**475/575 Database Management**

**Term Project: Develop a Database-Driven Web-based Application**

## Stage 2: Project Proposal

Each group must submit a report named Stage2\_yourID.doc (where yourID is the captain’s UANet ID) which includes the following items:

1. Project Title.
2. Project Summary. It should be a short description of what your project is.
3. Project Description. It needs to include the following:
   1. Description of the application domain of your choice. State as clearly as possible what you want to do.
   2. Usefulness. State as clearly as possible why your chosen application is useful. Make sure to answer the following questions: Are there any similar or equivalent web sites/applications out here? If so, what are they and how is yours different?
   3. Realness. Describe what your data is and where you will get it.
   4. Description of the functionality that you plan to offer. This is where you talk about how to meet the functionality requirements. There are two types of functions you need to offer:
      1. Basic Functions:
         1. Insert/update/delete records to the database
         2. Search records in your database and return results. You need use a few different interesting queries over your database. **One of the queries must involve join of multiple tables.**
      2. Advanced Functions:
         1. Remember to include at least two creative things (advanced functions), i.e., something that doesn't exist in equivalent web sites/applications. The advanced functions should go beyond the basic functions listed above; in addition, an advanced function should also be something that is technically challenging, meaning you would need to spend some significant time to implement it.
         2. Make clear what the features are, and explain why you think it is cool to have them. If you are unclear, talk to me.

Project Title

Vintage Computer Enthusiasts (ViCE) Database Application

Project Summary

Team DataOrLore will be building a web-based application that documents vintage computers from the first mainframes to the 8- and 16-bit computers of the 1970s, 1980s and 1990s.

Project Description

The ViCE application will be an interactive and collaborative web application designed to

Description of Application Domain

The web application will be an online database of vintage computer systems, peripherals and software. The objective is to gather as much information on these systems before information is lost to time. Additionally, it allows vintage computer enthusiasts to share information and potentially sell or trade systems they may have in their collections.

Usefulness

There are other web sites that have made similar efforts. This is intended to be more collaborative, and including these features

1. Allow users to add or change items in the database
2. Allow users to interact with others to exchange ideas or arrange for sale or trade of systems
3. Allow for queries to web-based sales forums (including eBay and Craigslist) to search for items for sale in a certain region (city, state/province or country)
4. Submit plans that enthusiasts may be designing for new versions of vintage systems

Realness

Data will be obtained through several sources, including

1. Other enthusiast sites on the internet
2. Wikipedia
3. Archived magazine and periodicals

## Description of functionality

Basic Functions

1. Database of vintage items, including
   1. Computers
   2. Peripherals
      1. Monitors
      2. Printers
      3. Storage Devices
      4. Other devices
   3. Specifications of systems
   4. Photographs and diagrams of systems
   5. History of items
      1. First manufactured, last manufactured
2. Manufacturers
   1. Manufacturer profiles
3. Submit new items to the application maintainer for inclusion into the database
4. Requests changes on existing items with new or corrected information
5. Create a profile to allow for creation of favorites for each user

Advanced Functions

1. Submission of user’s items from their own collections
   1. Photographs
   2. Unusual features or modifications
2. List of enthusiast meetings, swap meets and other users’ events
   1. Insert/delete
   2. Submission by users for consideration
3. API interface to eBay, CraigsList (and possibly others) to search for items currently for sale