Database for University Courses

Konrad Kubacki, 259772, ECE 2020

Usage

Every menu can be left by pressing the *Escape* key. Then, user will be asked for confirmation.

When the cursor > is present, it can be moved using *Up* and *Down* arrow keys.

After selecting desired option, use *Enter* key to proceed.

Student

Student is able to enroll for courses (3rd menu option). Courses which has been already enrolled by the student are greyed out.

Student can check his or her information and grades from enrolled courses.

Instructor

Instructor can see his/her information and courses, just like Student. He/she can also add grades for his/her students.

Code structure

The code is divided into *source* and *include* folders with source and header files, accordingly.

The content of the folders is further divided into *ui/* and *database/*. It is for separating database specific classes from the code used to interact with the user.

Database files

The database consists of a few *CSV* files, which has been partially filled with data (only first few students have some courses and grades filled up).

The source of the *CSV* files is *excel.xlsx*.

All the files are located in the *database/* folder.

Building

Add *include/* and *source/* to include directories. There's also a precompiled header *pch.hpp*.

The code was written with Visual Studio Community 2019, version 16.10.0.
The code was successfully compiled and tested using */std:c++latest* for x64.
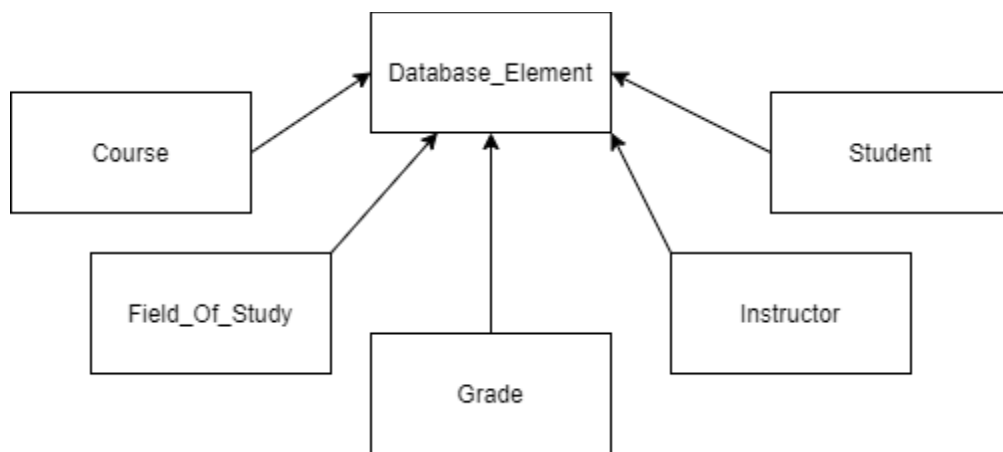
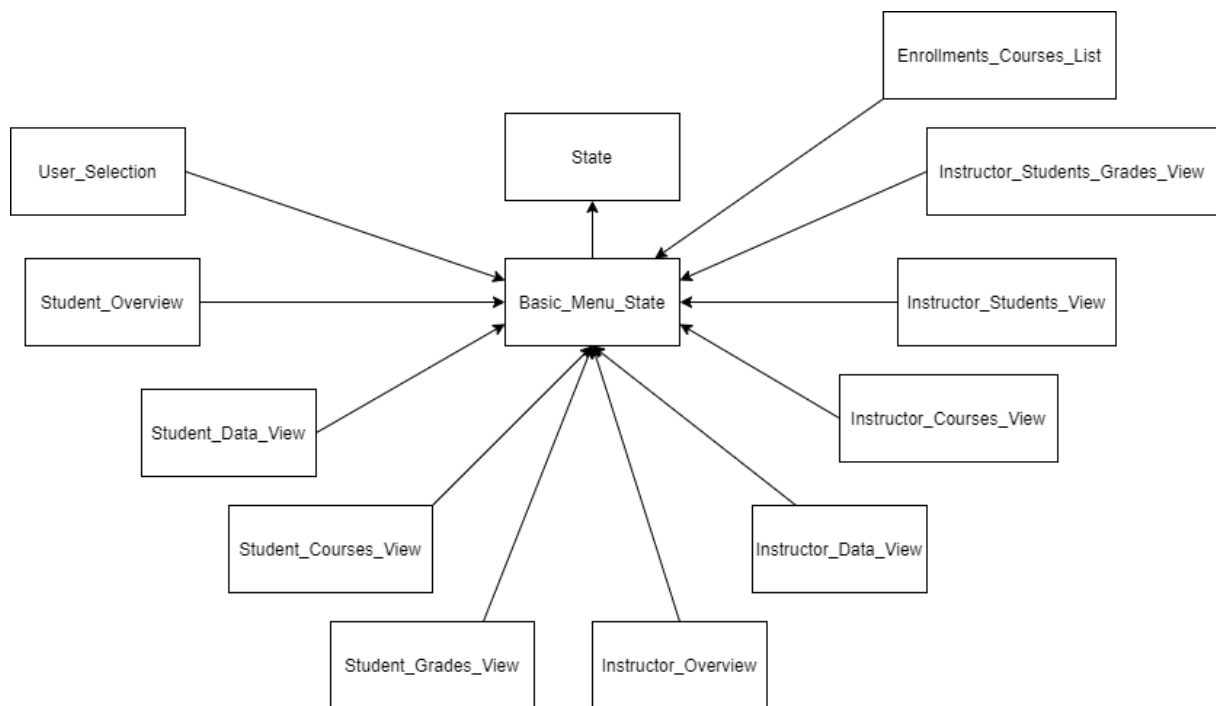# Diagrams

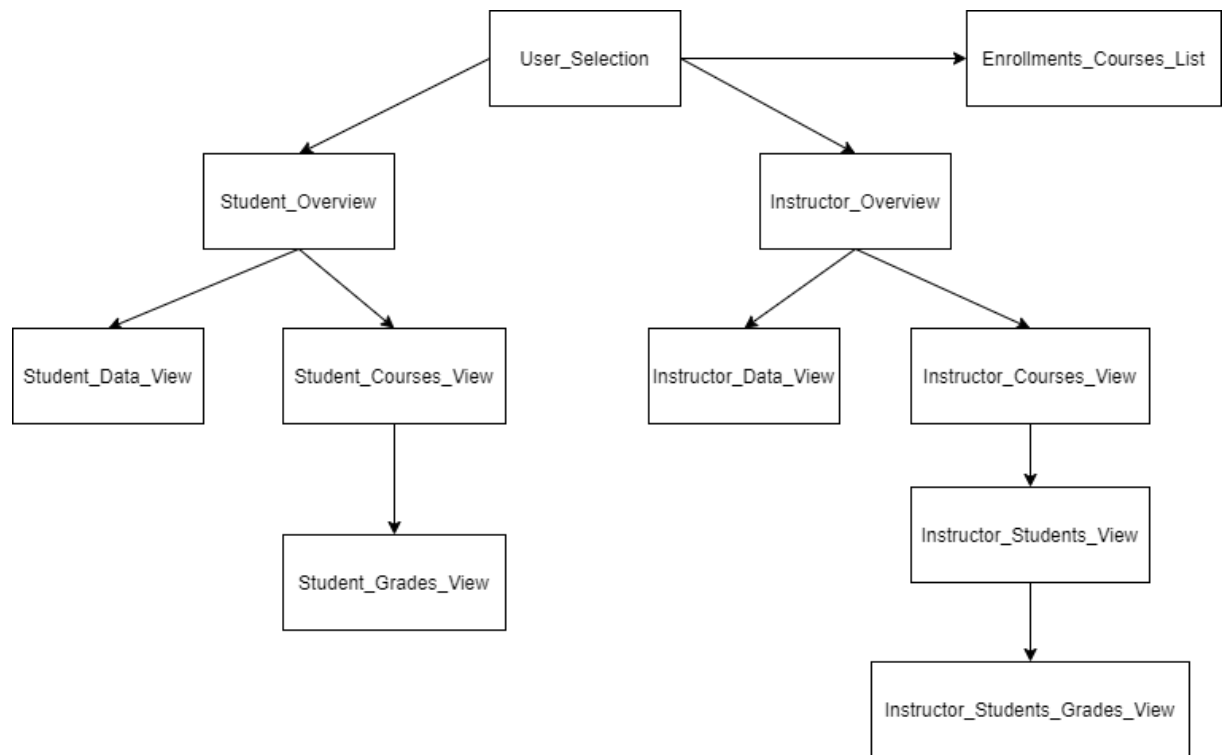*Figure 1. Inheritance tree for database classes.*

Figure 2. Inheritance tree for menu states.

Figure 3. Available menu states.