ITSE 1331 Semester Group Project (Fall 2017)

Contents

Overview

The purpose of this semester group project is to give you experience working on a code development project with multiple people involved in the design and coding process. Each of the members of your team are code developers and thus must be involved in the actual coding of your semester project. The materials your team receives are from the systems analyst that has analyzed the problems that exist in the current business system for Paisano Pharmacies. In terms of the seven phases of the program development cycle, you are going to begin with Phase 1 and will go all the way through Phase 5. For the purposes of this class and this project, we will not worry about phases 6 and 7. The deliverables required for this project will be provided via a phased approach.

There are numerous diagrams from the systems analyst that are included to help you as you work on designing and coding your team's pharmacy management system. Failure to follow the documents that are identified as files showing the systems analyst's solution to Paisano Pharmacies problems will result in lost points.

Grading

You will receive 10 grades for the different components of your semester project and combined, these 10 grades are worth 30% of your semester grade. When you present your project on December 2, 2016, your peers will be doing peer assessments on your project and their assessments will calculate into part of your semester project grade.

Project Milestones

- Part 1 – Due October 2, 2017
  - Requirements Document
  - Use Case Definitions Document
- Part 2 – Due October 11, 2017
  - User Interfaces
- Part 3 – Due October 25, 2017
  - Event Planning Document
- Part 4 – Due November 6, 2017
  - Update 1
- Part 5 – Due November 22, 2017
  - Update 2
- Part 6 – Due December 6, 2017
  - Final Application
  - Class Presentation
  - Bound Presentation

Additional Requirements

1. Graphics and images should either be created by you or be royalty-free. If an image is copyrighted, written permission from the copyright holder must be obtained and that written permission must be included in your bound presentation. Failure to do so is considered as stealing and will be treated as cheating in this class and you will fail the course for the semester.
2. All deliverables should be typed on a computer. There should be nothing handwritten or hand-drawn as part of your deliverables.
3. As a team, you must have the UI for all forms required by the application. However, you only have to have coded three of those forms. One of the three forms must be the main form for the application from which all other forms are launched from.

Part 1: Program Requirements Analysis DUE: October 2, 2017

Requirements Document

Your instructor must approve the requirements document for your project before you can proceed with the project. Write a requirements document that includes the following items:

- The purpose of the program being developed
- The application title (this should be unique to your team)
- The procedures to be followed when using the program
- Any equations and calculations required by the program
- Any conditions within the program that must be tested
- Notes and restrictions that the program must follow
- Any comments that would be helpful to understanding the problem

Your requirements document is due on Blackboard before class starts on September 26, 2016, and a printed copy should be turned in at the start of class.

Use Case Definitions Document

Write a use case definitions paper that specifies each of the sequences of action a user will perform when using the program and how the program will respond. You may find that multiple use case definitions are required depending on what the user is wanting to do in the pharmacy management system.

Your use case definitions paper is due on Blackboard before class starts on September 26, 2016, and a printed copy should be turned in at the start of class.

Part 2: User Interface Design DUE: October 11, 2017

User Interface

Use Visual Studio, design the user interfaces for your pharmacy management system. Make sure that you follow the Principles of User Interface Design from Chapter 2 of your textbook. Due to the different use cases involved in the pharmacy management system, you will likely have several Windows Form Objects in your application and thus should have several mock-ups for your system. Make sure you have already done some fine-tuning of your user interface to include colors, images, and setting interface object properties in accordance with the needs of the program.

Your user interface is due on Blackboard before class starts on October 5, 2016, and a printed copy should be turned in at the start of class.

Part 3: Event Planning DUE: October 25, 2017

Event Planning Document

The event planning document allows the developer to document the events that can occur based on the user interface. It is a table that specifies objects in the user interface that will cause events, the actions taken by the user to trigger the events, and the event processing that must occur. Make sure that no processing step that must occur is left out of the event processing column. The event processing tasks identify what processing must be done when the event occurs.

How these tasks are accomplished aren't specifically mentioned, but the information in the event planning document must be precise enough to allow the developer to easily write the code to implement the specified tasks.

Your user interface is due on Blackboard before class starts on October 19, 2016, and a printed copy should be turned in at the start of class.

Part 4: Update 1 DUE: November 6, 2017

Update 1

You should have at least one Windows Form Object completed by this time. That means the user interface is finished and all of the events for that form have been coded. We will spend a few minutes in class where the instructor will meet with each team to review where you are at in your project. You will need to have the Visual Studio source files of your project for this meeting.

You also should have a zip file of your Visual Studio project and have uploaded this file to Blackboard before class starts on October 31, 2016.

Part 5: Update 2 DUE: November 22, 2017

Update 2

You should have at least two Windows Form Object completed by this time. That means the user interface is finished and all of the events for those two forms have been coded. We will spend a few minutes in class where the instructor will meet with each team to review where you are at in your project. You will need to have the Visual Studio source files of your project for this meeting.

You also should have a zip file of your Visual Studio project and have uploaded this file to Blackboard before class starts on November 16, 2016.

Part 6: Final Project Submission and Presentation DUE: December 6, 2017

Note: The final project submission will be graded based on completeness and consistency.

Final Pharmacy Management System Application

Your final pharmacy management system application is due on December 6, 2017. A zip file of your entire Visual Studio project should be uploaded to Blackboard before class starts on December 6, 2017.

Class Presentation

On December 6, 2017, each team will be presenting their project to the class. You will need to be prepared to show your completed application to the class as well as having a PowerPoint based on the requirements below. As this is an extensive project, your team presentations should be 20-30 minutes long.

Presentation Slides

Create a PowerPoint presentation that does a good job marketing your pharmacy management system application. Your slides should cover the topics below. The presentation is limited to 20-30 minutes. You will be graded on the Quality of the Slides, Quality of the Presentation, and a Class Evaluation.

The presentation should cover the following items:
- Your project goal
- Problem identification
- Features list
- Use Cases
- User Interfaces
- Challenges you faced during the project (and what you did to overcome those challenges)

Slide Design
- Professional!
  - Use a professional-looking PowerPoint Design Template! Make your presentation slides look professional & consistent.
  - Stay away from ClipArt. Use real photos, when graphics are required.
  - No typos. Perfect alignment!
- Readable!
  - Test your slides in the classroom prior to the due date. Make sure everything is readable from the back of the room. Look at font size and text colors.
- Concise & Precise!
  - Follow the 6x6 Rule – no more than…6 bullets per slide, 6 words per bullet.
  - Everything should be pasted into your slides. The only exception is you will show us your working pharmacy management system application.
  - If you animate each bullet, your presentation will take too long.

Tips on Presenting
- Practice alone! Practice as a team!
- It's best if only the presenter is standing. The rest of the team should be sitting nearby waiting for their turn to present.
- Present with enthusiasm! Show that your team believes in your application! If you are enthused about your topic, your audience will follow suit.
- Don't just read your slides. You must explain. Note cards will not be permitted.

- Don't stand in one spot. Walk around…a little.
- Control your own clicking.
- Have good eye contact. Don't just look at your professor while you present. You have an entire audience. Give everybody your attention.
- Speak clearly & loudly.
- Say "we" - show it was a team effort.

Team Requirements
- Time Limit: 20-30 minutes.
- Dress: Business casual.
- Arrive early.
- Everyone is required to present.
- **Note cards or other types of notes will not be permitted!** All presenters should know their information and be prepared.
- Only the presenter should be standing during the presentation. The rest of the team should be sitting nearby awaiting their turn to present.
- Please copy your PowerPoint file and your Visual Studio project to the Desktop prior to class starting on the day that your team presents. Make sure that you have a backup of your PowerPoint file just in case.
- During Q&A, help a teammate out if they are struggling with a question.

Bound Presentation
Before you present, you are expected to turn in a bound presentation for your project. This bound presentation will include final versions of everything you have turned in for the project all semester. You also should have a CD with a copy of all of your source files and should be attached to the inside back cover of your bound presentation.

Binding Order
Include the following items in the following order:

- Cover Page – see requirements below
- Program Requirements Analysis (w/ corrections)
    - Requirements Document
    - Use Case Definitions Document
- User Interface Design (w/ corrections)
    - UI Mock-ups
- Event Planning (w/ corrections)
    - Event Planning Document
- Presentation
    - 2 slides per page – see requirements below
- Code
    - Print out the source code for every form in your application. Place the code in the order the user would encounter the forms by using the application.

Other Binding Requirements
- *Binding type:* spiral plastic coil or comb binding. Unacceptable binding formats include 3-ring binders, 3-ring brad folders, or any presentation folders (including the kind with a swing clip to "clip" the papers together)
- *Cover*: Use a transparent, plastic cover as first page.
- *Tabbed Pages*: include tabs separating the various sections: Program Requirements Analysis, User Interface Design, Event Planning, Presentation, Code. Each tab should be printed (not handwritten) with the section title.

- *Other*: Glossy paper may <u>not</u> be used with the exception of the title page.

Cover Page

Design a professional looking (logo, color, etc.) title page for your report. Creativity in your cover sheet can result in up to 10 extra points on your bound presentation. Include the following information:

- ITSE 1331
- Intro to Visual Basic Programming Semester Project
- Fall 2017
- Team Name
- Name of your Application
- Team Member Names (in alphabetical order by last name)

Miscellaneous Items

- Your entire project should have a professional, consistent look (e.g. font, colors, etc)
- *Dot the i's, cross the t's* - your project should be free of grammatical & spelling errors; all objects on diagrams, interfaces, slides, and documents should be easy to read and aligned properly.
- *Backups* - make sure you have several backup copies of all items in the event something happens to one of your backup copies.
- ***I will keep the project at the end of the semester.***