

DATA LABELING

SYSTEM REQUIREMENTS ANALYSIS DOCUMENT

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VISION

This program simulates a course registration system. The system performs one semester course registration for all students in one run.

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 register courses.

First of all, administrator determines the registration term (such as Fall or Spring) in the INPUT.json file.

System starts with creating random students by receiving student information from a json file, which consists of random names and surnames.

System assigns courses -which are available in the current registration term- to all students according to their semester information, by receiving courses from INPUT.json file.

The success status (such as Pass or Fail) of the students is randomly determined by the system.

System stores the taken courses data with grades and success status for each student in the transcript, which is in related student's json file.

In some cases, failures may occur.

The system also logs failures that occurred during the registration process in related student's json file.

Also system logs whole failure information for all students in a json file, prints this information to the screen 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)

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

Json file: The file which includes meta data

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

Sections: Different time frames of courses

Semester: Includes what year we are in university

Students: Who selects the courses

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

Transcript: Includes name, surname, number, lessons taken and letter grades given

USE CASE: Register a course

Usecase: Register a Course

Actors: Student, Advisor

First Iteration Plan:

When the program starts to execute, system checks semester of this registration.

System assigns courses to created students related to the student's semester information.

System randomly assigns elective courses from elective courses pool.

In some cases (such as full quota, insufficient credit conditions, etc.) the system may not approve some courses.

Registration process is printed to the screen.

After registration is completed, system terminated.

DOMAIN CLASS DIAGRAM

