

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID19077
Project Name	Project-- IoT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks

Technical Architecture:

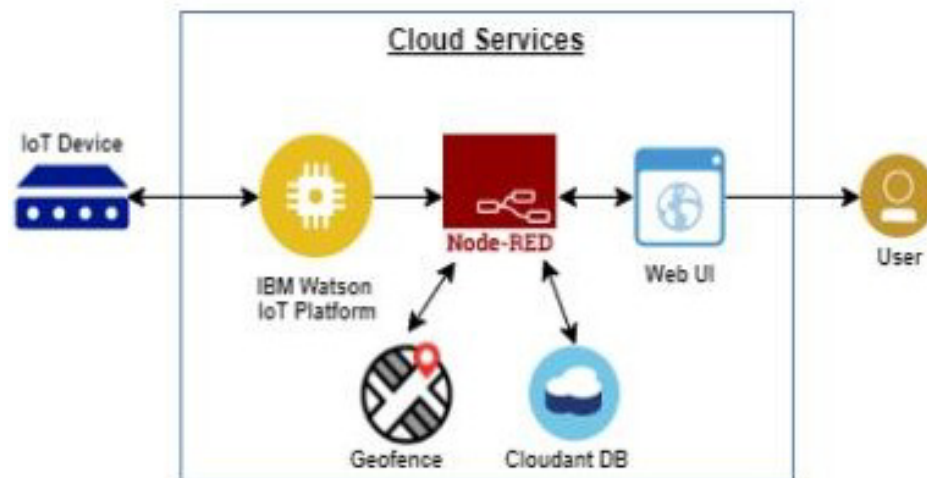


Table-1: Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	The communication protocol being used in theproposedsolutionmightactasaninterface thewaylike WiFi,BluetoothandZigBee	MITapp
2.	ApplicationLogic	Thedatatobe collectedandsenttothe authenticator's(parent) via GSM providing the GPScoordinatestoeasily locateaccess andmonitorthe child	IBMWatsonSTT service, pythonetc
3.	Database	Datato be segregatedandsecuredintheformof relationalDBMS	.MySQL
4.	CloudDatabase	IBM	IBMCloudant
5.	FileStorage	Filestorage requirements	IBMBlockStorageorOtherStorageService orLocalFilesystem
6.	ExternalAPI	To accessthechildren location	GPSlocationmonitoringetc
7.	Infrastructure(Server/Cloud)	ApplicationDeploymentonLocalSystem/ CloudLocal ServerConfiguration	CloudFoundry

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	The proposed solution being framed in the form an android application providing the end user an easysurveillanceoftheirchildren(preferablyuser sare parents)	UI/UXdesigndevelopement
2.	SecurityImplementations	The developed application should be accessible in the way it can only respond to the comments of the relevant users	Encryptions,IAMControls.
3.	ScalableArchitecture	The app format comes the way easier to handle and operate	Not yet determined
4.	Availability	The developed solution tends to be available in the market at any time	Not yet determined
5.	Performance	Highly proper and betterment functionalities are to be ensured in the designed solution	Not yet determined