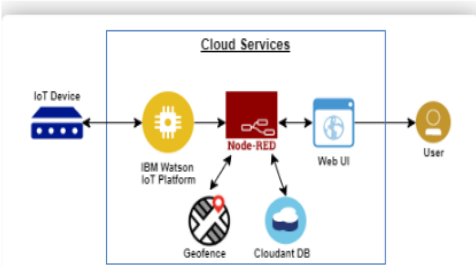


Project Design Phase-I Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID21372
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	A parent has to ensure the safety of his child from anywhere in case of need
2.	Idea / Solution description	<p>Three parts:</p> <ol style="list-style-type: none"> 1.Location tracking 2.Mapping the coordinates 3.Send the location to parents <p>STEP 1 Ways to achieve: Use GPS Module (with or without arduino) Ouput: Latitude and longitutde coordinates</p> <p>STEP 2 Ways to achieve: Websites to map the coordinates to actual location on map Eg: openweathermap Ouput: Geographical Location corresponding to the coordinates recieved</p> <p>STEP 3 Ways to achieve: Hardware-GSM/NodeMCU Software-Cloud Services Ouput: Location of child sent to parent</p>

3.	Novelty / Uniqueness	Parents will receive accurate location anytime anywhere
4.	Social Impact / Customer Satisfaction	Child Safety will be within reach for the parents Gadget will be childsafe and environment friendly
5.	Business Model (Revenue Model)	<p>Technical Architecture:</p>  <p>The diagram illustrates the technical architecture of the system. It features an 'IoT Device' on the left, which connects to a central 'Cloud Services' box. Inside this box, the data flows from the 'IoT Device' to the 'IBM Watson IoT Platform' (represented by a yellow gear icon), then to 'Node-RED' (a red square icon), and finally to the 'Web UI' (a blue square icon). Below 'Node-RED', there are two circular icons: 'Geofence' and 'Cloudant DB'. Arrows indicate bidirectional communication between 'Node-RED' and both 'Geofence' and 'Cloudant DB'. Finally, an arrow points from the 'Web UI' to a 'User' icon on the right.</p>
6.	Scalability of the Solution	Requires proper internet connection for working with cloud