**Change 1: -**

**CourseCreditType class**

This class is a part of the Unitime scheduling system, It extends BaseCourseCredit Type which is an abstract class that its methods can be inherited by CourseCreditType and it provides a base implementation of the CourseCreditType like "uniqueld" which is created within the object when the constructor is called which calls the constructor of the parent class "super(uniqueld)", This class represents a specific type of credit that a course provides. Each course can have multiple credit types (for ex: lecture credit-lab credit), and each credit type can be associated with one or more courses ,For example, a course may offer both lecture and lab credit types, and each credit type may be associated with different credit hours or units and this is managed by the administrators.

The CourseCreditType class provides methods for retrieving and managing credit types in the system. the getCourseCreditTypeList() method returns a list of all credit types defined in the system, the getCourseCreditTvpeForReference(String referenceString) method returns a specific credit type based on its reference string(argument), getCourseCreditTypeForUniqueld(Long uniqueld) method returns a specific credit type based on its unique id, and getAbbv) returns the abbreviation of the course credit type object, It calls getAbbreviation) method from the parent class.

**Feature to be added**

This feature will be to get credit types of a specific department Description of the change: Add a new method **getCreditTypesOfDepartment()** to class [CourseCreditType.java](http://CourseCreditType.java), in model package.It can be used to know which credit types are often chosen that can be used to preform calculations.

Change 2: -

**LogCleaner.class**

This Java class, **Log Cleaner**, provides several methods for cleaning up different types of logs from a database using Hibernate ORM. The class contains six methods, each responsible for deleting old records from a specific type of log table:

* **cleanupQueryLog**: Deletes all records from the **QueryLog** table that are older than a specified number of days.
* **cleanupChangeLog**: Deletes all records from the **ChangeLog** table that are older than a specified number of days.
* **cleanupOnlineSectioningLog**: Deletes all records from the **OnlineSectioningLog** table that are older than a specified number of days.
* **cleanupMessageLog**: Deletes all records from the **MessageLog** table that are older than a specified number of days.
* **cleanupStudentSectioningQueue**: Deletes all records from the **StudentSectioningQueue** table that are older than a specified number of days.
* **cleanupHashedQueries**: Deletes all records from the **HashedQuery** table that were last used more than a specified number of days ago.

Each method takes an integer argument **days** that specifies the number of days beyond which records should be deleted. If **days** is less than zero, no records will be deleted.

**Feature to be added**

Add a new functionality to retrieve the logs in text files from the database before the cleanup process, right before cleaning up the logs , we will implement a method to save these logs into text files , it is useful for further analysis on data to get useful information.

Change 3: -

***Add a feature to allow user to export student schedule dashboard as pdf.***

**Description of the change**: Add a new class inside the student’s package called StudentSchedullingDashboardExportPDF.java, the student’s package is located inside the export package. Adding a new export format may require modifying other parts of the codebase as well, such as the configuration files and the user interface.

**Reason for the change**: User can only export the student schedule as csv, and the csv extension is not supported on many applications unlike the pdf extension.