**Course Project   
DeVry University  
College of Engineering and Information Sciences**

**Course Number: CIS355A**

Background

According to the U.S. Department of Labor, software development is career field that is growing much faster than average and software developers have a median pay that is over $100,000. Why is the career field growing so fast and paying so well? Software is permeating our lives. We walk around with smartphones that are more powerful than mainframe computers from years ago. Even our cars have become rolling computers with updates being offered over the air.

This Course Project covers many advanced Java programming techniques. Each week, you covered different techniques and components, including GUI design and development, reading and writing to files, and reading and writing to databases. After developing a complex GUI application, you can now create business applications that can solve client problems. You can help clients automate the tedious tasks so their employees can focus on more creative and productive tasks, including client relations, client support, and new client acquisition.

Expectations for Final Deliverable

Your Final Course Project presentation will be your Final Exam, and it will count for the same number of points as a final. Review your Course Project submissions. Then, create a PowerPoint presentation that explains your project in detail and illustrates to any employer your competence as a technology expert.

Your PowerPoint presentation should be customized with a professional appearance. Review each module’s submissions, then create slides for each module with screenshots, pictures, and explanations. In addition, develop slides to transition and explain each stage of the development process. You will need a title slide, introduction slide, slides describing each module, challenges slide, career skills obtained slide, peer review, and conclusion slide in the project slide presentation. You should have around 18–25 slides.

**Peer Review:** Review one of your fellow student’s projects. The review will have the following information:

Your name:

Student you are reviewing:

Functionality (1-10) with comments:

Design (1-10) with comments:

Communication (1-10) with comments:

**Final Submission:** After you develop your Final Course Project presentation, upload your final presentation to your Wix site. If you already have a Wix site, you can add this presentation to your current Wix site. If you have not created a Wix site yet, please view the Wix Site Set-up Instructions to set up your free Wix.com account. Next, submit your final project through the Assignments page, and copy the link from your published Wix site to the comments when you submit your final presentation. Once you upload this and other projects to Wix.com, you can showcase your projects to potential employers. This is a great way to demonstrate the skills you have obtained from the projects. Refer to the grading rubric below to ensure you incorporate the essential elements into your project.

**CIS355A Final Project Rubric**

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| --- | --- | --- | --- | --- | --- | --- |
| **Criteria** | **Ratings** | | | | | **Points** |
| Excellent | Good | Fair | Poor | Fail |

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| --- | --- | --- | --- | --- | --- | --- |
| **Systems Management:**  Support the delivery, use, and management of systems within a software development environment. | 5 points  Installed all necessary software and libraries, including NetBeans, MySQL, and Visio | 4 points  Installed NetBeans and MySQL; did not install Visio | 3 points  Installed NetBeans only | 2 points  Downloaded installation files, but unable to install applications | 0 points  Software not downloaded or installed | 5 points |
| **Soft skills:**  Communicate effectively in written, oral, and graphical forms in a variety of professional contexts. | 5 points  Wireframe and Class diagrams created correctly | 4 points  Wireframe and Class diagrams created with minor errors | 3 points  Wireframe or Class diagram created, but not both as required | 2.0 points  Wireframe or Class diagram created with errors | 0 points  No class diagrams | 5 points |
| **Design:**  Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements | 30 points  Successfully completed console and GUI version of BMI application | 20 points  Completed console and GUI version of BMI application with minor issues | 15 points  Completed console and GUI version of BMI application with major issues | 10 points  Attempted to create the console and GUI version of the BMI application | 0 points  No BMI application created | 30 points |
| **Design:**  Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements | 15 points  Used all the discussed advanced GUI components, including Radio buttons, Checkboxes, Tabs, Menus, and JTables | 12 points  Used some of advanced GUI components, which may include Radio buttons, Checkboxes, Tabs, Menus, and JTables | 10 points  Used some of advanced GUI components with minor errors | 6 points  Used some of advanced GUI components with major errors | 0 points  Did not use any of the advanced GUI components | 15 points |
| **Analysis:**  Analyze a complex computing problem and to apply principles of computing, software development fundamentals, and other relevant disciplines to identify solutions. | 15 points  Successful in creating a GUI application to read and write using a separate DataIO class with no errors and successful integration of MySQL database | 12 points  Successful in creating a GUI application to read and write using a separate DataIO class and integration of MySQL database with minor errors | 10 points  Successful in creating a GUI application to read and write but did not use a separate DataIO class and integration of MySQL database with major issues | 6 points  Attempted to create GUI to read and write to file and integration of MySQL database with major issues | 0 points  Did not create GUI application to read and write to file and no MySQL integration | 15 points |
| **Teamwork:**  Function effectively as a member or leader of a team engaged in activities appropriate to computing and software development | 10 points  Constructive feedback to or from one team member | 8 points  Somewhat constructive feedback to or from one team member | 6 points  Little feedback to or from one team member | 4 points  Basic feedback to or from one team member | 0 points  No feedback | 10 points |
| **Soft skills:**  Demonstrate communication skills in various environments and contexts. | 10 points  Title slide, introduction slide, challenges in the project slide, career skills slide, slides describing each module, and conclusion slide present | 8 points  Title slide, introduction slide, slides describing each module, and conclusion slide present | 6 points  Title slide, introduction slide, and conclusion slide present | 4 points  Title slide present | 0 points  No slides present | 10 points |
| **Professional Responsibility:**  Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles | 10 points  All (100%) deliverables submitted on schedule with professional design | 8 points  All (100%) deliverables submitted on schedule, but without professional design | 6 points  Some deliverables submitted on schedule with professional design | 4 points  Some deliverables submitted on schedule with poor design | 0 points  No (0%) deliverables submitted on schedule | 10 points |