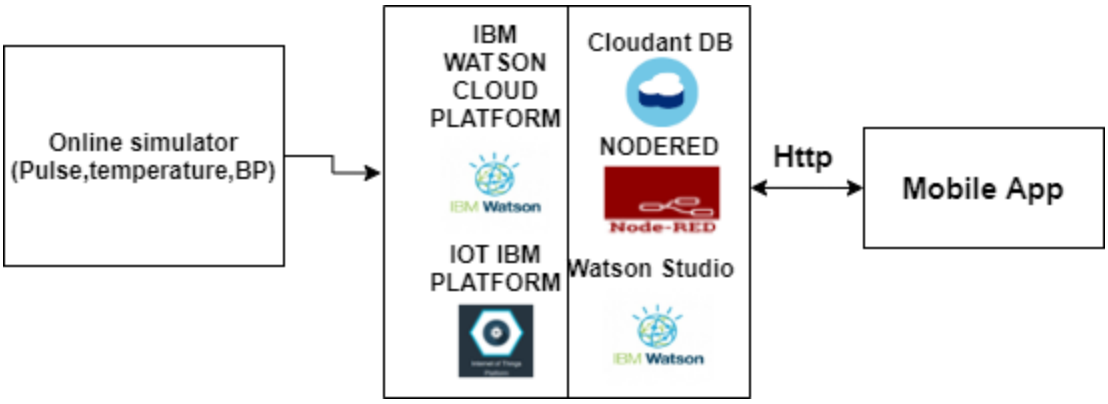
Project Title : Remote Health Monitoring System with Analytics Dashboard

Introduction: Remote health monitoring systems with analytics dashboard play a vital role which will help in early detection of the diseases which can reduce the suffering and medical costs. In this Health monitoring system we will be detecting the level of illness of the person and would recommend few medications using Machine learning and Internet of things tools.

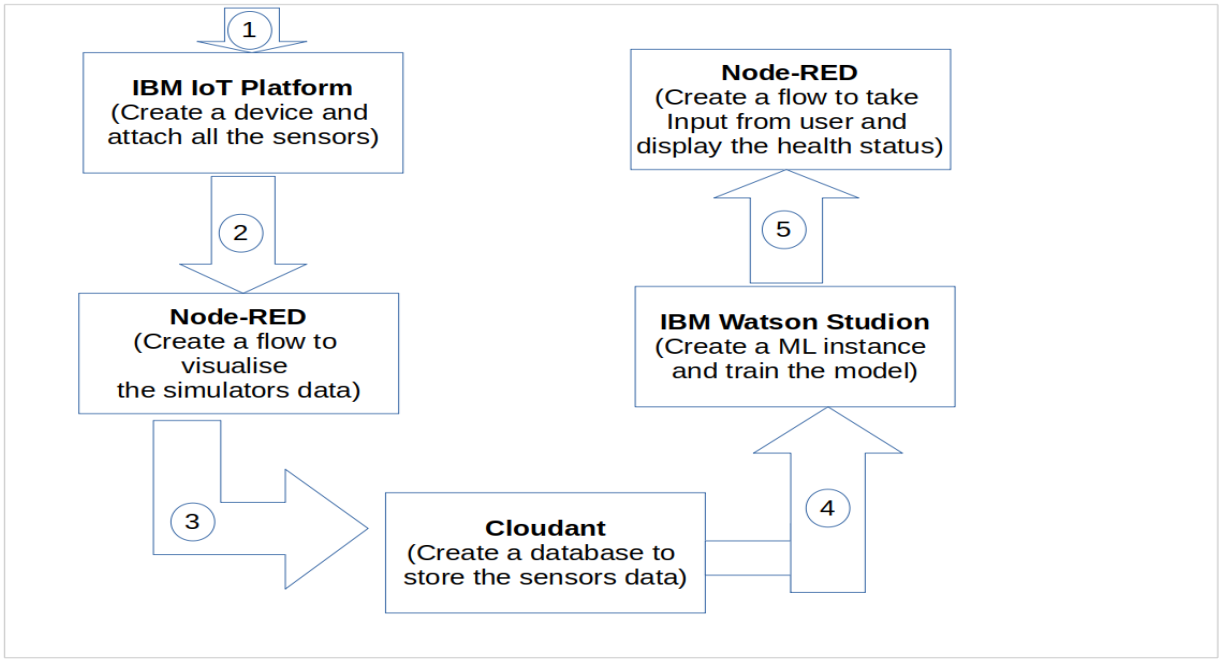
Required Services:

a) IoT Clod Platform
b) Node-RED
c) IBM Watson Studio
d) IBM Cloudant DB

Pictorial representation of the complete flow:



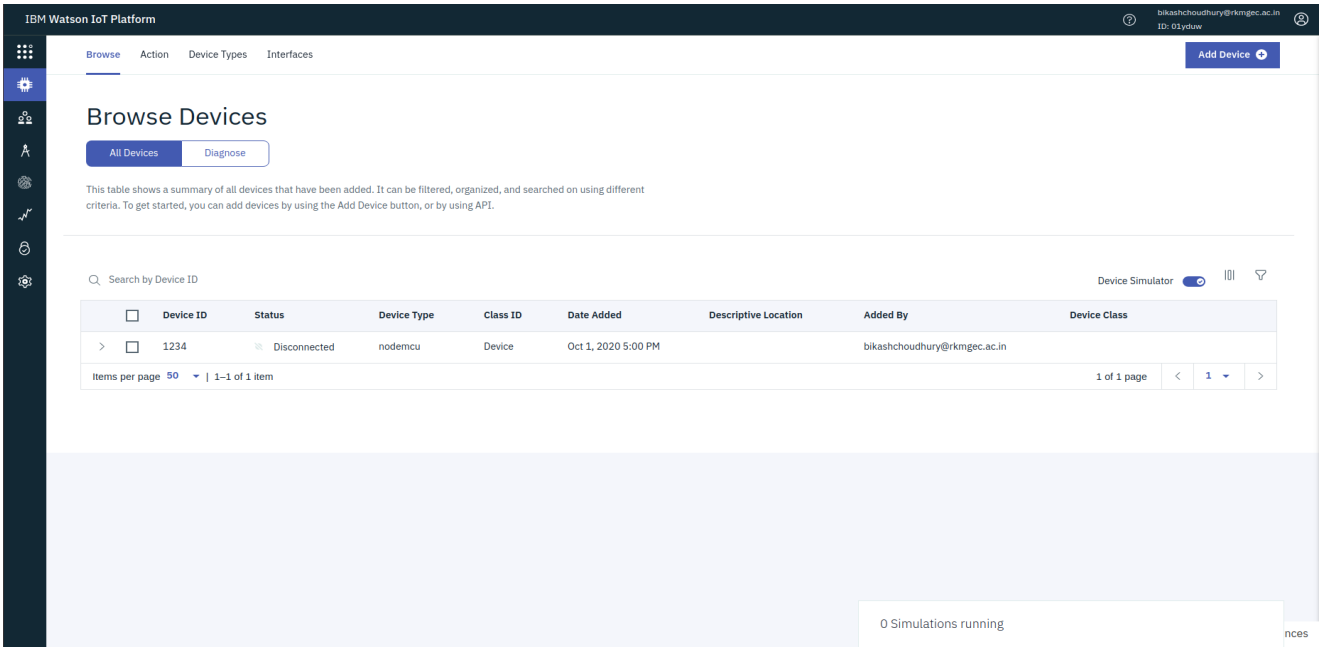
Block Diagram of the used Tools in the Project:



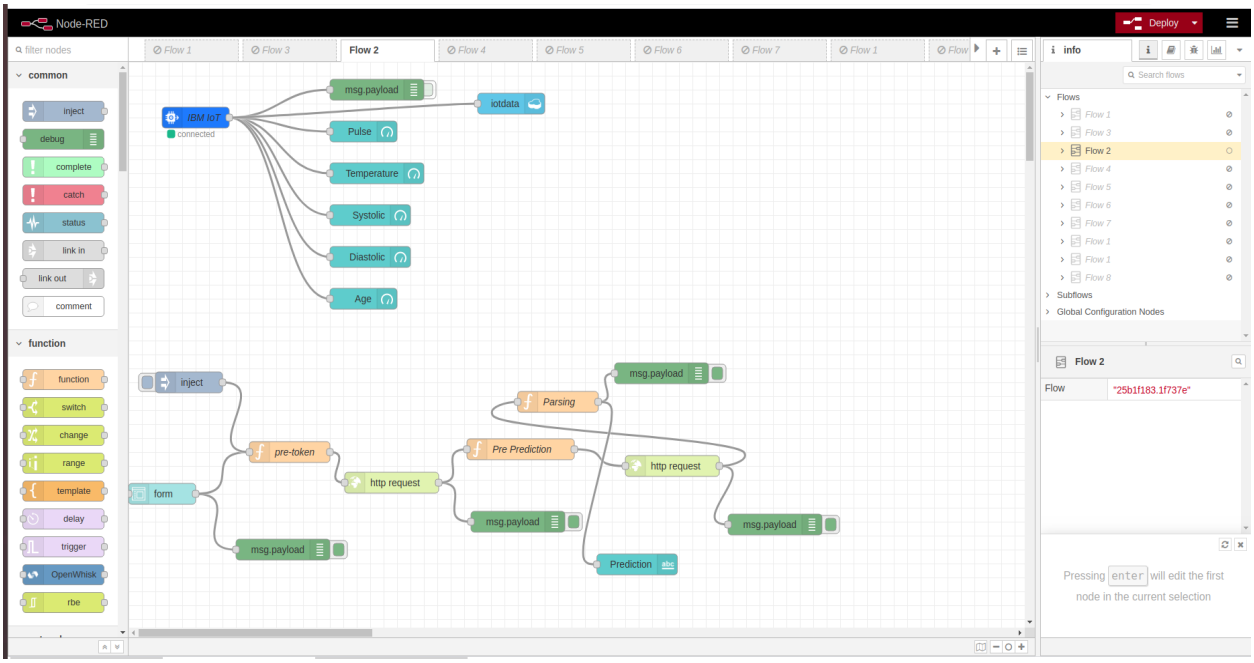
Details of the Project:

The details workflow of the projects are discussed below-

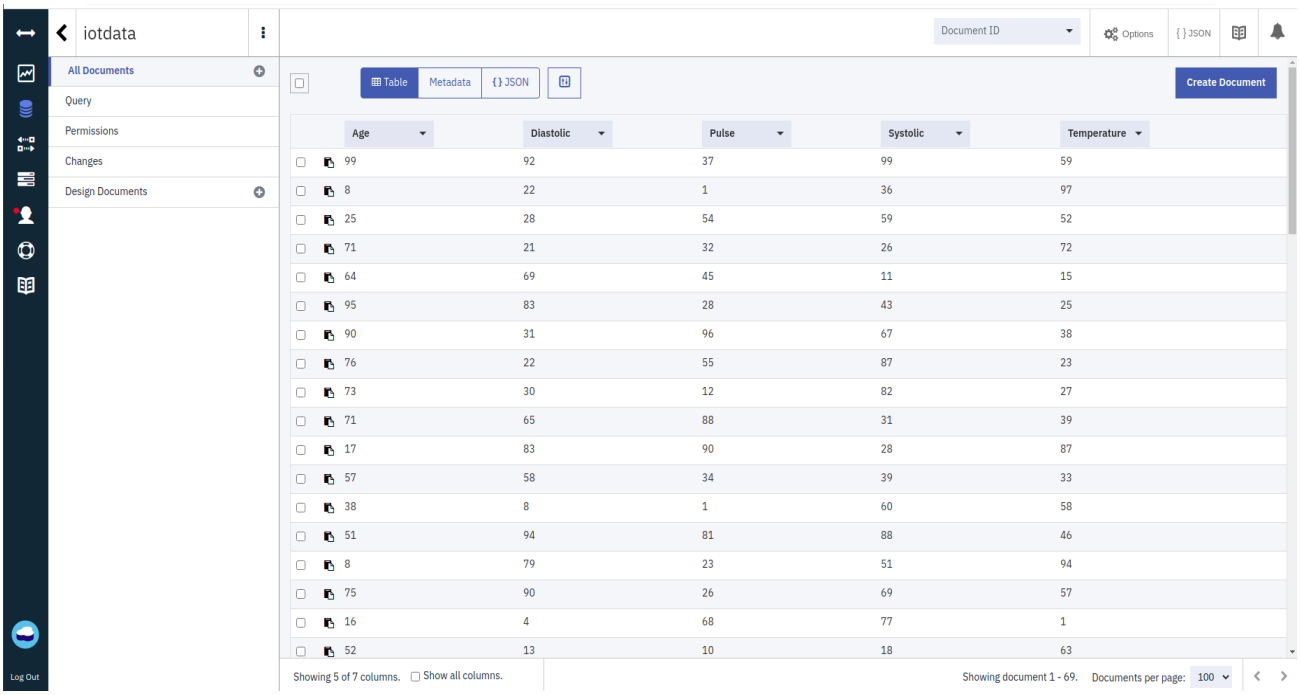
1. Initially we have to create a device using IBM IoT Platform and attached all the sensors (Temperature, Systolic, Diastolic and Pulse).



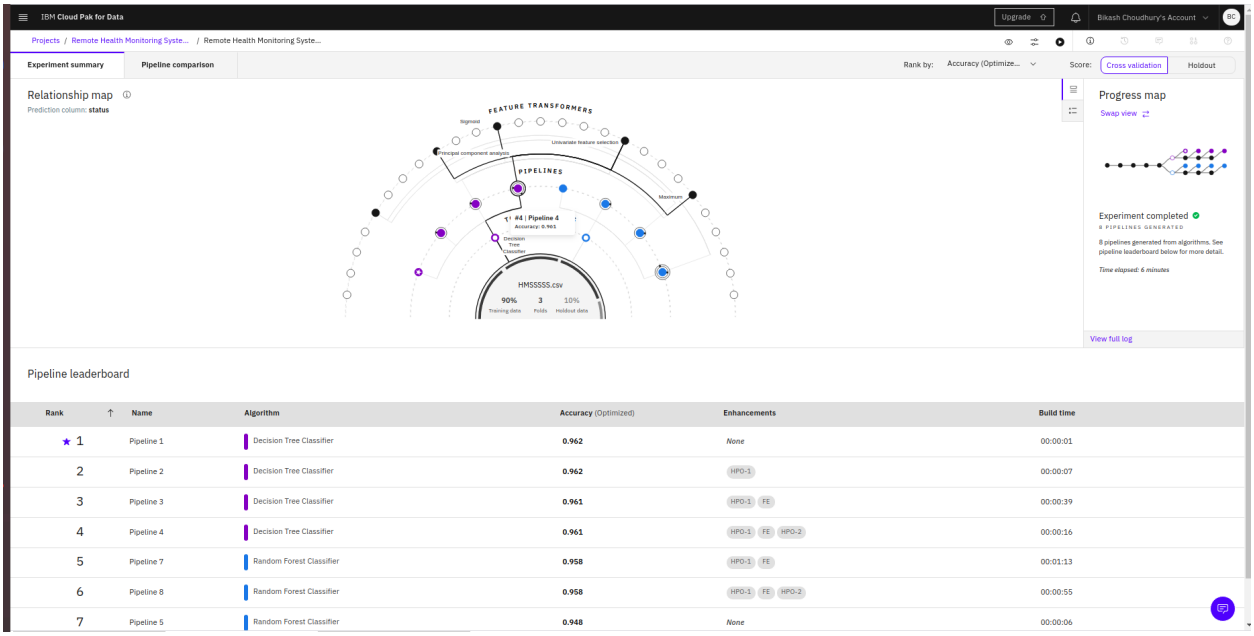
2. Next, to visualize the sensors data we have to create a flow in Node-RED

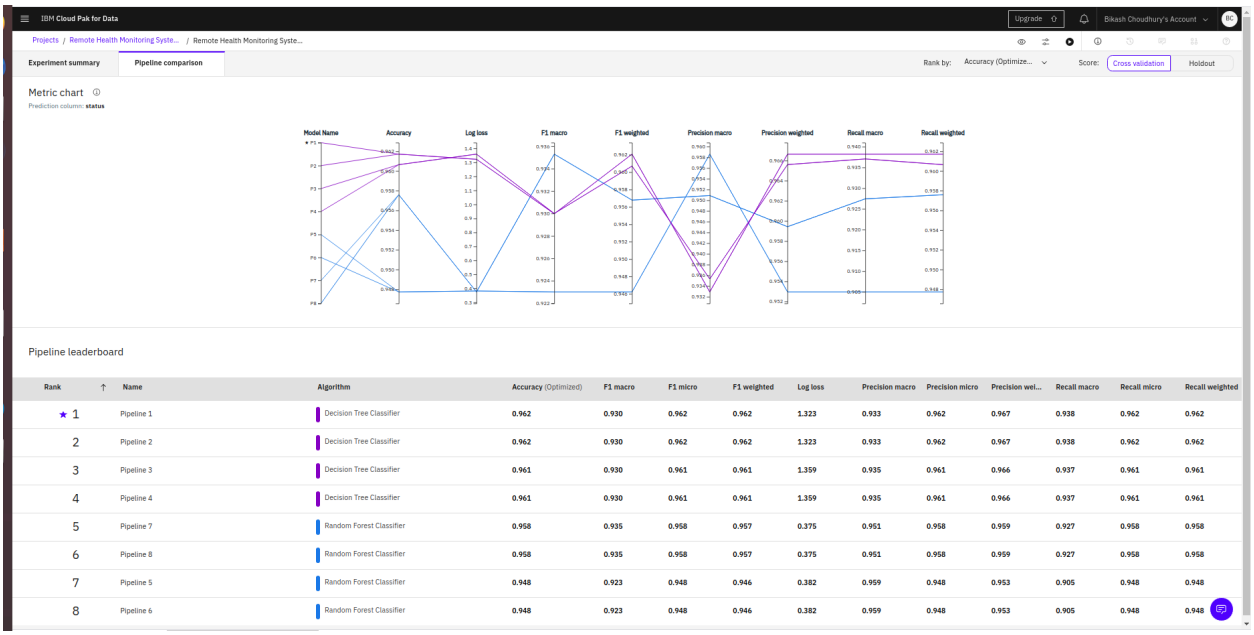


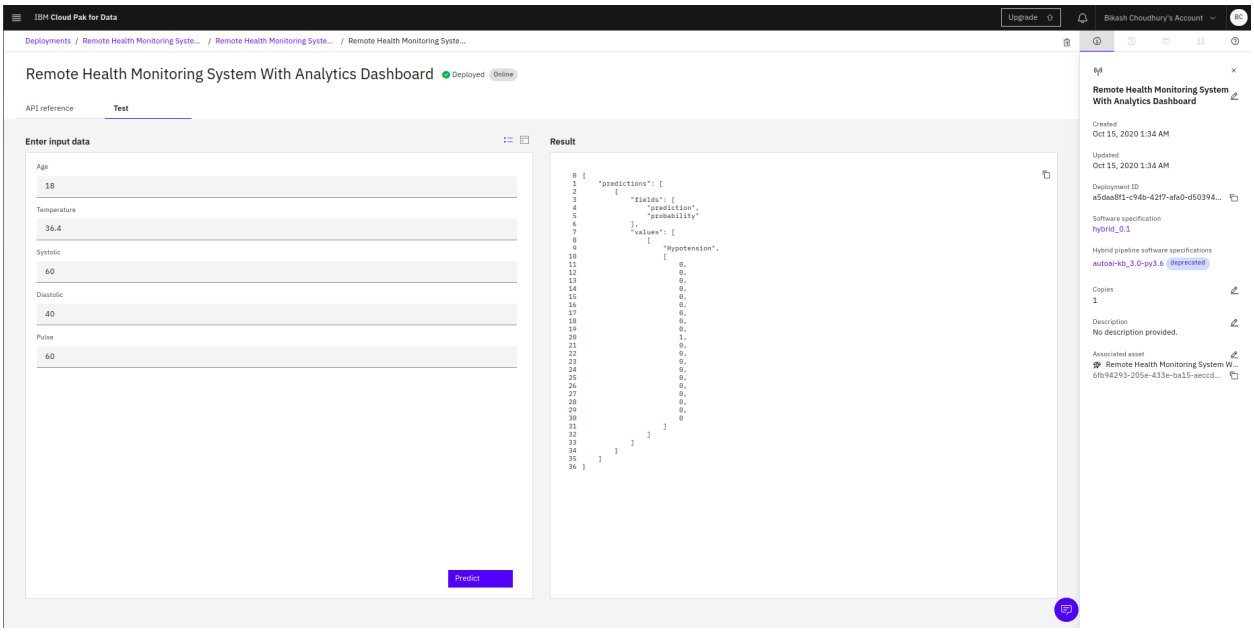
3. Next, we create a database using IBM Cloudant to store the simulated sensors data and attached in the created Node-RED flow.



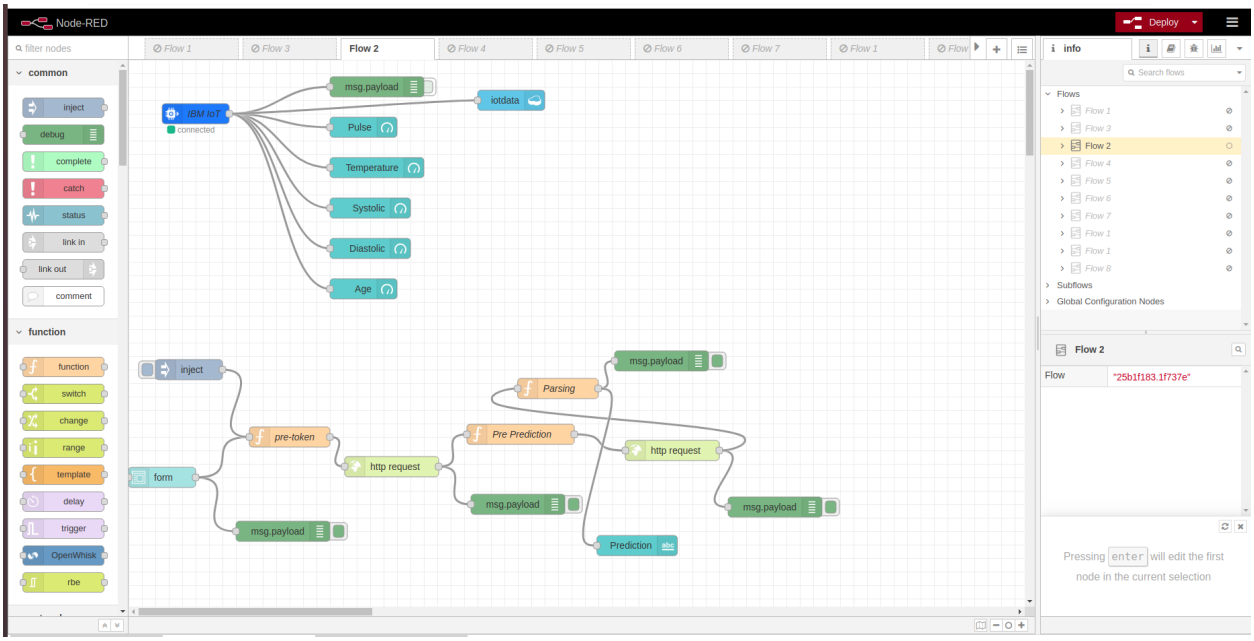
4. Next, we have to create a machine learning instance using IBM Watson Studio and trained the model using auto AI.





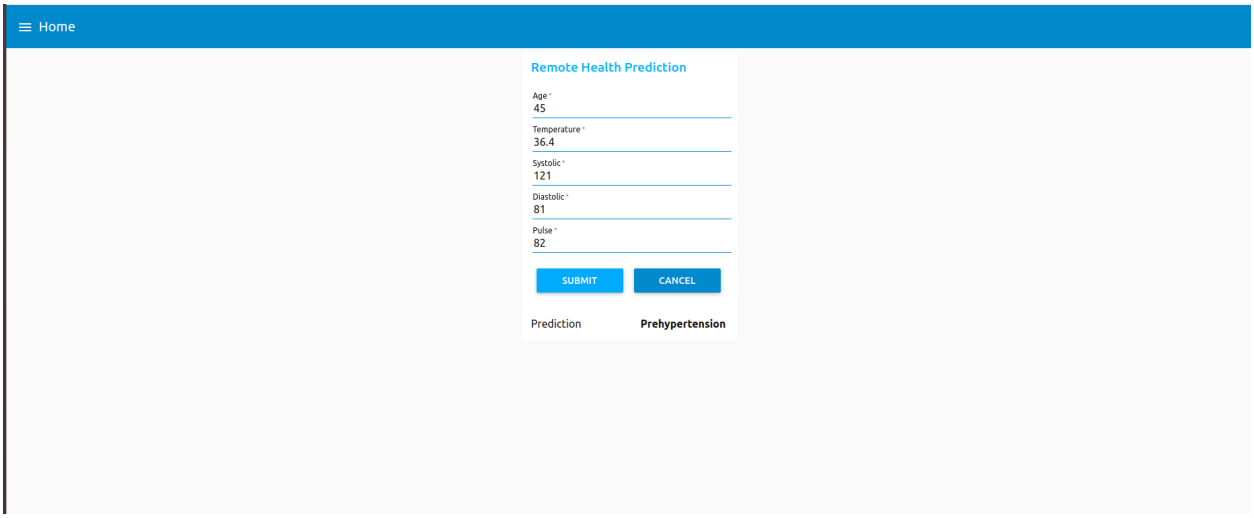


5. Create a flow in Node-RED to take the user health related parameters and display the present health status.



Output of the Project:

First output shows the sensors simulated data and second output shows the users present health status.



Summary:

In this project we have implemented a Remote health monitoring system with analytics dashboard using IBM Cloud services. The outcome of the project is an application which helps the user to predict their present health status. This application will help to reduce the time and cost of the users.