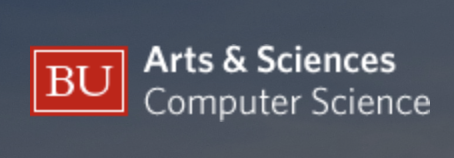
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**CS 591 P1 FINAL PROJECT**

**GRADING SYSTEM**

**INSTRUCTOR – Christine Papadakis-Kanaris**

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1. **INTRODUCTION**

* This document explains the motivations, technical functionalities and the overall design process related to the development of our final project related to the course of CS 591 P1 – Object-Oriented Design and Development in Java.
* The project has been developed over a period of weeks with detailed focus provided to different aspects of the, that include but not limited to the – frontend, backed, interface development, documentation, testing, debugging and the final presentation.
* This report is prepared keeping in mind the requirements of the design document associated with the overall software implementation of the project.

1. **REQUIREMENTS ANALYSIS**

* The primary thought process for the software implementation and design process is concerned with understanding the key requirements of our Professor regarding a computerized grading system.
* The motivation behind the successful implementation of our project is based on cent percent alignment of her requirements with our overall class design and each class’ technical functionality.
* As part of the requirement analysis, the process involved inquiring our Professor from time to time about her precise specifications that she wanted to have in her grading system application.
* Some of the primary objectives were to understand the following aspects and subsequently working on them:
  + which features exactly were lacking in the current system,
  + which features present in the current system needed improvisation and,
  + which features present in the current system could be deleted to significantly boost the overall functionality and robustness.

1. **DESIGNING OF USER INTERFACE**

* The following paragraphs explain the functionality of each Graphical User Interface (GUI) class that has been implemented in the application designed.
  + **AddCoursePage.java**
    - This page produces a window that provides the Professor the functionality of adding a new course.
    - Options are provided to choose the name of the course, select the requisite semester in which the course has to be incorporated and, choose from one of the templates based on which the course is to be designed.
    - Buttons are also provided that with options denoting whether to head to the next page, previous page and/or to register specific students into the course’s class.
  + **AddStudentPage.java**
    - This page provisions a GUI-based window for the user to fill up the details of the prospective student who is to be registered for the particular course.
    - The respective details that can be entered by user about the student involve the first, middle and last names, the unique student ID, the unique email associated with the student.
    - One more important option that comes into play includes choosing the academic level/type of the student, i.e., selecting whether the student is an undergraduate or a graduate-level one.
    - The buttons available in this page include the options to confirm or rescind the entered details.
  + **AssignmentAddtionPage.java**
    - This page provisions the user to enter the specifics of the required assignment type that is supposed to be created. The name of the assignment is the first thing the user input.
    - The user can select which type of assignment this is, either from the pre-defined categories, or can create a new category for the particular assignment.
    - An input box is provided to enter the total score related to the specific assignment. A crucial feature in this page is the provision to select the scoring criteria for the respective assignment.
    - The buttons provided at the bottom of the page allow the user to either go back to the earlier page or to finish up adding the respective assignment’s specifics.