

# Roadmap of this lesson

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This document describes the roadmap of Lesson L06 – Controllers. For each session in this lesson, we describe the activities that we're going to carry out or the requirements that you're expected to have fulfilled. We strongly recommend that you should follow this roadmap very carefully; otherwise, it'll be very difficult for the lecturers to help you.

## All levels

### December 1, 2015

#### *S01 – Theory*

### December 3, 2015

#### *S02 – Problems*

## Level C



### December 10, 2015




#### *S03 – Project work*

- A user who is not authenticated must be able to:
  - o Register to the system as a consumer.
- A user who is authenticated as a consumer must be able to:
  - o Do the same as a user who is not authenticated, except for registering to the system.
  - o Display his or her shopping cart.
- A user who is authenticated as an administrator must be able to:
  - o Do the same as a user who is not authenticated, except for registering to the system.
  - o Manage the catalogue of items, which includes creating, updating, and deleting them. Note that items are never actually deleted, but marked as deleted. Items that are marked as deleted aren't displayed in the catalogue of items and, obviously, cannot be ordered.

### December 15, 2015




#### *S04 – Project work*

- A user who is not authenticated must be able to:
  - o List the catalogue of items grouped by their categories. 
-  A user who is authenticated as a consumer must be able to:
  - o Add an item to his or her shopping cart. If an item is added to a shopping cart that already contains that item, the quantity must be updated accordingly.
  - o Change the quantity of an item in his or her shopping cart.
  - o Delete an item from his or her shopping cart.
  - o Add, modify, or delete a comment to his or her shopping cart.
- A user who is authenticated as an administrator must be able to:

-  Manage a table of taxes, which includes creating, updating, and deleting them. Only taxes that have never been used in an item can actually be deleted.
-  Manage the catalogue of categories, which includes creating them, listing them, modifying them, and deleting them.
  - List the consumers that are registered in the system.
  - List the orders that have been placed in the system. 

## December 17, 2015

### *S05 – Project work*

- A user who is not authenticated must be able to:
  -  Search for an item using a single keyword that must appear verbatim in its SKU, its name, or its description.
- A user who is authenticated as a consumer must be able to:
  -  Check his or her shopping cart out and place the corresponding order.
- A user who is authenticated as an administrator must be able to:
  -  Display a dashboard with the following information:
    - The consumer/s who has/have placed more orders.
    - The consumer/s who has/have spent more money on their orders.
    - The best-selling item/s in the inventory.
    - The worst-selling item/s in the inventory.

## December 22, 2015

### *S06 – Project work*

- Demonstration and final feedback.
- Production, verification, and delivery of your work.

## Level B

## December 10, 2015

### *S03 – Project work*

- Today's requirements regarding Level C.
- A user who is authenticated as a consumer must be able to:
  - Cancel an order, as long as no clerk has self-assigned it.
- A user who is authenticated as a clerk must be able to:
  - List the warehouses and navigate to the items that they store.
  - Search for the warehouses that have at least one unit available of a given item.
  - Self-assign an order to serve it. (Obviously, the system must guarantee that every order is finally served by a unique clerk.)
- A user who is authenticated as an administrator must be able to:
  - Register a new clerk to the system.
  - List the warehouses and navigate to the items that they store.


## December 15, 2015

### *S04 – Project work*

- Today's requirements regarding Level C.
- A user who is authenticated as a clerk must be able to:






Remove some units of an item from a warehouse to serve an item in an order. The same item may be served from several warehouses. For instance, if an order request two units of an item, each unit may be served from a different warehouse.

- A user who is authenticated as an administrator must be able to:
  - Register a new warehouse to the system.
  - Modify, update, or delete a warehouse. 
  - Change the quantity that a warehouse stores of a given item.

## December 17, 2015

### *S05 – Project work*

- Today's requirements regarding Level C.
- A user who is authenticated as a consumer must be able to:
  -  After he or she logs in to the system, it must show one of the best-selling items and offer to add a unit to his or her shopping cart.
- A user who is authenticated as a clerk must be able to:
  -  Mark an order as delivered when all of the items have been served.
- A user who is authenticated as an administrator must be able to:
  -  Display a dashboard with the following information:
    - The clerk/s who has/have served and delivered more orders.
    - The clerk/s who has/have served and delivered less orders.
    - The consumer/s who has/have cancelled more orders.
    - The consumer/s who has/have cancelled less orders.
    - The ratio of orders that have been cancelled during the current month.

## December 22, 2015

### *S06 – Project work*

- Demonstration and final feedback.
- Production, verification, and delivery of your work.

## Level A


## December 10, 2015

### *S03 – Project work*

- Today's requirements regarding Level B.
- Every user, including users who are not authenticated, must be able to:
  - List the comments that are associated with an item.
  - Create a new comment regarding an item.

## December 15, 2015

### *S04 – Project work*

- Today's requirements regarding Level B.
-  Every authenticated user must be able to:
  - List his or her message folders, and display the messages that they contain.
  - Manage his or her folders and messages.

## December 17, 2015

### *S05 – Project work*

- Today's requirements regarding Level B.



A user who is authenticated as an administrator must be able to:

- Delete a comment.
- Display a dashboard with the following information:
  - The item/s that has/have more comments.



The system must store an exchange rate table in which the exchange rate of several currencies is stored. All rates must be stored regarding Euros, which is the currency that is used internally to store prices. Wherever a price is displayed, the user must be able to select the currency in which he or she wishes it to be displayed. By default, the system must store an exchange table that includes at least Spanish Pesetas (ESP), French Francs (FRF), Italian Liras (ITL), German Marks (DEM), and Portuguese Escudos (PTE).

## December 22, 2015

### *S06 – Project work*

- Demonstration and final feedback.
- Production, verification, and delivery of your work.

## Level A+

## December 22, 2015

### *S07 – Project work*

- Today's requirements regarding Level A.
- Requirements for level A+, as described in the corresponding statement.