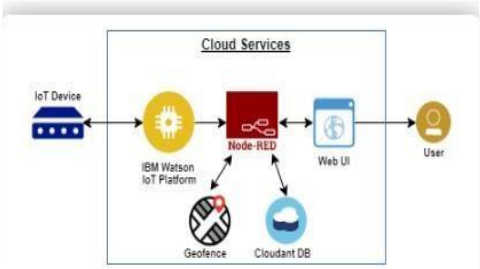
Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID11670
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	Three Steps: **1.Location tracking** **2.Mapping the coordinates** **3.Send message to parents** Step 1 generally requires a GPS module and the coordinates need to be updated periodically Here we are going to use an assumed longitude latitude location in python code Step 2 is done using world map node in NODE RED app facility in IBM Cloud that maps the coordinates on map as a pin location This location is also fed to geofence node that checks whether the location is within the radius or not Step 3 ensures message is shown if location is not inside geofence area For real world application GPS module can be given to children in form of watch or any other sophisticated gadget
3.	Novelty / Uniqueness	Parents will receive accurate location anytime anywhere (they will know if the child is in the geofence or not)

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)	Technical Architecture: 
6.	Scalability of the Solution	Requires proper internet connection for working with cloud