

Assignment 4 - Web services

Network Programming, ID1212

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1 Introduction

Goals:

- Develop a three-tier web-based application using frameworks
- Deploy and run a web-based application on an application server.

2 Literature Study

As in previous assignments, the main source were the video lectures on the topic and the example code.

3 Method

As in previous assignments, the mvc approach has been used again to layer the program.

The choice for a database fell on MySQL because of past works with it. The implementation was realized in Netbeans in Java 8 EE using Pyara as the application server.

4 Result

Link to public Github repository with code: <https://github.com/MemBernd/ID1212-Web-services>

4.1 Layering

4.2 Database

The database in ?? consists of two tables. The first table acts as a catalog, holding the different currencies, while the second one is the result of a many to many association of the catalog to itself.

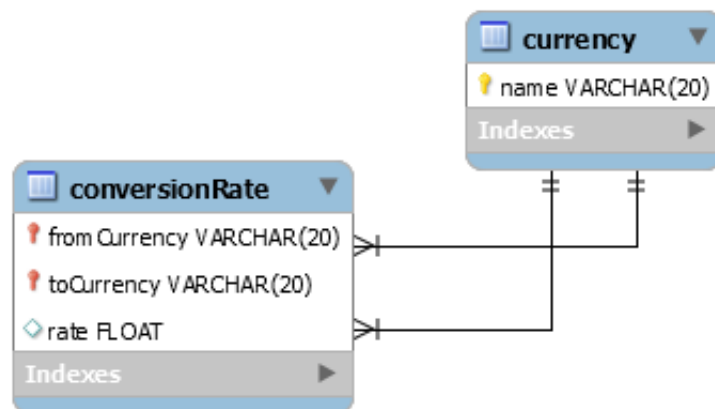


Figure 1: Table relations in database.

4.3 Frameworks

4.3.1 JSF

4.3.2 EJB

4.3.3 JPA

4.4

4.5 Client side

The user can access the application through a browser, which presents him with the jsf (see ??). The user is able to select between 4 currencies to convert between them. In case he selects the same currency, the application will return, hence show, the same amount as entered.

5 Discussion

6 Comments About the Course

The time invested in this project were almost 12 hours.

- 7h 35 min for coding.
- 1h 50 min for the report.
- 2h 40 min watching videos, taking notes and thinking about how to tackle the problem.

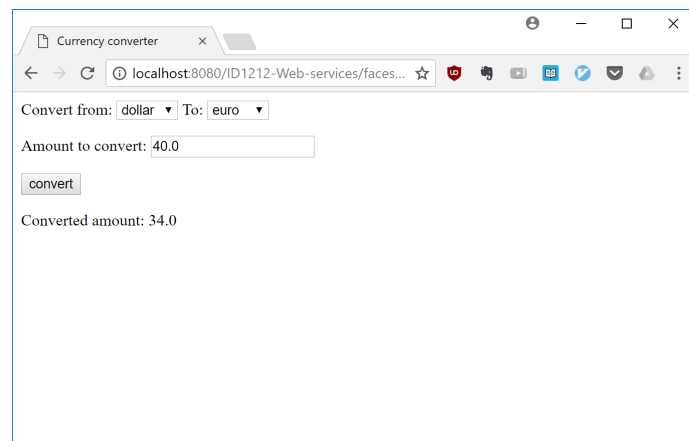


Figure 2: Browser interface