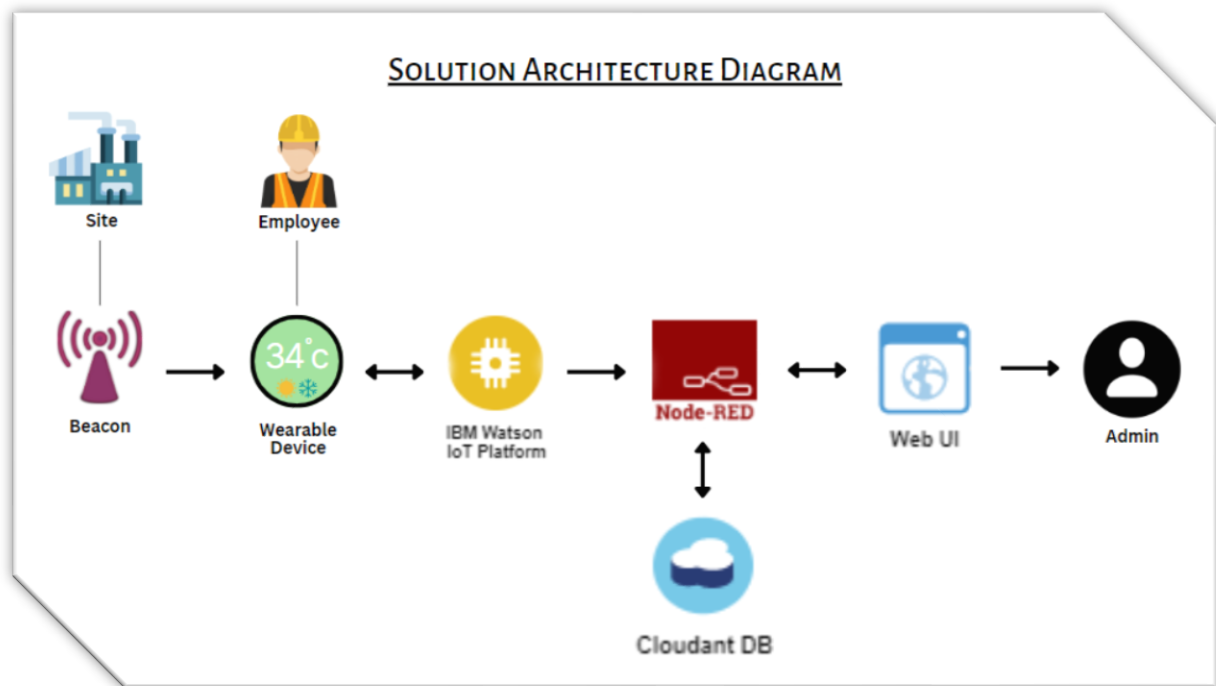


Solution Architecture

The solution architecture of a project that monitors (all) sites in a(n) (hazardous) industrial powerplant and intimates concerned personnel who are on or in range of a particular site, or are remotely observing and/or managing the same regarding the temperature of the site:



- **Site:** Each site has a beacon associated with it
- **Beacon:** Each beacon contains Raspberry pi, sensor, light, power source and other relatively minor components
- **Employee:** Each employee has a wearable device at all times
- **Wearable device:** This device will constantly show the temperature of the current site and intimate the user if the temperature rises or drops beyond normal levels that are set
- **IBM Watson IoT Platform:** It is a hub for all things IBM IoT. One can setup and manage all connected devices.
- **Node-RED:** Serves as a programming tool for wiring together hardware devices, APIs and online services
- **Web UI:** Serves as user interface
- **Cloudant DB:** Applications are created to interpret accessed data
- **Admin:** View gathered data and take necessary action if required.