**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

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| --- | --- |
| Team ID | PNT2022TMID50776 |
| Project Name | IoT based safety gadgets for child safety monitoring and notification |
| THPRBMDHOBCMaximum Marks | 4 Marks |

**Technical Architecture:**

**USER IBM CLOUD ADMIN**

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**Table-1 : Components & Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
|  | User Interface | The point of human computer interaction and communication in a device. This can include display screens, keyboards, a mouse and the appearance of a desktop | HTML, CSS, JavaScript |
|  | Application Logic | The data to be collected and sent to authenticator’s via GPS to easy locate access a monitor the child | IBM wastson Assistant |
|  | Database | Data to be segregated and secured in the form of relational DBMS | MySQL, NoSQL, etc. |
|  | Cloud Database | IBM | IBM Cloudant |
|  | File Storage | File storage requirements | IBM Block Storage |
|  | External API-1 | To access the children location | GPS location monitor |
|  | Machine Learning Model | Purpose of Machine Learning Model | Object Recognition Model, etc. |
|  | Infrastructure (Server / Cloud) | Application Deployment on Local system | Cloud Foundry |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | The proposed solution being framed in the form an android application providing the end user an easy surveillance of their children | UI/UX design development |
|  | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | Encryptions, IAM cpntrols |
|  | Scalable Architecture | The app format comes the way easier to handle and operate. | Not yet determined |
|  | Availability | The developed solution tends to be available in the market at any time | Not yet determined |
|  | Performance | Highly proper and betterment functionality are to be ensured in the designed solution | Not yet determined |