Centennial College

CENTENNIAL COLLEGE PROGRESS CAMPUS
COURSE COMP229 Winter 2017
Term PROJECT

Scenario: Your employer, E-Solutions Inc., has won the bid for a contract to build an e-commerce web application for a smaller online retail store.
You will use Microsoft Visual Studio to develop the application and as a bonus you can additionally deploy the project using the MS Cloud Computing solution (10% more).

The users will use a browser to access the online store. For development purposes you will use the IIS that comes with your Windows operating system. The business information will be saved in an MS SQL Server database. Active server pages (ASP.NET) will be used to implement the server-side processing of the client requests.

The project have several major components:

• The browser-based GUI is a collection of .aspx documents that allows the user to navigate the web site and select the products they want to purchase. Esthetics and functionality are of utmost importance. Use master pages and CSS for a better layout and navigation in your application. You will use Visual Studio to design the storefront templates for your project.

• Part of the design effort will be dedicated to the modeling of the database. Good design is required for fast retrieval of the information requested by different customers. SQL Server Developer will be used to implement the database that supports the online store.
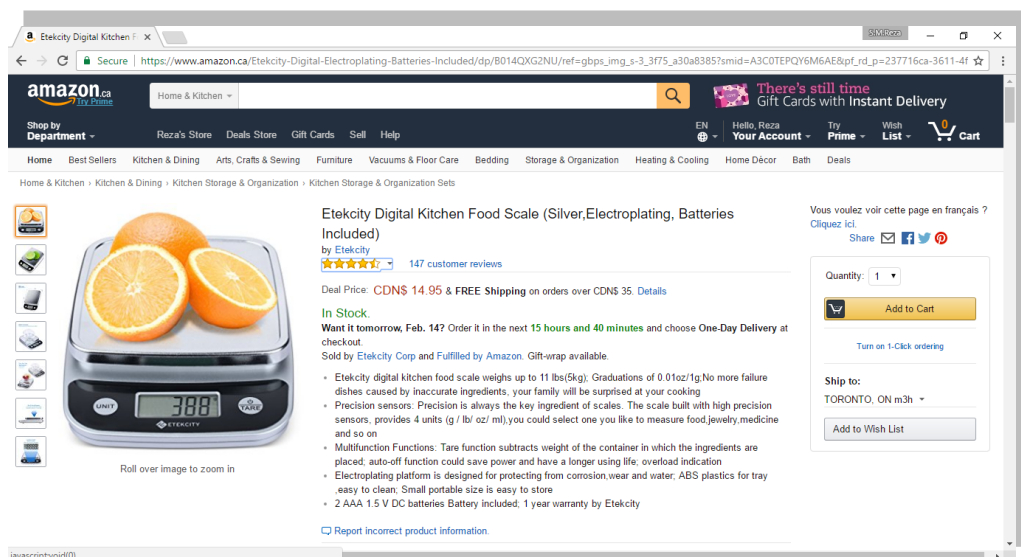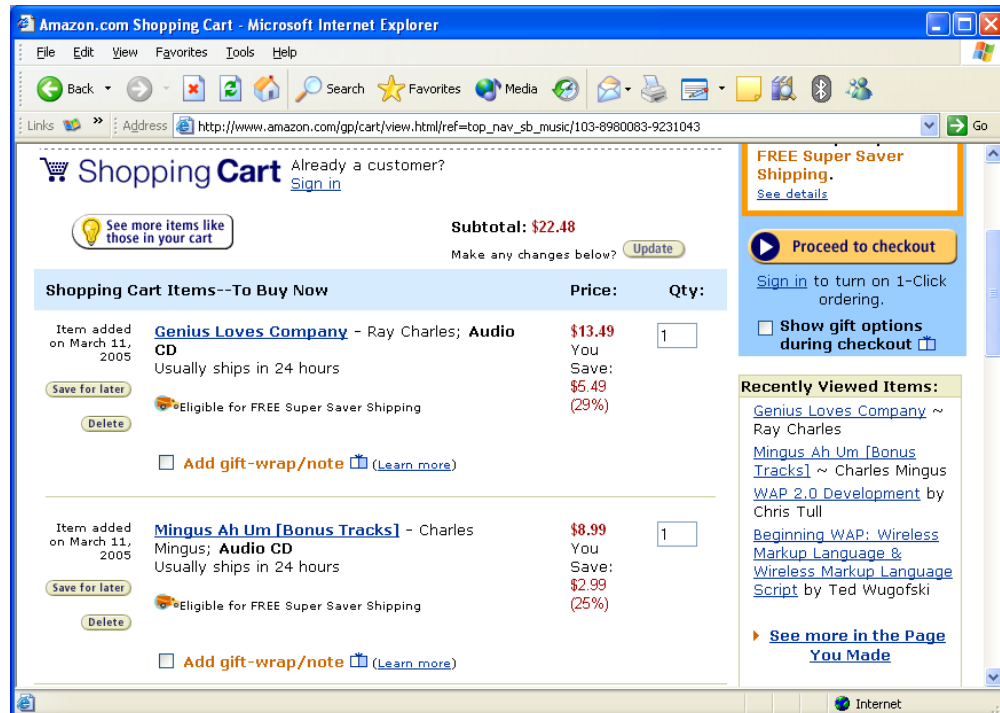
Following is a description of the common business processes related to the online store:

Customers reach the home page of the online store. Here they are welcomed by an attractive interface that allows them to select a certain product category. Once they select the preferred category and click on it, a list of the products available in the chosen category is displayed on the screen. Certain products may be listed in more than one category (e.g. a certain CD could be listed both in the Jazz and Blues categories).

Each product selected for purchasing will be added to the customer's shopping cart (basket).

The clients may choose to see their shopping cart from time to time. They should be able to remove items that they no longer want. They may also change the quantity of a product that they have selected before and is already in the cart.

Following pictures are examples of a typical shopping basket as well as an e-commerce website:

I strongly suggest that you make an account inside the AMAZON Online Shopping website to get ideas.

When the user is done browsing and picking their products, they may choose to checkout and place the purchase order. Your application will allow the shoppers to pay using the PayPal service.

Separately, you have to provide a web-based administrative interface to allow updates to add products and any other administrative task.

(**20% of project mark**) Each team has to add 2 additional customer-friendly features that require database access to be implemented (e.g. cross-sale, up-sale, volume discount, etc.)

Each project will be accompanied by a Word document called **Project Documentation.docx** that explains the following aspects of the project:
• Scope/target audience for the project
• Site diagram
• Screenshots of all the web forms
• Database diagram
• Description of additional customer-friendly features
• Description of security features
• Analysis of the team effort to implement the project with a list of the active members and their contribution to the project.
• A list of challenges that your group encountered while developing the project and the solutions found to surpass those difficulties.

Project Marking
→ **10%** of the project mark is based on the documentation
→ **10%** on the weekly deliverables, weekly progress report during the development period
→ **80%** on the design and functionality of the web application as described above (60% for the core functionality, 20% for the two special features).

Once deployed, you have to zip your application files and put them on DropBox. You have to save the ProjectDocumentation.doc file separately on your DropBox folder.
The project and email notification are due by the Saturday before the last session at 11:00 PM.

Wish you the best of luck ☺
Reza