

## Weather Application

**Theme:** Practical Assignment N.2

**Deadline:** 18/12/2018

### 1 Objective

The objective of this work is to implement an online weather application to store weather data.

### 2 Details

The constant miniaturization of devices, together with the increasing importance of getting information about the weather forecast, contributes for the increasing access to weather parameters anytime, anywhere. Moreover, the record and maintenance of a history of weather parameters allows building correlation between different variables. The purpose of this assignment is to develop a web application based on two main modules: the server, built according to a component based development paradigm and that runs on a remote host, and the client, that will access the system.

Extra points will be granted according to the functionality implemented. It will also be valued the development of rich user interfaces.

### 3 Minimum requirements

1. The practical assignment can be implemented in groups up to 2 students
2. The programming language has to be Java
3. The application has to be implemented in Enterprise Java Beans (EJB) and Java Persistence Architecture (JPA)
4. As proof, the client should run on PC
5. The server has to be executed in a different host of the client, using the following command:  
\$ ./gradlew server
6. The client has to be executed in a different host of the server, using the following command:  
\$ ./gradlew run

### 4 Extra points

Extra points will be granted if the system could be accessed from mobile platforms. Conceptually, it will be valued the use of software engineering methodologies.

## 5 Deliverables

1. All the material should be submitted through the Virtual.IPB platform, in the “Practical Assignments” section
2. Report in PDF
3. Compressed archive with source code directory