In the above section it is explained how to read data from sensor DS18B20. This part consists of data transmission to the server and also to show this data on a web service.

Amazon web services AWS EC2, AWS IOT and mongo dB is used for this purpose.

To send data from raspberry pi to AWS server backend language Node JS is used.

Saying more precisely Socket.io library of Node JS is used. Socket.io is a JavaScript library which is used for real-time web application.

It allows real-time communication between web server and clients. It has two parts, one is for client side.

It runs in the browser and other is for server side. Server side library is for node.js.

This sensor data is stored on cloud which is mongo dB based backend server known as mongolab (now known as mlab).

Mlab is well managed cloud based database service that hosts Mongo DB databases. To retrieve this data from cloud client side socket.io library of nodejs is used.

For front end of web service HTML, CSS, JavaScript and for map, google map Application program interface (API) is used.

Google map marker are used to show the location of installed sensor module.

When the condition at particular position reaches to an alarming level, image of marker is changed from ranger\_station.png (green color) to caution.png (red color).