

## Project Design Phase-I Solution Architecture

Date	9 october 2022
Team ID	PNT2022TMID14548
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring
Maximum Marks	4 Marks

### Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- In the existing system, manual intervention is required. But In the proposing system, we make every action autonomously.
- This is used to develop a wearable device for the safety and protection of women and girls. This objective is achieved by the analysis of physiological signals in conjunction with body position. The physiological signals that are analyzed are galvanic skin resistance and body temperature. Body position is determined by acquiring raw accelerometer data from a triple axis accelerometer.
- In our system we use several components like
  1. Temperature sensor
  2. Pulse sensor
  3. GPS
  4. GSM
  5. Web camera
  6. Raspberry pi microprocessor
- It is difficult to monitor when there occurs any hindrance to satellite communication or any network issue. There also occurs time delay in video streaming through the server. Hence in the future, these issues can be overcome by using Zigbee concept or accessing the system without internet and using high-speed server transmission.

### Solution Architecture Diagram:

