**(Chris)**

**Interpreter**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+String[] getMessages(String id)** | **String id** |
| **+void initializeDatabase()** | **ArrayList<Course> courses** |

**Department**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+bool holdExamBoard()** | **String name** |
| **+void writeMessages(String id, String message)** |  |

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**(Mark)**

**Faculty**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+void addGradeToModule(Student student, Module module double grade)** | **String name** |
| **+void getStudentTranscript(Student student)** |  |

**Student**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+void getTranscript()** | **String id** |
|  | **String name** |
|  | **Course course** |

**Transcript**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+void displayTranscript(Student student)** |  |
|  |  |

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**(Shauna)**

**Course**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **Null** | **String name** |
|  | **ArrayList<Semester> semesters** |
|  | **ArrayList<Student> classList** |

**Semester**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **Null** | **ArrayList<Module> modules** |
|  | **Int number** |
|  | **Double weighting** |

**Module**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+void addStudent(String id)** | **String name** |
| **+void dropStudent(String id)** | **String code** |

**GradeCalculator**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+String calculateGrade(Module module, String id)** | **STATIC** |
| **+double calculateQCA(Course course, String id)** |  |
| **+double calculateQCA(Semester semester, String id)** |  |
| **+double calculateQCA(Module module, String id)** |  |

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**(Dara)**

**CSVReader**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+void readGradingScheme(String fileName, int[] bounds, String[] grades)** | **STATIC** |
| **+ArrayList<Student> readClassRole(String fileName)** |  |
| **+String[] readStudentMessages(String id)** |  |

**CSVWriter**

|  |  |
| --- | --- |
| **Methods** | **Attributes** |
| **+void writeMessage(String message, String fileName);** | **STATIC** |
| **+void insertGrade(String id, double grade, String moduleName);** |  |
| **+void removeGrade(String id, int index, String moduleName);** |  |

\*\*\*Separate CSV files per module\*\*\*

\*\*\*All non-static class also need getters / setters\*\*\*