Class Diagram (UML) Areez Abdullah 22i-1090 OOP-B

User
- string name;
- string email;
- int uniqueID;
- string password;
- string phone;
- string role;

+ bool loginUser();

+virtual bool authenticate();

+virtual void registerUser();

Class
- int numClasses=0;
- string class_name;
- string subject;
- int numAttachedFiles;
- string description;
- int numStudents;

+void createClass();

+void updateClass();

+void deleteClass();

+ void viewClassDetails();

Gradebook
- double cumulativeGrades;
- double classAverage;
- double weightageSettings;
- int numStudents;
- int numTeachers;

+void addTeacher();

+void addStudentGrade();

+void updateStudentGrade();

+ void updateCumulativeGrades();

+ void updateClassAverage();

+void generateStudentGradeReport();

+void generateClassGradeReport();

Student

Teacher

Grade
- Int studentID;
- double grade;

Assignment
- string title;
- string description;
- int numAttachedFiles;
- int pointValue;

+void createAssignment();

+void updateAssignment ();

+void deleteAssignment ();

File
- string filename;

Datetime
- string datetime;

Submission
- string submissionTimestamp;
- int numAttachedFiles;
- string evaluationStatus;

+void submitAssignment();

+void gradeSubmission();