

Concurrent Server

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1 Introduction

This project is about an sparkweb framework implementation, being able to return static files like **html**, **images**, **css** and **js**. Using heroku deploy services the project can be accessed to be try it. Also an js application could be found which use a heroku database to persist the score board app.

2 Tools required

To be able to run correctly this app its necessary to have the next tools otherwise the program won't work correctly on a local mode

- Java 8 (Programming Language)
- mvn (Dependency Management)
- git (Versionament)
- Browser (Web browser to see the web app)
- JMeter (Applications test program)

3 Design

This app was building using a packet design where every part is stored in a different package (persistent, services,resources) to have good programming practices. Persistent package offers the connection to database to store the js app data. Services package is the main part of the program simulating the server to return the static files in the HttpServer. The HttpClient is designed to personally links, just like SparkWeb Framework works. Resources package renders the static files, making a search on the project files to return the files founded.

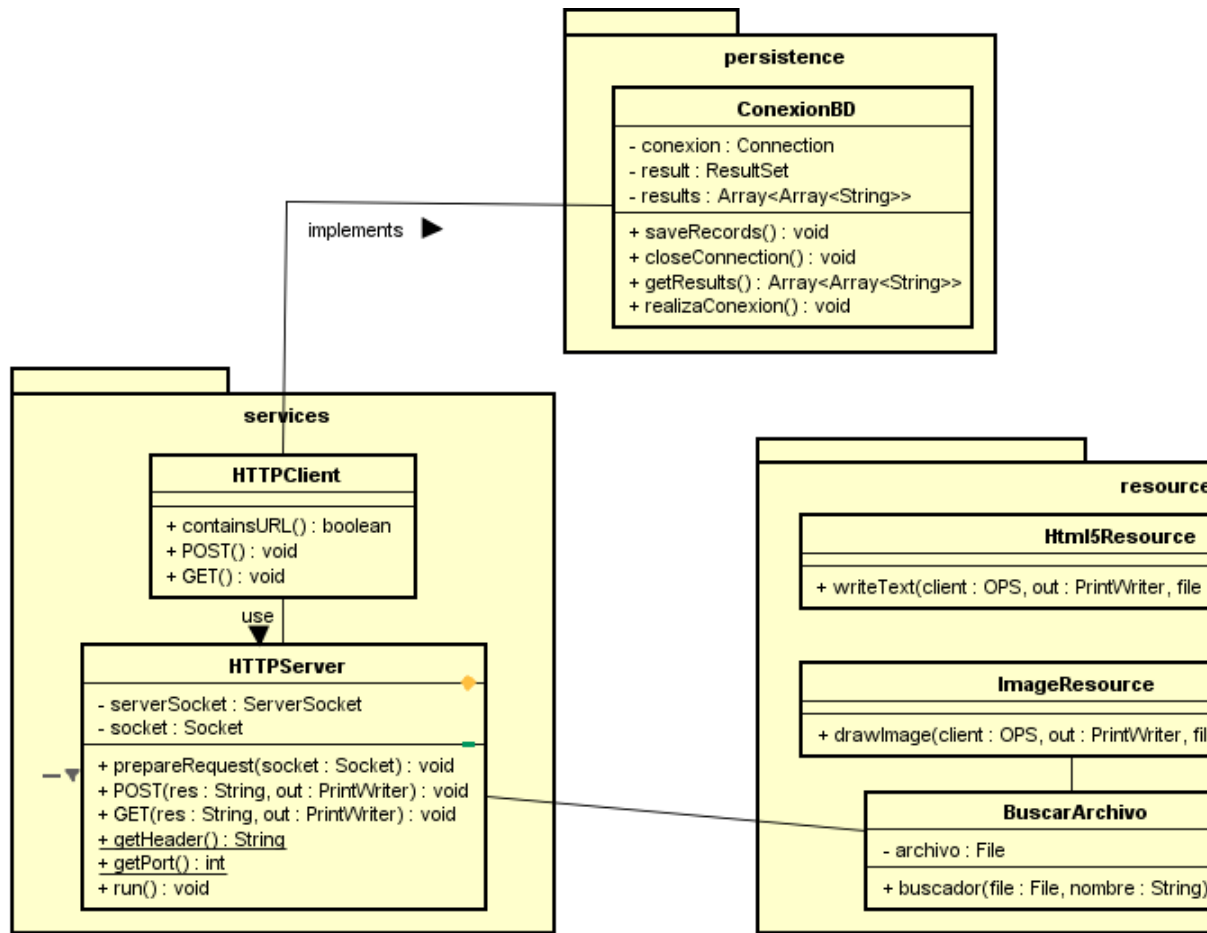


Figure 1: Class Diagram

4 Execution

To be able to run this program you have to download my github repository using the command:

git clone https://github.com/EdKillah/ConcurrentServer-AREP

after that you can access to the folder containing the proyect and running in your favorite IDE or using cmd with the following commands:

- **mvn package**
- **java -cp target-1.0-SNAPSHOT**
- **edu.escuelaing.arep.http.services.httpServer** and opening any browser and going to **localhost:32000**

Another alternative is using my heroku deploying going to the next link:

- <https://concurrentserver-arep.herokuapp.com/>

5 Conclusion

Using Java Sockets it is possible to create and simulate a real server able to return static files in a web page, using all the resources to give the most real experience. After building this project I did find the powerful help that frameworks brings to me instead of make an self implementation, frameworks give me the base for make my apps with no worries about the server and how it works.