

REQUIREMENT ANALYSIS DOCUMENT

Introduction

In this document, purpose of the first iteration of the project, list of functional requirements and overall description is provided. Additionally, system functionality using domain model and SSD (System Sequence Diagram) are provided.

Purpose

The purpose of the first iteration of the project is tracking registration process of the students according to department regulations as a simulation. In the simulation, user can observe how distance education period will be handled. Also, project can be used in order to test if the system works properly.

Functional Requirements

- System requires an input file to start simulation.
- System creates instructors.
- System creates courses.
- System assigns courses to instructors.
- System creates 70 students per semester.
- System provides available courses of the current semester.
- Students register courses according to regulations.
- System creates transcript files for each student.

Overall Description

In the registration process of the simulation, system will check whether student can take available courses in current semester. If there is a situation that prevents course taking, the system handles this situation as an error and adds to transcript file of student. For instance, if the capacity of elective course is full, system does not approve the registration of this course. If students can meet the conditions necessary for the course, they may register for the course. In the end of the semester the grades of courses will be generated and GPA will be created. After finishing the process, system provides transcript files of students. Transcript files includes summary of registration process. This process will continue until end of 8 semesters.

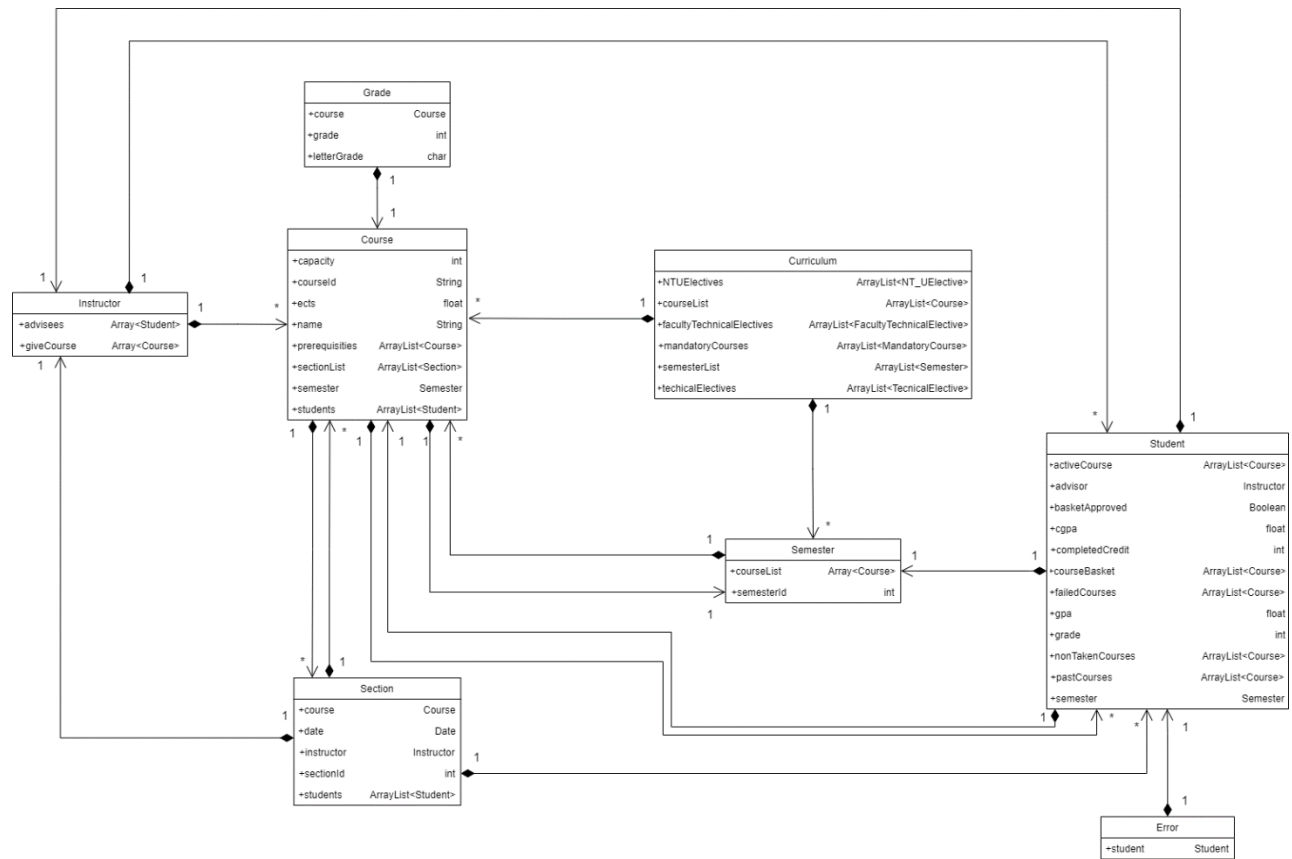
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Domain Model



System Sequence Diagram

