DATA LABELING

SYSTEM REQUIREMENTS ANALYSIS DOCUMENT

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VISION

This program simulates a course registration system. Students sees the courses which s/he can register and register courses.

PROBLEM STATEMENT

The main purpose is to develop solutions to some classification problems related to the problems experienced by the student in course selection and the mechanisms in the data sets.

SCOPE

Many students will be able to use the program and enrol courses. The system starts with user authorization and gets data from related student's Json file. After that system lists courses in related semester which is determined by the administrator. Student starts selecting courses. The system stores the taken courses data for each student. This registration continues until the student finishes the process. In some cases, failures may occur. The system also logs failures that occured during whole registration process in related student's json file. Also system logs whole failure information for all students in a json file. After student exits, the system gives a feedback and terminates.

SYSTEM CONSTRAINTS

In this project, it is to make a console application that will run in the Java IDE program, using the Json library.

GLOSSARY OF TERMS (ALPHABETICALLY LISTED)

Advises: Recommendations that the advisor gives to the student about courses

Advisor: The instructor who approves the courses taken by the students

Currentcourse: The course which taken by a student in a current semester

Dataset: The cluster that contains the information (id, name, gpa, course, etc.) to be used

Givencourses: Array that holds the courses given by the related professor

Json file: The file which includes meta data

Sections: Different time frames of courses

Students: Who selects the courses

Prerequisites: The course in the previous semester depends on the course that needs to be taken in the semester

Professors: The instructor who gives the course that is connected to the department

USE CASE: Register a course

Primary Actor: Student

Stakeholder and Interests:

-Student: Wants to easily select their courses for each term.

Main Success Scenario:

1.Student enters his/her school ID.

2.System lists courses that student can select.

3.Student selects a course.

Repeat step 3 until student doesn't want to select more courses or exits.

First Iteration Plan:

1. Student logs in.

2. System lists courses that student is able to select.

3. Student can select a course only if s/he passed prerequisites of that course.

4. Student selects courses. A student can select more than one courses.

5. If student selects an elective course, system randomly assigns elective courses from elective courses pool.

6. After course selection, student waits advisor approval. In some cases, (such as full quota, insufficient credit conditions, etc.) advisor or the system may not approve some courses.

7. Registration process is printed to the screen.

8. After registration is completed, student exits.