COSC 304 Project - MyAmazon Online Store

DUE DATE: Wednesday, November 28th (in class) and Friday, November 30th (in lab)

Overview

The project is designed to practice your skills in database design, programming, and querying. The project involves building a web site that allows online shopping such as Amazon.

The project is a group project. Groups are 3 to 5 people **with a recommended size of 3 or 4 people.** All groups will be designing the same online store. Only with special permission may your group attempt an alternate project.

Hardware and Software

You can develop the project using MySQL or Microsoft SQL Server as your back-end database while developing using JSP or PHP code on `cosc304.ok.ubc.ca`. You may also use your own online hosting. The project must be accessible over the Internet.

MyAmazon Online Store

The MyAmazon online store will allow users to buy goods on the web site. You decide if your company has physical stores and warehouses, and the products that it sells.

Mission Statement: To build a web-based store that allows users to buy products online and manages inventory and shipping information from the stores. Users should be able to track the status of their orders, search and browse for items to buy, and feel confident and secure in the purchasing process. The system must also support internal use by administrators who can track the volume and type of goods sold, handle customer problems (such as forgotten passwords), manage product inventory levels, and generate sales reports.

Mission Objectives: The mission objectives are divided into features. Each feature has a point value. The maximum points possible is 50. Ask the professor about the point value for any feature not listed. Partial marks may be awarded for features that partially work but that is not guaranteed.

System Objectives and Features

The objectives and features and the associated marks are available in the project evaluation criteria. There is also a Word file with list of features to include in implemented features section.

Project Deadlines

The project is out of 100 marks and is worth 15% of your final grade. The project has three deadlines:

project proposal (0 marks), project design (25 marks), final demonstration and project (75 marks).

Deadline #1: Project Proposal - Due Wednesday, September 26th

- **Marking:** worth 0 marks (2 marks will be deducted from final project if late)
- **Deliverables:**
  - Groups doing the standard project must: send an e-mail to the professor that provides the names and e-mail addresses of all group members. One of the group members must be designated as the contact person.
  - Groups doing a different project must: write a 2-5 page proposal describing what you are going to build. This proposal should describe why you are building this system, who you are building it for, and provide some initial design and description so that the feasibility of the project can be evaluated.

Deadline #2: Project Design - Due Monday, October 29th

- **Marking:** worth 25 marks
- **Deliverables:**
  - 1-2 page executive summary of what you are going to build.
  - List of assumptions about your domain. (e.g. shipping methods, number of stores/warehouses, etc.)
  - UML diagram for your database design and a brief explanation of it.
  - A relational schema as constructed from your UML diagram written using SQL DDL.
  - Any other supporting documentation including description of web interface (if possible). As part of this, it is good if you show the list of features that you plan to support in your application and a site map.
  - Maximum of 15 pages in total. Goal is to be 10 pages or less.
- **Note:** Your UML diagram should match how you are modeling the system. Your design may include features that you will not end up building and may not include all features that you do build, but it should be quite close to what you THINK you are going to build.
- **Samples:** UBCVIP, Legal Wildlife Trade

Deadline #3: Final Demonstration - Presentations Wednesday, November 28th (in class) and Friday, November 30th (in lab)
Final version due on Friday, November 30th at midnight for everyone regardless of presentation time

- **Marking:** worth 75 marks
- **Deliverables:**
  - Each group will present for approximately 5-7 minutes showing their current system. Presentation is usually a demonstration of system with optional PowerPoint slides. Project Evaluation form is available.
  - Your original marked copy of the database design.
  - A 10-15 page description of your overall project including current UML design, application features, and how to use your system. See the project evaluation form for structure and formatting requirements.
  - I will test your system by performing the walkthrough as you describe, so it is to your advantage to include sufficient detail to highlight the best features of your system. This should include

things like **where the project is installed (machine or web address), login ids and passwords**, how to test your project, what to look for, what makes your project unique, etc. This document should tell me how to test what you did. **The document should be written as a user document.**

- **Note:** The project should be submitted in a folder that contains all documentation files. *You do not have to print out source files.* All source and documentation files must be **submitted electronically in a zip file**.
- **Samples:** UBCVIP, Legal Wildlife Trade

Alternate Projects

You may request a project different than the online store. An alternate project must require database design and programming. The project may have a real-world sponsor, but that is not required. Your project must have the same deliverables as the standard project: database design (using ER/UML diagram), database implementation (cannot just use an existing database), and a major database programming component.

Best Prior Year Projects

- **2017 #1 - UBCVIP** - Design document, Final document
- **2017 #2 - Perfectly Legal Wildlife Trade** - Design document, Final document
- **2017 #3 - Please Buy Our T-shirts** - Design document, Final document
- **2016 - Algrech Camera Store** - Design document, Final document
- **2016 - Runner up - Organic Grain Fed Organ Store** - Design document, Final document
- **2015 - Everything Roadster** - Design document, Final document
- **2013 - Flash Cards** - Design document, Final document
- **2012 - RumRunners.ca** - Design document, Progress document, Final document
- **2011 - Erot Store** - Design document, Progress document, Final document
- **2010 - Ramon's Electronics** - Design document, Progress document, Final document
- **2009 - Computer Science Graduate System** - Design document, Progress document, Final document
- **2008 - Partshound** - Design document, Progress document, Final document
- **2007 - MyBay.ca** - Design document, Progress document, Final document
- **2006 - Sealand Entitlements** - Design document, Progress document, Final document

Project Groups

Group Number	Group Members	Presentation Time
1	Danilo Chiarlone, Mishal Hasan, Raphael Chevallier, Tyrel Narciso, Spencer Ke	
2	Rachelle Gelden, James Koss, Liam Welsh, Jasper Looman, Parsa Rajabi	
3	Sharon Hanna, Emma Smith, Heather Strumpel	
4	Bohan Gao, Haoqiu Wu, Yuhao Huang, Yuqi Sun, Yue Cao	
5	David Emde, Clark Richardson, Karanmeet Khatra, Darrien Broomfield	
6	Tasha Kucher, Aaron Mahnic, Mark Meyer, Greg Petsul	
7	Hamid M. Yaghchi, Naoki Takahashi, Arijit Mondal	
8	Chelsey Hvingelby, Sheyla Alvarez, Jassan Wirth, Marlie Russell	

9	London Taylor, Bryce Battye, Baocheng Wu, Anne Brecklinghaus	
10	Jennifer Labossiere, Jennifer McLean, Ethan Godden, Andrew Nicholson	
11	Joel Prout, Gareth Lam, Adithiya Ghandi, Pierre Frigon	
12	Rohan Chauhan, Tyler Kreway, Matt Carrier, Jorden Roberts, Jan Reisler	
13	Xingyuan Wang, Yanyan Si, Hao-Yuan(Eric) Yang, Wei Yi, Ben Tisserand	
14	Tanvir Kang, Lucy Chen, Samuel Peters, Zachary Maludzinski	
15	Stewart MacDonald, Emily Earl, Michael Spouge, Anthony Boyko	
16	Zhengliang Wang, Keith Nicholas, Tianhao Wang, Delun Chen	
17	Robert Rosa, Courtney Gosselin, Lina Campagnaro	
18	Trevor Richard, Joshua Henderson, Noah Cukiert, Heather Mehain	
19	Carla Mather, Mathew Lockhart	
20	Mary Whitten, Sebastian Caron-Nowak, Nick Philipsen	
21	Samantha Desbrisay, Ian Milton, Sumeet Bajwa	
22	Daniel Walls, Chris Cheung, Connor Kingsmill	
23	Ahmed Fayed, Nathaniel Martin, Gabriela Lugo, Akinloluwa Ogunlusi, Adrian Caparosso	
24	Samual Finnigan-Griffin, Matthew Wattie, Michael Sheroubi, Philip Okanlawon	
25	Dhruv Virani, Pardeep Singh, Tafhim Chowdhury	
26	Kyle Lee, Kenny Ho, Mintae Kang, Jae Kim	
27	Matthew Igat, Wiliam Setiawan, Jon Gresl, Daniela Davis	
28	Chris Cheung, Hayun Jin, Omololu Awosika	

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