Summary:

Blockchain is an emerging technology which brings trust and transparency to the industry where the transactional processes are important. In this digitally transformation business, Internet of Things, or IoT, is another trending technology that helps collecting data from a number of devices. This code pattern introduces you to Hyperledger Fabric which is an open-source blockchain framework and Watson IoT platform by using Node-Red in order to store the upcoming data on a distributed network immutably.

Description:

While developing this code pattern, the goal has been set to design a proof of concept for both Blockchain and Internet of Things. Instead developing an application with full capabilities, this minimum valuable product is much more understandable and instructive. This code pattern can be extend and modify according to business model as adding new organizations to the distributed network, besides developing new smart contracts depending on the logic. In this code pattern, you will build a Hyperledger Fabric Network where you will store IoT sensor data, temperature, and a user interface where you can see the history of sensor variables.

When you have completed this code pattern, you will understand how to:

1. Set up an Hyperledger Fabric network
2. Design APIs with the Hyperledger Fabric SDKs to interact with the network
3. Collect data from the sensor, display it on the dashboard with Node-Red