

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	19 November 2022
Team ID	PNT2022TMID44690
Project Name	Project - IOT Based Safety Gadget for Child Safety Monitoring and Notification.
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

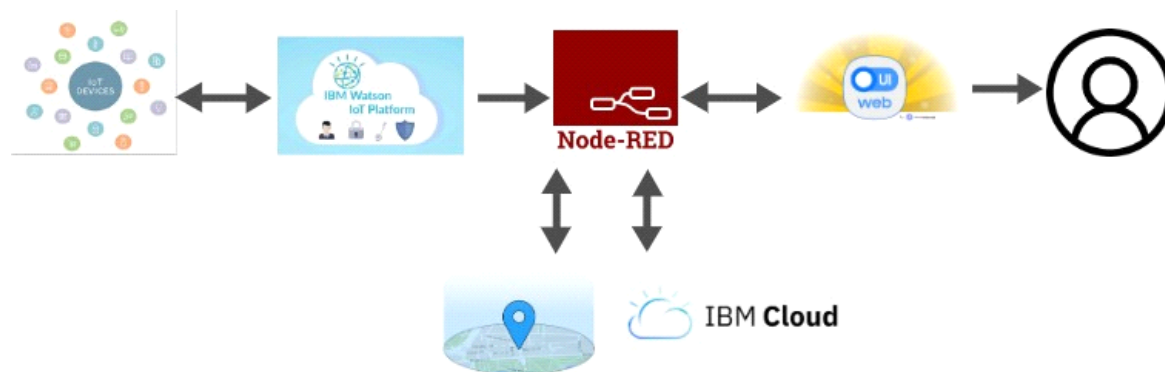


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How the user interacts with the application .Web UI	App development
2.	Application Logic	Logic for a process in the application	Python
3.	Database	Data Type, Configurations etc.	Cloud database
4.	Cloud Database	Database Service on Cloud	IBM Cloudant .
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Cloud/Server	<ul style="list-style-type: none"> Cloud server description Local server description 	Cloud foundry

7.	Protocol	How data exchange on web	HTTP
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Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	We are using the IBM cloud, so for every instance of time it updates the current location of the children to their parents/caretakers.
2.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	The technology is used to monitor and send alert notification.
3.	Availability	Justify the availability of applications (e.g. use of load balancers, distributed servers etc.)	We are using the geofence, a service that triggers an action when a device enters a set location