

IST 256

FINAL PROJECT

Due Dates, Section 1:

Team Preference email by 5pm on Tuesday, December 1

Class Presentations, Monday, December 14 (last class)

Submit Project Report and Visual Basic Project to iLMS, Thursday, December 17

Due Dates, Section 2:

Team Preference email by 5pm on Monday, November 30

Class Presentations, Thursday, December 10 (last class)

Submit Project Report and Visual Basic Project to iLMS, Wednesday, December 16

The final project will be a team project. It will be an information application programmed in Visual Basic and will also include an in-class (short) presentation of the design and a written report.

The information application will be of your choice, but it must include data that is read from a file and a user interface where the user can interact with the data or perform some task on the data.

Forming Project Teams:

The teams will be assigned by your professor, but you will be able to give your preferences and those preferences will be followed if possible. You can give preferences by sending an email to your professor by the time and date specified above. Teams will consist of from 2-3 people (except for Section 1, where a few 1 person “teams” will be allowed if preferred).

Section 2 team assignments will be given in class on Tuesday, December 1, and Section 1 team assignments will be given in class on Wednesday, December 2. Teams will be given time to meet during lab. At this meeting, you should choose the topic of your project and agree on team roles. Each person on the team will play one or more of the following roles, as needed by the project:

Write the problem statement

Collect or make-up data for the file and design the file format

Design the user interface

Write and debug the code

Test the code and user interface (this must be a separate person than the coder)

Document the code

Check/rewrite the problem statement and complete the report

Each person on the team should understand the final version of the code and how it achieves the problem solution. During the class presentation, each member of the team should be prepared to answer questions about the code.

Example Projects

Two descriptions of example projects have been prepared. The first example is a Used Book Seller, with an example file of used book data. This example will also serve as an example of

some parts of the report that you must write. If you choose to do an example like this, it should be different in data and in the user tasks. The second example consists mainly of query log data and a simple application is sketched. If you choose to do a project like this, you can use the query log data and more fully develop the user application.

These two examples serve to give you an idea of the type of project that you can do. Feel free to invent data and user applications, as long as programming the application will meet the technical requirements given below.

Project Technical Requirements

For this project, you will implement a user interface and the application in Visual Basic. The functionality of the application must include the following three elements in some form:

- Reading data from the file
- Searching the data, based on a user request
- Sorting data

In addition, your project should include at least two of the following list of items:

- Hierarchical Records
- Multiple Forms in the user interface
- Procedures (different from one shown in class)
- Additional Form Elements and Event procedures

Project Results

Each team will give a short 5 minute presentation about their project in the final class. The presentation will be informal (no powerpoint!)

- Description of the problem
- Description of the data (can show the text description or actual data file)
- Display the user interface in Visual Studio and describe its functioning

Each team will submit a project report along with a functioning Visual Basic project. The report should include

- Problem Statement
- Description of the data
- Description of the user interface design and functionality

Each student in the class will also be expected to submit a few sentences that are the individual team performance feedback. This statement should include your roles and contributions to the group and your feedback on the performance of other people in the group.

Submitting the Project

By the due date, each team should make one submission to the Final Project assignment dropbox in the iLMS system. This submission will include the project report (as a document) and the zipped folder consisting of the project.

By the due date, each student should make a submission to the Final Project Evaluation assignment dropbox, giving their evaluation of their own and their teammates' performance.

The project grade will include the project report and whether the project implementation meets the technical requirements and includes good documentation. Although the grade for the project will start out the same for each team member, this grade will be adjusted individually to take account of the project performance evaluations.