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

Date	03 October 2022
Team ID	PNT2022TMID00975
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Tracking
Maximum Marks	4 Marks

Technical Architecture:

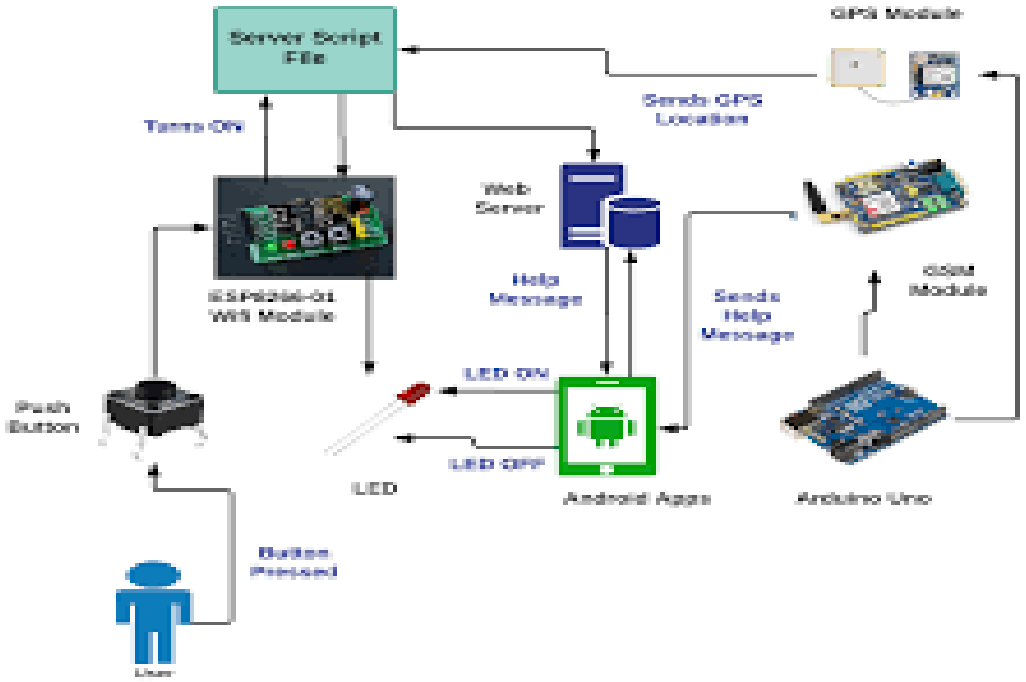

Table 1- Components and Technologies:

S.no	Components	Description	Technology
1	User Interface	Mobile Application	HTML, CSS, JavaScript
2	Application Logic-1	Logic for a process in the application	Java
3	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5	Database	Data Type, Configurations.	MySQL
6	Cloud Database	Database Service on Cloud	IBM Cloudant
7	File Storage	File storage requirements	IBM Block Storage
8	External API	Purpose of External API used in the application	Aadhar API, etc
9	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration	Cloud Foundry

Table 2- Application Characteristics:

S.No	Components	Description	Technology
1	Open-Source Frameworks	Open stack, Github.	Internet hosting service for software development and version control using Git
2	Security Implementations	Web Application Firewall(WAF)	AWS WAF, Cloudflare WAF
3	Scalable Architecture	By building articles and authors into a single query, the volume of queries can be reduced	IBM SQL.
4	Availability	The load balancer intelligently routes client requests to the right server, in a manner that maximizes performance and capacity utilization.	Web server, Load balancer
5	Performance	Caching, Asynchronous conditions.	Cache memory, Content Delivery Network.