

**University of Ontario Institute of Technology (UOIT)**  
**ENGR 3700 Data Management Systems**  
**CSCI 3030 Database Systems and Concepts**  
**Project (group project) – Phase III**

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**Due Date: Dec 3, 2012 (UPDATED)**  
**Submit softcopy via Blackboard by the due date**

The group project is an important part of this course. In the previous phases, your group worked on the designing and creating the backend of your database application. In Phase III, you will work on creating the front end of the database application. The main purpose of this project is to enable you to gain experience and apply concepts and technologies presented in this course to real-life applications. The design and implementation of the application utilizes several of the concepts presented in class.

The final mark for Phase III will be based on the following grading criteria:

- **Presentation and Demo (20%)**  
The group will demonstrate and defend their work. You must prepare PowerPoint Slides for a 5-minute presentation. Each presentation will be followed by 2-minutes for questions.
- **Technical Content (80%)**
  - **Implementation/Coding/Performance Evaluation (40%)**  
This all depends on the project: if you implemented a system then how well the system is implemented, what is the level of functionality, creativity in developing the system, and its usability.
  - **Final Report (40%)**  
This is the project final report. 4 - 6 pages (~3000 words), Times 11 Font, Paper includes: an abstract, introduction, relation to other work, the main body of work, conclusions with contribution made, schematics, design diagrams, thoughts about any future work, references. The report should include the goals of the project, its relationship to the course, design and implementation, results and analysis. Your report should include snapshots of the results for all queries used.

### **Phase III Description:**

In Phase III of the project, you are asked to use your imagination in designing and developing an application that serves as the frontend of your database application. That is, the overall functionality of the system is delivered using multiple Web pages, an XML document, and Web Services. The project should be relevant to the course content; in particular, it should have some connection with the Databases, World Wide Web, Scripting technologies, and Markup Languages, XML, and Web services. You may use any Web programming language (i.e. PHP, ASP.NET, CFM, etc..).

Your system should include at least the following features/components:

- ❖ Two or more Web pages that you implement
  - Web pages will execute the 10 views from Phase II (Part C) and displaying the results in the proper tabular HTML format
- ❖ An XML document with a defined XML Schema that you implement
- ❖ A Web page that you implement which reads and displays the results from the XML document
  - At least two queries associated with the XML document search
- ❖ **One** Web service that you implement
  - ~~At least one Web service that interacts with an XML document~~
  - ~~At least one Web service that interacts with a database~~

This is a general description of the assignment; the details are left up to your imagination.

## **Evaluation**

The following factors will be amongst those considered in evaluating the project:

- choice and justification of architecture, technology, platform, etc.;
- bugs found and fixed; possible future enhancements
- appropriateness of solution to the stated problem
- interface design and usability
- standard of writing, including grammar and spelling
- organization of reports, including clarity of introduction, logic of structure and navigability
- quality of code, including coding style: comments, modularity, etc.
- use of technology or concepts addressed in the rest of the course
- delineation of creative activity, i.e. what you have produced that is new
- extent of research done, including history of problem domain