

Web Server (September 2019)

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Abstract—This document defines the Web Services Architecture. It identifies the functional components and defines the relationships among those components to effect the desired properties of the overall architecture.

I. INTRODUCTION

Elaboration of Web server (Apache type) which receives multiple non-concurrent requests and makes a response in the form of HTML or jpg image, in addition to the above an IoC framework was constructed from POJOs.

POJOs are instances of classes that do not extend, or implements nothing, which allows for legibility and reuse of a program. Web servers can be of two kinds:

- Static: files are sent as they are soul- had dinner.
- Dynamic: They carry out operations with the data before send a reply to the client

Typically web servers such as Apache are used for the bigger application development but on this occasion we are going to describe the development of a web server in java.

II. SOFTWARE ARCHITECTURE

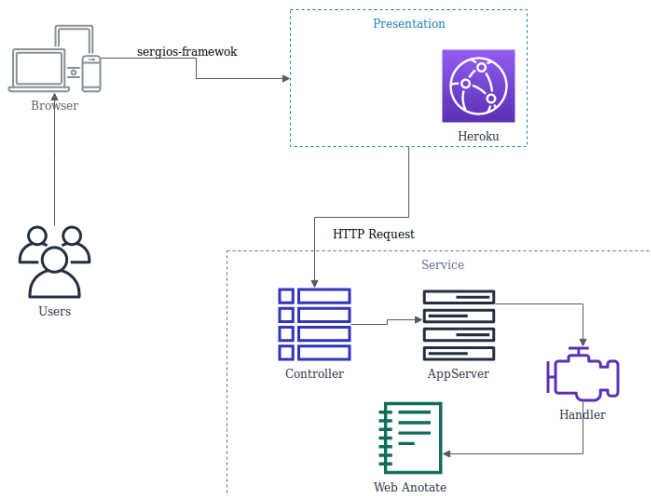


Fig. 1. Software Architecture Diagram

- Presentation: you will find the web application that is the interface with which the user interacts, this web application is finds deployed in heroku requests a resource either html, png or some method.
- Service: The service layer contains the frameworks and the web server, this calls the controller and connects with the application that provides the service that gives answer of a method or a resource, depending on the request.

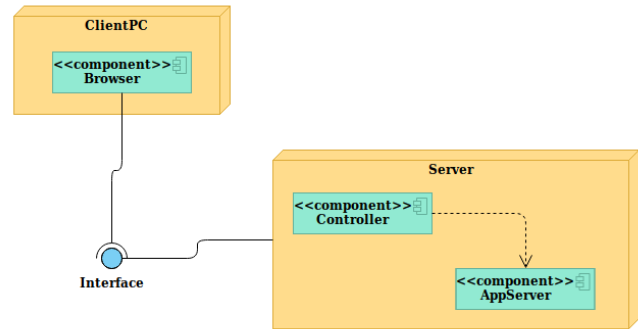


Fig. 2. Software Architecture Diagram

III. DEPLOYMENT DIAGRAM

The deployment of the web service was made in heroku according to the established requirements, this service is listened by port 4567, Heroku's default port, is divided into two modules, the first is the interaction that the user performs through the browser and the second module has as a component the web service and how it interacts with the other components.

IV. APPLICATION WEB

The web application was deployed in heroku which receives requests for port 4567, this application is built with Maven and use of POJOs Petitions you receive:

- Html
- JPG
- Add two numbers
- Test case
- or sergios-framework.herokuapp.com

V. ENTERPRISE ARCHITECTURE

Test Screenshots

VI. CONCLUSION

The use of POJOs notation allows us to understand how a web server is structured and how through these notes we can perform HTTP requests. Likewise, a web server could be made with the corresponding framework that allowed us to understand how work from the most basic functions, as it is, initialize the classes to generate the corresponding request made by the user.

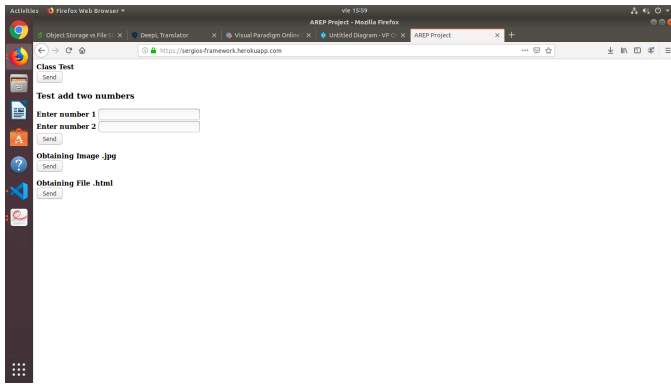


Fig. 3. Test 1

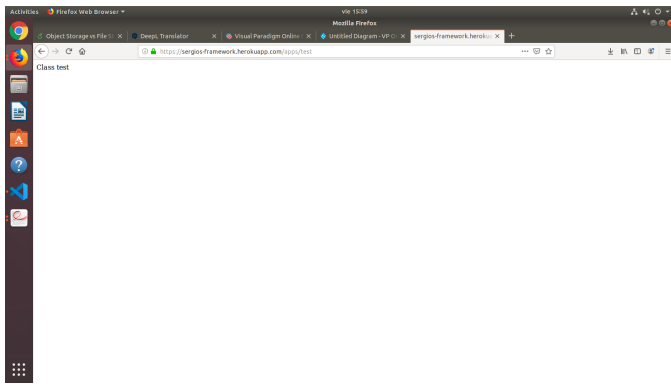


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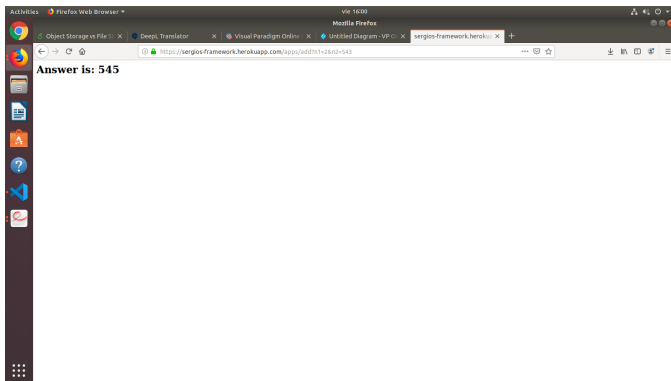


Fig. 5. Test 1

VII. REFERENCES

- Mara Estela Raffino. (2019). Servidor Web. 06 de septiembre del 2019, de Conceptos Sitio web: <https://concepto.de/servidor-web/>
- osgroup. Que es un servidor web. 06 de septiembre del 2019, de osgroup Sitio web: <https://www.osgroup.co/que-es-un-servidor-web/>

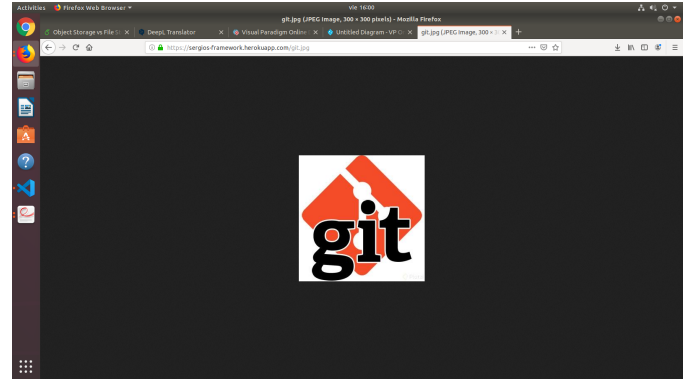


Fig. 6. Test 1

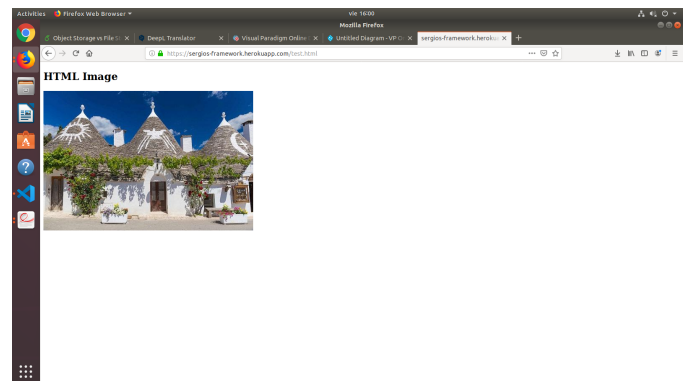


Fig. 7. Test 1