

Defense of Open Curiosity software

WORK DONE BY:

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Hello, my name is Luis and I am the person responsible of the part of the software of Open Curiosity. In the next few lines, I am going to explain what was my work about, how I searched the information required to complete my work, how I used that information, the advantages and disadvantages of the web page and my personal opinion of this part of the project.

Introduction

First of all, my work consisted in doing a web page that showed the graphs associated to the reading of three sensors from the robot (temperature, pressure and distance), reading from serial ports real-time. This was my objective, but I have to say that at the moment, the application does not read real-time, but it reads from a text file. The entire work will be completed at future versions of the software. Nowadays, the project works the same except that the user has to move the temporal bar from left to right to appreciate how the rest of the graphs change.

Searching for information

For doing my work, I obtained the information by searching in google images "bargraph" (useful for building the core of the web page) and by searching in google "how to create a local server". I apologize for not remembering the exact sources of information.

Using the information

Firstly, I knew that I had to test the application in a local server, so I downloaded Wamp Server and I used Apache as manager database system. Then, I looked for a graph to reflect generic data on the Internet and I got a group that had three graphs linked to a temporal graph, and I thought it was ideal for my purpose. Then I changed the names and the ranks of the three graphs to adapt them to the average temperature and pressure of Zaragoza (the place from which we obtained the data). Finally, I changed the "look and feel" of the web page to make it more cozy and attractive.

Advantages and disadvantages

Advantages:

- Everyone can introduce the data collected by the robot in a database (a text file with 4 columns: date, temperature, pressure and distance).
- The three graphs corresponding to temperature pressure and distance show the appropriate values when you move from left to right in the temporal graph.

Disadvantages:

- The data is not collected real-time, but it would be in future versions.
- The temporal graph is not scaled well.

Personal opinion

This work was pleasant to me as I learned something more from the programming language javascript. I think it is not very well finished yet, but I am convinced that the final version will be more easy to use, more sightly and more useful to our purposes. We only need some more time to get these objectives.

Html document

file:///C:/wamp/www/temp/OpenCuriosity.html