

Assignment 1

Server Side Technologies – SE4

Manuel Escrig Ventura (A00180182)

GRAILS WEB APPLICATION (WEB STORE)

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manuelescrig@gmail.com

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1. Introduction

The goal of this assignment is to develop a web application using Grails. We expect to have 3-5 domain classes in the application including test cases for your domain classes.

In this case I have developed a Web Store, I choose a this application because I have in mind to finish this application with more classes and controllers and uploaded to a web server so it can be online and it can be something useful.

To develop this project I have been using STS (SpringSource Tool Suite) for Mac OSX and the version of grails is 1.3.7.

List of domain classes:

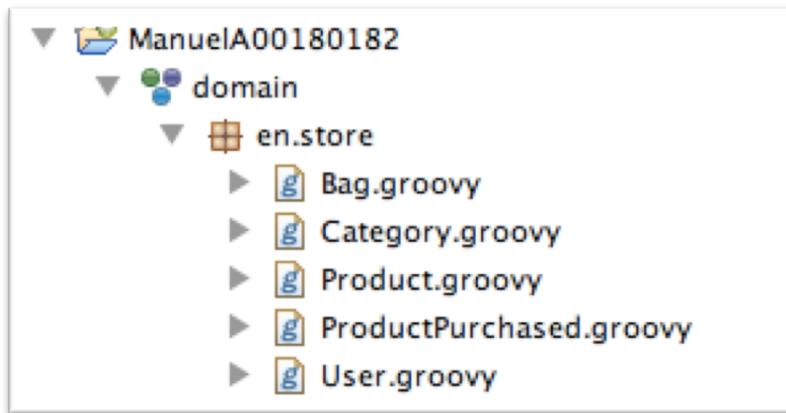


Figure 1 - List of domain classes

List of domain controllers:

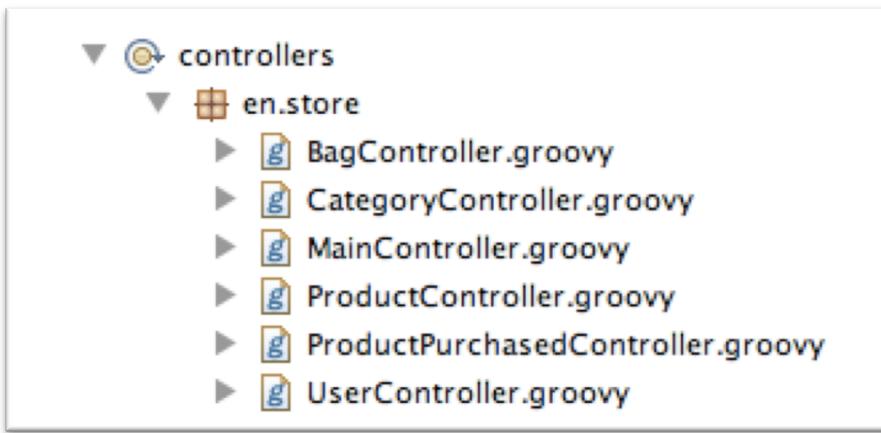


Figure 2 - List of domain controllers

List of views:

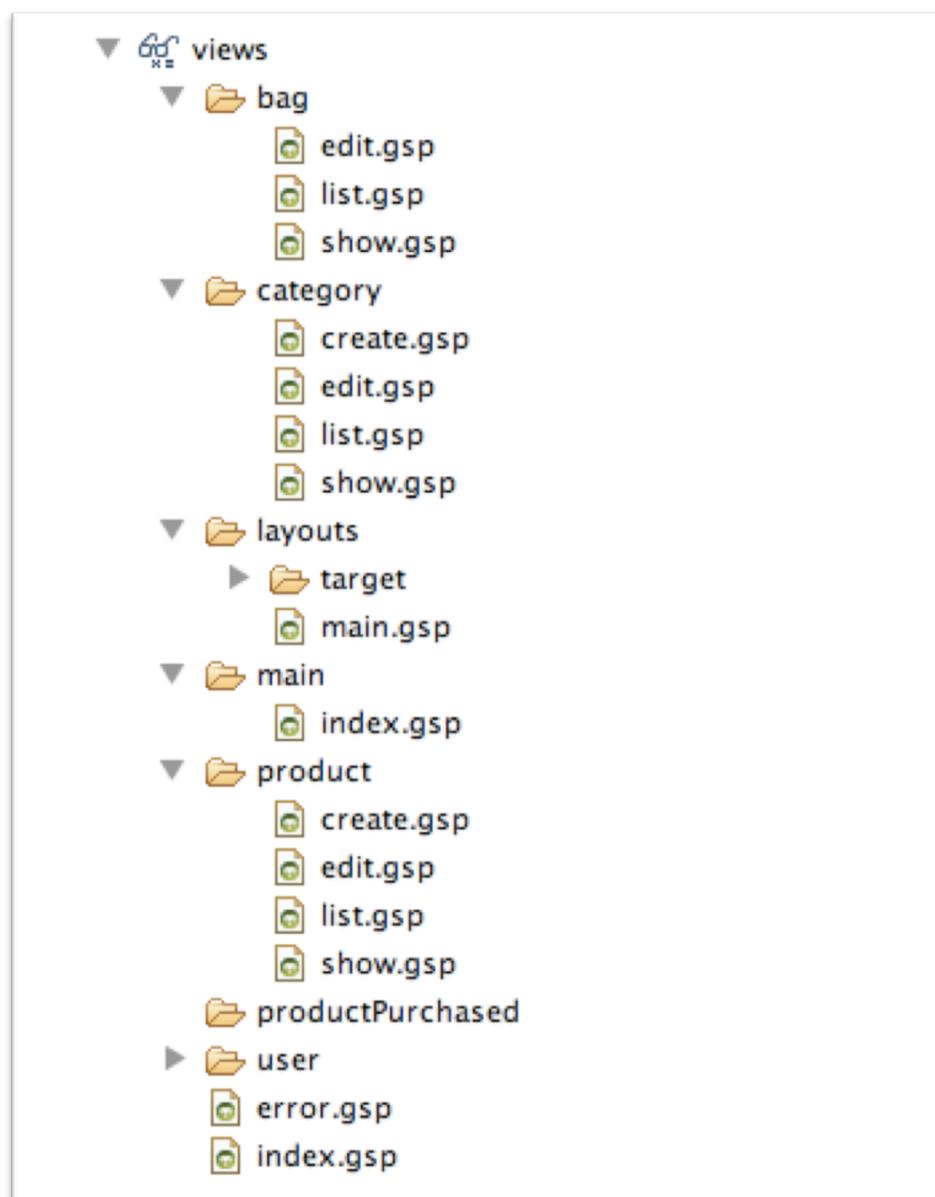


Figure 3 - List of the views

2. Screen shots.

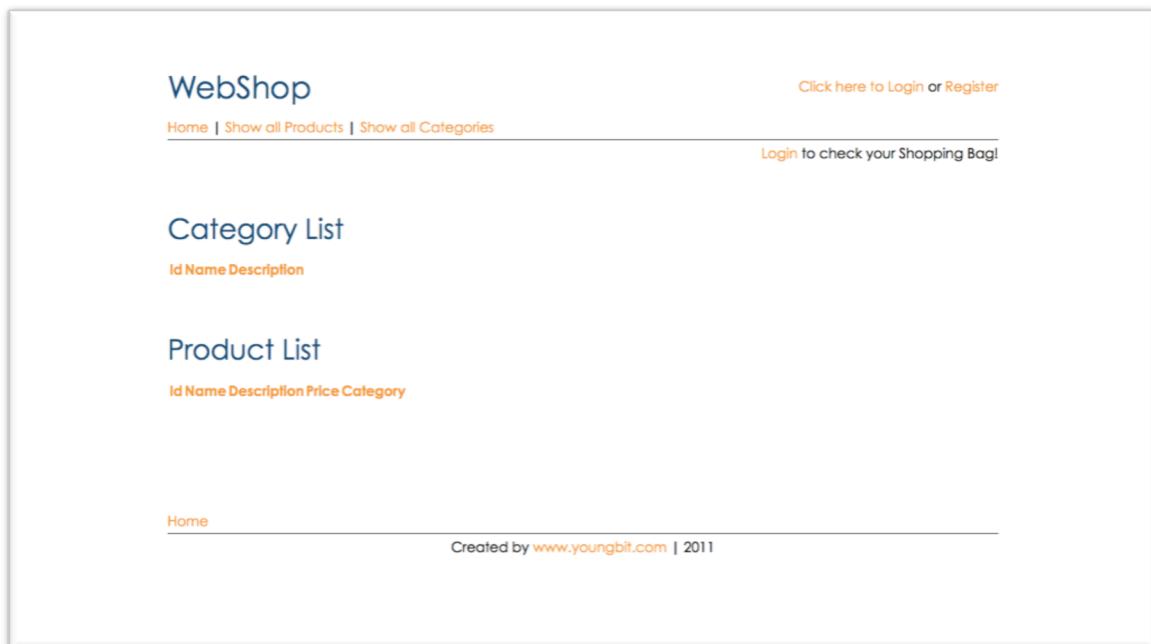


Figure 4 - Controller: Main

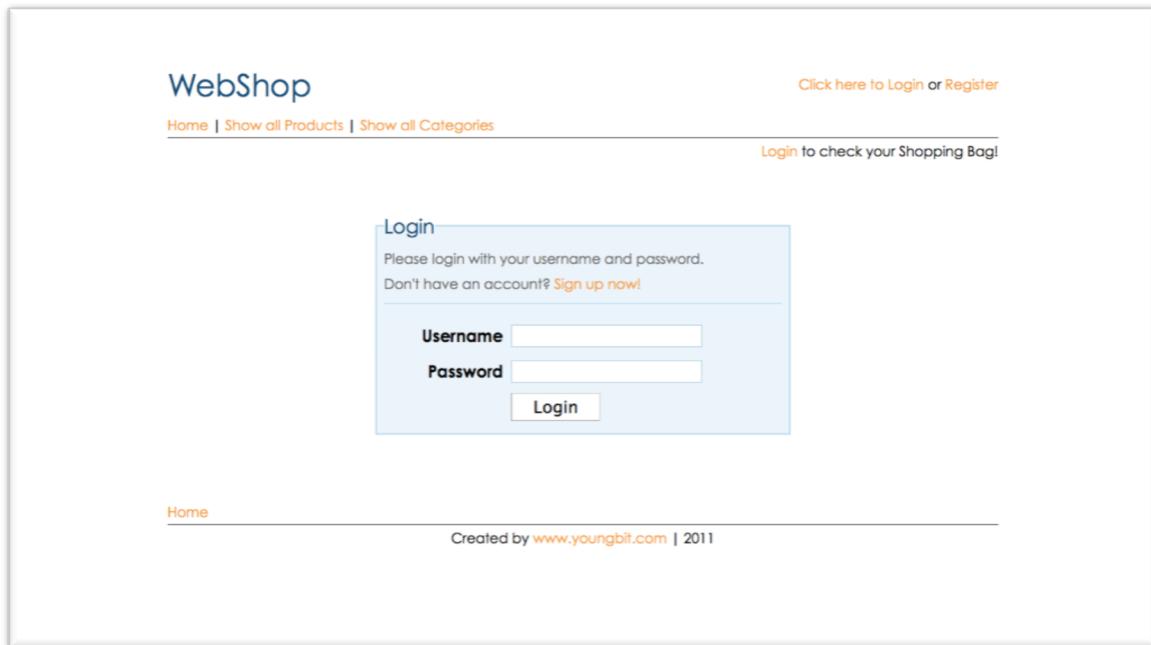


Figure 5 - Controller: User - Action: Login

The screenshot shows a user registration form titled "User Registration". The form instructions say "Complete the form below to create an account!". It contains five input fields: "Username" (empty), "Password" (empty), "Confirm Password" (empty), "First Name" (empty), and "Last Name" (empty). A "Create Account" button is at the bottom right. Navigation links at the top include "Home", "Show all Products", "Show all Categories", "Click here to Login or Register", and "Login to check your Shopping Bag!".

Figure 6 - Controller: User - Action: Register

The screenshot shows the same user registration form as Figure 6, but with populated fields. The "Username" field contains "admin", the "Password" and "Confirm Password" fields both contain "*****", the "First Name" field contains "Manuel", and the "Last Name" field contains "Escríg". The "Create Account" button is visible at the bottom right. Navigation links at the top are identical to Figure 6.

Figure 7 - Controller: User - Action: Register

The screenshot shows a web application interface for 'WebShop'. At the top right, there is a user menu with 'Manuel Escrig' and 'Logout' options. Below the menu, a horizontal navigation bar includes links for 'Home', 'Show all Products', 'Show all Categories', 'Create Product', and 'Create Category'. On the far right of the navigation bar is a link for 'My Shopping Bag'. The main content area has a light blue header titled 'Create Category' with the sub-instruction 'Complete the form below to create a new Category!'. Below this, there are three input fields: 'Name' containing 'Category 1', 'Description' containing 'Description Category 1', and 'User' containing 'admin'. A 'Create Category' button is located at the bottom right of the form. At the bottom of the page, there is a footer with a 'Home' link and a copyright notice: 'Created by www.youngbit.com | 2011'.

Figure 8 - Controller: Category - Action: Create

The screenshot shows a web application interface for 'WebShop'. At the top right, there is a user menu with 'Manuel Escrig' and 'Logout' options. Below the menu, a horizontal navigation bar includes links for 'Home', 'Show all Products', 'Show all Categories', 'Create Product', and 'Create Category'. On the far right of the navigation bar is a link for 'My Shopping Bag'. The main content area features a title 'Category List' above a table. The table has two columns: 'Id' and 'Name / Description'. It contains three rows: 1 Category 1 Description Category 1, 2 Category 2 Description Category 2, and 3 Category 3 Description Category 3. At the bottom of the page, there is a footer with a 'Home' link and a copyright notice: 'Created by www.youngbit.com | 2011'.

Figure 9 - Controller: Category - Action: List

The screenshot shows a web application interface for a 'WebShop'. At the top right, there is a user session indicator 'Paco Garcia | Logout'. Below it, a navigation bar includes links 'Home', 'Show all Products', and 'Show all Categories'. On the far right of the navigation bar is a link 'My Shopping Bag'. The main content area has a title 'Products in Category 1' and a subtitle 'Description Category 1'. It displays a table of products:

Id	Name	Description	Price	Category
1	Product 1	Description Product 1	33.99	Category 1
2	Product 2	Description Product 2	22.5	Category 1
3	Product 3	Description Product 3	30.99	Category 1

At the bottom of the page, there is a footer bar with links 'Home', 'Created by www.youngbit.com | 2011', and 'My Shopping Bag'.

Figure 10 - Category: Controller - Action: Show

The screenshot shows a 'WebShop' application interface. At the top right, it shows a user session 'Manuel Escrig | Logout'. Below the session, a navigation bar includes links 'Home', 'Show all Products', 'Show all Categories', 'Create Product', and 'Create Category'. On the far right of the navigation bar is a link 'My Shopping Bag'. The main content area has a title 'Edit Category' and a sub-instruction 'Complete the form below to update a category!'. It contains a form with fields:

Id	1
Name	Category 1
Description	Description Category 1
User	admin

Below the form is a blue 'Update' button.

At the bottom of the page, there is a footer bar with links 'Home', 'Created by www.youngbit.com | 2011', and 'My Shopping Bag'.

Figure 11 - Category: Controller - Action: Edit

The screenshot shows a web page titled "WebShop". At the top right, there is a user session indicator "Manuel Escrig | Logout" and a link "My Shopping Bag". The main content area has a title "Create Product" and a sub-instruction "Complete the form below to create a product!". Below this, there are five input fields: "Name" (with a placeholder " "), "Description" (with a placeholder " "), "Price" (with a placeholder " "), "Stock" (with a placeholder " "), and "Category" (a dropdown menu currently set to "Category 1"). Underneath these fields is a "User" field containing "admin" with a dropdown arrow. At the bottom right of the form is a "Create Product" button.

Figure 12 - Controller: Product - Action: Create

The screenshot shows a web page titled "WebShop". At the top right, there is a user session indicator "Manuel Escrig | Logout" and a link "My Shopping Bag". The main content area has a title "Product List". Below this is a table with the following data:

	Id	Name	Description	Category	User
1	Product 1	Description Product 1	Product 1	Category 1	admin
2	Product 2	Description Product 2	Product 2	Category 1	admin
3	Product 3	Description Product 3	Product 3	Cat2	admin

At the bottom left is a "Home" link, and at the bottom center is a copyright notice "Created by www.youngbit.com | 2011".

Figure 13 - Controller: Product - Action: List

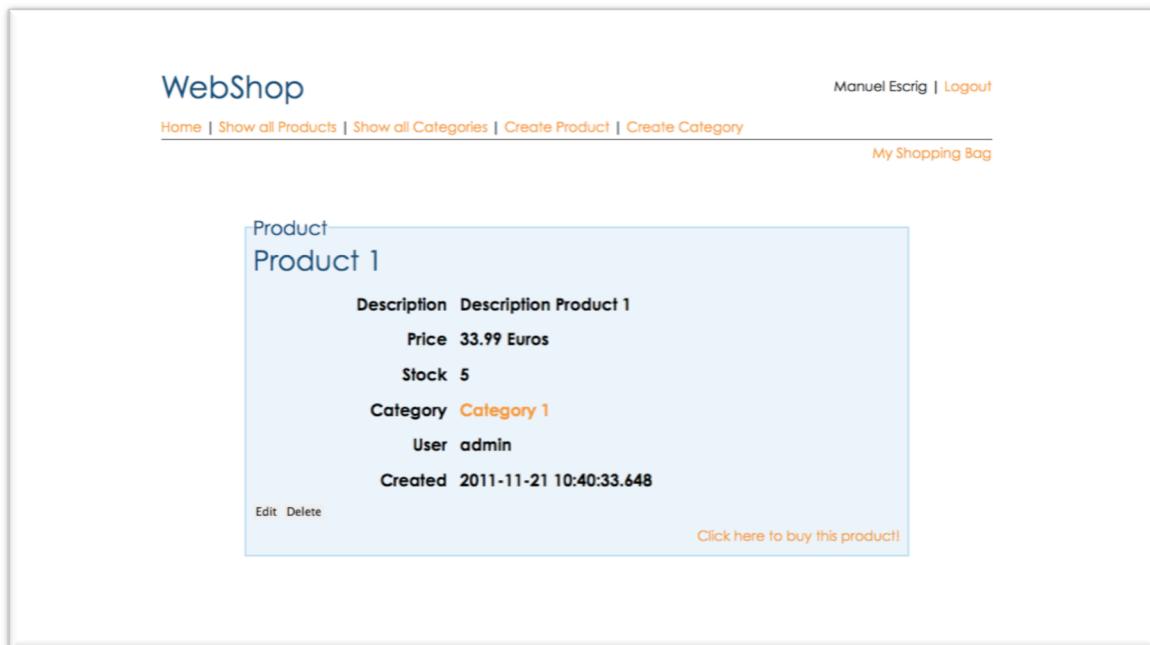


Figure 14 - Controller: Product - Action: Show

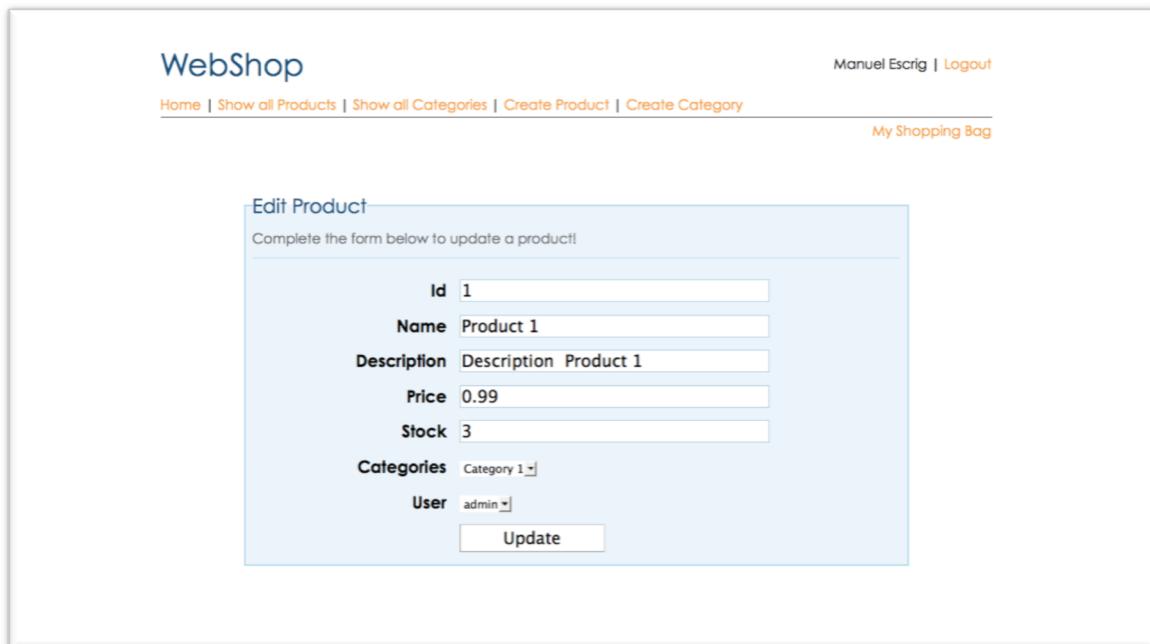


Figure 15 - Controller: Product - Action: Edit

The screenshot shows the 'My Shopping Bag' page of the WebShop application. At the top, there is a navigation bar with links to Home, Show all Products, Show all Categories, Create Product, Create Category, and a user account section for Manuel Escrig with a Logout link. Below the navigation bar, a sub-navigation bar includes a 'My Shopping Bag' link. The main content area is titled 'My Shopping Bag' and contains a sub-section titled 'Products in admin's bag!'. It displays a table of products with columns for Id, Name, Description, Price, and Category. The table shows three items: Product 1 (Description: Product 1, Price: 33.99, Category: 1), Product 2 (Description: Product 1, Price: 33.99, Category: 1), and Product 3 (Description: Product 3, Price: 30.99, Category: 1). Below the table, it says 'Total items: 3 | Total Price: 68.97 Euros'. At the bottom right, there is a link 'Click here to check out your order'.

Figure 16 - Controller: Bag - Action: Show

The screenshot shows the 'Main - Action: Index (admin)' page of the WebShop application. At the top, there is a navigation bar with links to Home, Show all Products, Show all Categories, Create Product, Create Category, and a user account section for Manuel Escrig with a Logout link. Below the navigation bar, a sub-navigation bar includes a 'My Shopping Bag' link. The main content area is divided into two sections: 'Category List' and 'Product List'. The 'Category List' section displays a table with columns for Id, Name, and Description. It shows three categories: Category 1 (Description: Description Category 1), Category 2 (Description: Description Category 2), and Category 3 (Description: Description Category 3). The 'Product List' section displays a table with columns for Id, Name, Description, Price, and Category. It shows six products: Product 1 (Description: Product 1, Price: 33.99, Category: 1), Product 2 (Description: Product 2, Price: 22.25, Category: 1), Product 3 (Description: Product 3, Price: 30.99, Category: 1), Product 4 (Description: Product 4, Price: 43.95, Category: 2), Product 5 (Description: Product 5, Price: 64.50, Category: 2), and Product 6 (Description: Product 6, Price: 45.00, Category: 2).

Figure 17 - Controller: Main – Action: Index (admin)

3. Overview.

The application has 5 domain classes:

- **User:** Used to store all the information about the users and the admin, the user that has as a username “admin” has all the control of the application and will be able to create new categories and new products as well as edit them. The other users they just can buy products and see the items in the different categories
- **Product:** Has the information of the different items of the store, each product belong to one category and one user, and has different information such as name, description, price, stock...
- **Category:** Each category can have many products and is useful to see the different products of the store because you can list them throw different categories. It has a name and a description and belongs to one user.
- **ProductPurchased:** This domain class is useful when we click on “buy a product” because then we generate a new object related to the product that we want to buy, and related to the user (bag) who wants to buy it and it also stores the price (just in case it can changes) and the quantity. (I have the idea of implementing the option of when you buy one product it takes one from the stock)
- **Bag:** It has a list of the ProductPurchased that the user wants to buy, each bag belongs to one user and it store the number of products and the total of the price of the purchase.

4. Assumptions creating the web application.

I had different assumptions while I was developing this application, the main one has been the test cases, some of them I didn't have enough time to develop them well, I wanted to spend more time with the test cases but I couldn't.

Another assumption is that I would like to spend more time developing the application and I will create a new domain class called picture, because I think is important to have pictures of the products so that will be great.

Then I would like to integrate more information in those classes such us number of items that users has purchased and staff like that, so we can have statistics of the sells.

And finally spend time developing a better design of the website.