

# Delivery 2: Application Front End and Back End

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Computer Technologies for the Web

Course 2018-2019

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## Description

In this 2<sup>nd</sup> project delivery we will focused on integrating the application's front-end (already developed) with the back-end, which will be developed in the following weeks.

- To save and recover the data, the students will have to use the **JDBC and JPA APIs** on a MySQL database engine. The students can choose the percentage of usage of each technology, but both of them will need to be used in the project.
- Regarding the messaging service, students have to use **JMS technology**. Students will decide the message's content and configuration.
- The final product will be a fully functional system that will include all steps listed in the general description of the course. It will be composed of **two software projects**: (i) the first one is focused on generic users and (ii) the second one is centred on the administrator user.
- The payment process will be simulated following this schema:
  - The user sends a booking request to the host, including the payment information. This message will be sent using JMS
  - The host will accept or reject the booking request. In both cases, a message should be sent back to let the user know about the result of his/her request. In the case of a positive response we will consider that the payment has been automatically processed. This means, it is not necessary to develop a payment gateway.

Please remember:

- You have to submit the database design sketch, including all the tables, relationships, fields, and data types.
- Also it is necessary to submit an SQL script with a set of data to allow the teacher to test your application.

## Delivery

- **Last day: 18/11/2018**
- A designated member of each group will deliver through Aula Global all the required files compressed in a single .zip or .rar file
- The name of the file should follow this format:

GR89.XX.Practice2.zip

where XX corresponds to the group identifier number

IMPORTANT. Files delivered by email will not be accepted under any circumstance.

The .zip o .rar file should include:

- **All the .war or .ear files requires to run the application.** The project should include all the source files to allow the teacher to examine the code.
- The documents with the **project planning** and the division of tasks. The workload of each member of the group should be clearly specified.
- **DB model:** Screenshot or image of the DB diagram, containing all the database tables, columns and relationships. It is highly recommended to use MySql Workbench or a similar program to generate the image.
- **Script SQL.** SQL file for creating the database and insert some data for testing.

The teacher will agree with each group a date and time to carry out the defence of the project delivery. All the members of the team should be present during the defence.