------------------|