# Serverless IOT with Data Processing

# PHASE-1

**Problem Definition:**

Health Monitoring for Elderly or Patients refers to the use of technology, often in the form of IoT devices and sensors, to track and monitor the health status and vital signs of individuals, particularly seniors or patients with chronic illnesses, in a non-invasive and continuous manner. This technology enables healthcare providers, caregivers, and the individuals themselves to receive real-time information about their health, allowing for timely interventions and improved overall care

**Design Thinking:**

* Define Use Case and Requirement: Clearly define the purpose of the health monitoring system. Determine which vital signs and activities you want to monitor (e.g., heart rate, blood pressure, activity level, temperature).
* Select IoT Devices and Sensors: Choose appropriate IoT devices and sensors based on the vital signs and activities you want to monitor. For example, you might use wearable devices like smartwatches or specialized health monitoring devices.
* Connect IoT Devices: Set up and connect the chosen IoT devices to a central hub or gateway. Ensure they can communicate with a cloud platform for data processing.
* Data Collection and Transmission: Configure the IoT devices to collect data at regular intervals (e.g., every few minutes). The data should be transmitted securely to a cloud platform for further processing.
* Choose a Cloud Platform: Select a cloud platform (e.g., AWS, Azure, Google Cloud) that offers services for IoT data ingestion, processing, and storage.