

CODE CHANGES REPORT

1) Transcript Class:

- a) Fixed calculateGPA. GPA is no longer calculated randomly.
- b) Unit testing has been done.

2) Advisor Class:

- a) The FTETakeable function has been corrected and the student's semester number has been accessed.
- b) Fixed the inside of the CheckElective function.
- c) Unit testing has been done.
- d) The customLog function has been created for logging. Also,
private static String file_path
private static logger
private static FileHandler
are defined for use in this function.

3) Course Class:

- a) toJson and toJsonArray functions added on purpose for exporting models.

4) Mandatory Class:

- a) toJson function inside is changed. It does not call parent function anymore.

5) Controllers:

- a) Students' json files are created randomly instead of hard coding in RandomizationController which is also added in this iteration.
- b) Quota checking is done properly and new attribute is added to Course abstract class for this cause:
private int registeredStudentsCount
- c) Transcript for each student also created randomly considering the students semester in RandomizationController.
- d) Different course types are constructed other than mandatory. Necessary changes were made in those course models as well.
- e) Controller class has changed to be not abstract since it did not contain any abstract methods at all.
- f) New function **private void printErrorMessages()** added which basically prints related messages to the console and it is called at the end of **startSimulation()** method.
- g) Constructor written for LabelingController.
- h) chooseRandomAdvisor in the Labeling controller changed the modifier private to public to access for the tests purpose.
- i) In studentController, a student is added to the course's registeredStudents list.
- j) Registering students to courses algorithm is changed. His/Hers semester courses tried to be registered in SimulationController. Random Course is deleted from this controller. And added a new curriculum to the project and added to the curriculum list. Moreover, a setter was added for the students list.
- k) Initializing students done in calling Randomization Controller related function from LabelingController's initStudent function.

- l) RandomizationController: The customLog function has been created for logging.

Also,

private static String file_path

private static logger

private static FileHandler

are defined for use in this function.

6) Curriculum Class

- a) The customLog function has been created for logging. Also,

private static String file_path

private static logger

private static FileHandler

are defined for use in this function.

7) Student Class

- a) The customLog function has been created for logging. Also,

private static String file_path

private static logger

private static FileHandler

are defined for use in this function.

8) RegistrationError Class

- a) The customLog function has been created for logging. Also,

private static String file_path

private static logger

private static FileHandler

are defined for use in this function.

9) Logs

- a) Log files created for advisor, student, curriculum and randomization controller.

10) Tests

- a) AdvisorTest, LabellingControllerTest, RandomizationControllerTest, StudentControllerTest, StudentTest and TranscriptTest are created

11) UML

- a) Getter-setter methods are removed.
- b) Advisor variables are updated.
- c) Students variables are updated.
- d) Transcript methods are updated.
- e) Curriculum variables are updated.
- f) LabellingController methods updated.
- g) Course methods are updated.
- h) Elective methods are updated
- i) RandomizationController Class added

12) System Sequence Diagram

- a) Totally updated

13) RAD

- a) System sequence diagram added.
- b) Scope and problem statements are added.