

Lecture 4

Lab - Spring 101

4.1 Pre-tasks

If you would like to use an IDE to develop using Spring you probably want to install the Spring Tool Suite from <https://spring.io/tools/sts>. Otherwise, you will need to install Maven to build your app (<http://maven.apache.org>).

You should also clone the course bitbucket repository available at <https://bitbucket.org/jacome/iadi>. Inside it, you can find a project example to guide you through the first lab session (folder `ciai-lab1`).

4.2 Task 1 - Do It Yourself!

The goal of this task is to develop an application that allows to register hotels through a form. All the registered hotels should be kept while the app is running. The following features should be available:

- Add a new hotel with attributes *name*, *location*, *number of stars*, and *number of rooms*. This gives you the model structure you need for your MVC application.
- View the details of a specific hotel.
- Edit the attributes of a specific hotel.
- List all existing hotels.

Thus, the application should handle the following requests:

- `/new`, through GET (it necessary to write a controller method), to show the form to add the new hotel through a view termed *new_hotel*;
- `/new`, through POST (it necessary to write a controller method), to save the hotel information and show it through a view called *added_hotel*;

- `/hotels`, through GET (it necessary to write a controller method), to show all the existing hotels through a view termed *hotels*; this view should also include a link to add a new hotel;
- `/view/<hotel_id>`, to view a particular hotel;
- `/edit/<hotel_id>`, to edit the data of a particular hotel;

In fact, this describes most of the structure your application should have.

You should develop your application incrementally, that is, step-by-step. Indeed, you should start by creating and handling the form. Only after this you should care about the persistence of the information. Do not forget to add tests to your app!

You can and should use the `pom.xml` file from the application we gave you.