

## **Business Systems (Sistemas de Negocios) 2015**

### **Lab 2:** First step in developing a business app for Django.

In this practice, you will begin to write django applications as well as start your first application. By the end of this lab, you should have acquired the following skills/knowledge:

- start a django project
- build a basic application
- design and develop a model
- test a model
- have a basic view using a template and view model
- Use Bootstrap
- Begin a model for your “test business”

#### **1. Follow class notes to Build a Simple Model:**

Follow each of the steps presented in class to be able to implement do a “signup” app. The goal is to be able to have a simple webform that will allow you to store data on the webserver and see the data in the admin app.

#### **2. Duplicate the results from the class notes with Bootstrap**

You should follow each step in the class notes, continuing with the project that you created last week. The objective is to be able to utilize the Bootstrap framework seamlessly into your project. Investigate how customization can provide a unique web experience.

### 3. Develop a product catalog application for your “virtual business”

In this part of the lab, you will begin to develop a more serious application using python/Django. For this, first develop a data model for the products of a business. You will only need to think about how to represent the products. For now, you will just write the “model” for the business, however, you might need to think about how a user will interact with this data in the “view”. Later you will build upon this model to create a more complete application.

You may want to choose amongst the following types of businesses to design your catalogue:

- a bookstore; catalogue could contain books, paper goods, etc.
- a hardware store: catalog of tools, construction equipment etc.

Other businesses include: a pharmacy, a jewelry store, a clothing store, a perfume store, a car dealership, a sports store, a mobile telephone store, a computer equipment store, or a consulting firm.

You should proceed as follows:

1. Select a business that most interests you.
2. Draw an E-R diagram for your product
2. Develop the model in Django by writing a class in **“model.py”**. Register this model by synchronizing to the database (with command: `python manage.py syncdb`)
3. check in the /admin that your model has been registered and new data appears when entered from the admin web app. Next week, you can provide a “views” to be able to enter this data from a webpage.