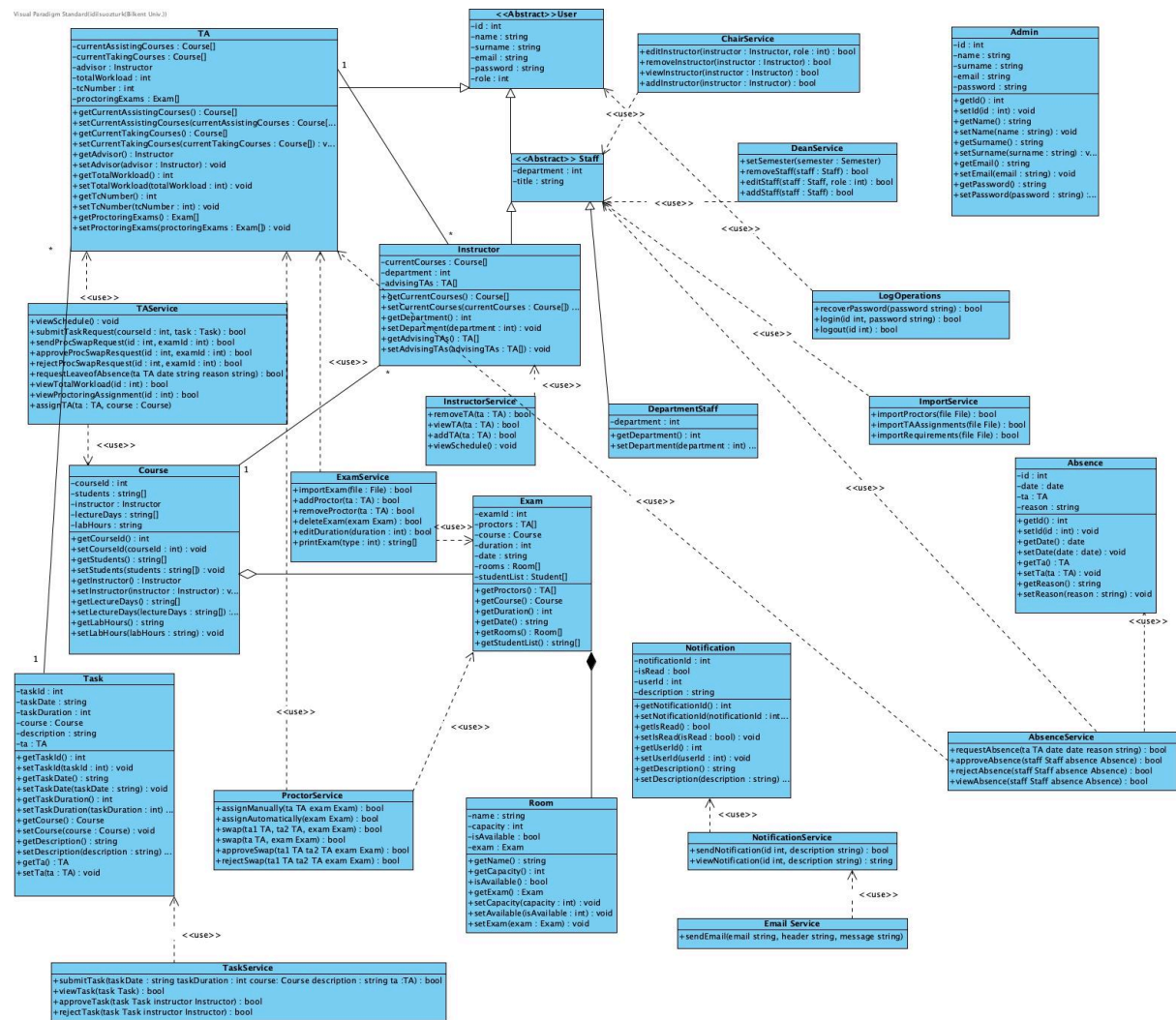


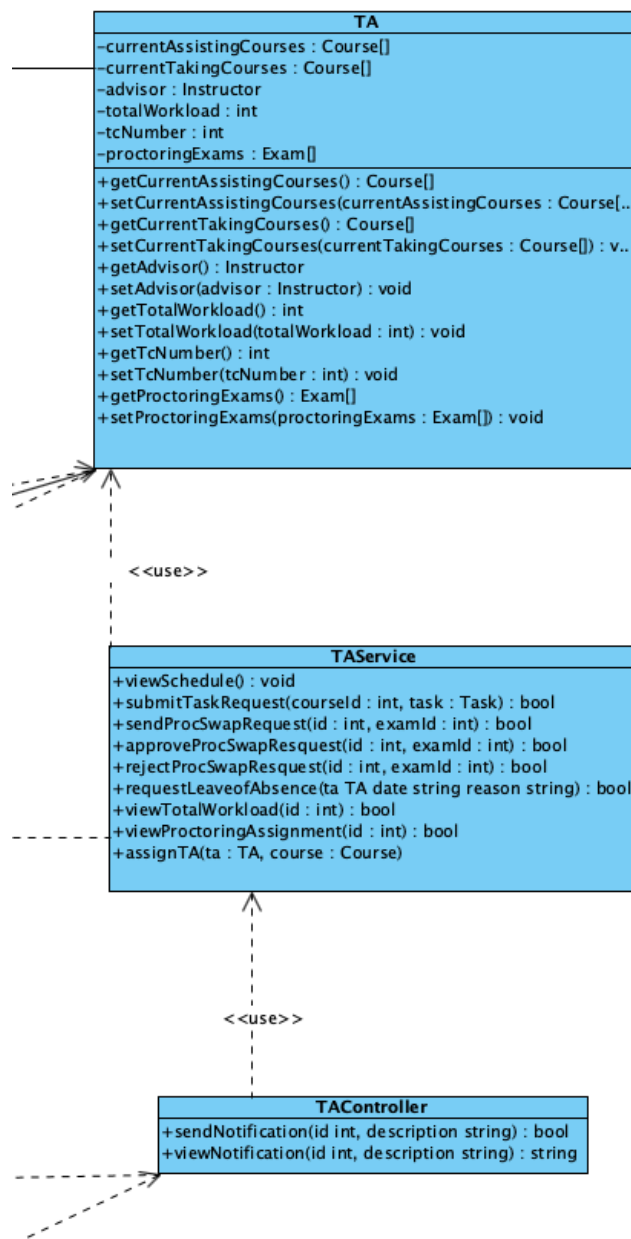
Visual Paradigm Standard (idilsuozturk@Bilkent Univ.)



2. Design Patterns

2.1 MVC Design Pattern

In the TA Management System, the MVC Design Pattern is preferred because of its easy to implement nature. Entity services and controllers are kept in different classes in order to restrict access between classes and make communication between necessary classes easier. Additionally to make it easier to use databases and usage of tables entity classes were necessary. The TA Management System is implemented with object oriented programming style and MVC design pattern helped with the implementation. In the following piece of diagram a small part of our MVC design is shown:



2.2 Strategy Pattern

Strategy Pattern Design is generally used to have different approaches to same or similar problems under different conditions. In the TA Management System for proctor assignment and proctor swapping there were different approaches and algorithms for different needs. That is why Strategy Pattern is preferred in order to keep the code readable and simple. The following diagram shows an example usage of strategy pattern in TA Management System.

