AREP 3th Laboratory

Andres Villlamil

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1 Introduction

This laboratory intended us to create a java http server that is able to connect to a database, get information from ti and return it

2 Design

2.1 HTTPServer

This challenge was accomplished creating an httpserver that receives a http petition. It analyzes the petitions and looks up for information on the database, then send that info in an html to the client.

3 Structure

3.1 Java http server

The java http server opens a server port and waits for a client to ask something to that port. When it receives a petition, the server creates a thread to manage that petition. If it is a get petition, the server proceeds to look for the info on the db.

```
String[] users = db.consultarUsuarios();
    String res = createResponse(users);
    rFile = new File(res);
    respond(out, dataOut, rFile, "text/html", "200", res, outS);
```

Apart from this, it acts the same as the challenge 1 server.

If it is another get petition, it then tries to search for the file, if it is found, the server will give the client that file.

```
if (s[0].equals("ok")) {
    rFile = new File(ROOT+ s[1] + header[1]);
```

```
if (rFile.exists()) {
        respond(out, dataOut, rFile, s[2], "200", ROOT+ s[1] + header[1], outS);
    }
If the file does not exists, the server will return the "notFound.html".
    rFile = new File(ROOT, FILE_NOT_FOUND);
    respond(out, dataOut, rFile, "text/html", "404",ROOT+ FILE_NOT_FOUND,outS);
}
If the requested file is from a non supported media type, it will return the
"notSupportedMedia.html" file.
 else {
    rFile = new File(ROOT, UNSUPPORTED_MEDIA_TYPE);
    respond(out, dataOut, rFile, "text/html", "415", ROOT+ UNSUPPORTED_MEDIA_TYPE, outS);
   Finally if it is not a get petition, the server will return the method not_s upported.html.
 else {
    File f = new File(ROOT, METHOD_NOT_ALLOWED);
    respond(out, dataOut, f, "text/html", "405",ROOT+METHOD_NOT_ALLOWED,outS);
}
```

4 Conclusions

This first challenge completed. laboratory helped us to better understand how frameworks such as spring or spark work in the db connection aspect.

5 Bibliography

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