Project Design Phase-I Proposed Solution

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| Date | 31 October 2022 |
| Team ID | PNT2022TMID31414 |
| Project Name | IoT Based Safety Gadget for Child Safety  Monitoring and Notification |
| Maximum Marks | 2 Marks |

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| **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 |

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| 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) |  |
| 6. | Scalability of the Solution | Requires proper internet connection for working with cloud |