Project Progress Report

Dynamic data monitor based on PIP Tag

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What we have done:

1. Set up the environment for PIP tag
   We have downloaded the code and set up g++ compiler to run the receiver code. And it runs smoothly on our Ubuntu system.

2. Built a basic http server
   We have built a static http server using java. It can handle basic requests and return a simple web page.

3. Materials reading for project
   Firstly, we have done the readings for building a server for our project using java, which includes the interfaces for socket programming and etc.
   Then we read the receiver code for PIP tag aggregation server, getting clear about the logic of the server and trying to send the data from aggregation server to our own built server.

What we are doing:

1. Modify the PIP tag receiver code to send the data collected on aggregation server to our own-built server.

2. Complete the coding of http server to make it handle data from our aggregation server.

3. Connect our server to a simple database.

4. Build a better UI to demonstrate our data from aggregation server.

Problems to solve:

1. Data processing: The raw data we collected from aggregation server contains lots of information, to better demonstrate it on our webpage, we need do some pre-processing.

2. Order of data: Since we send our data using http protocol, the package arrive at our server may be out of order. To demonstrate our data on web page in order, we need to build a database to reorganize the data.