Attribute-Based Access Control(ABAC)

Introduction

The goal is to help the students to organize and arrange their course schedule wisely, that will allow a further view of their academic years for a better plan, and graduate smoothly.

The project is focusing on the students, which will guide them for building up the courses schedule. The professors and advisors of different faculties will be considered as our secondary users. As for the development phase, we had narrowed down our user to students of engineering faculty.

Subject

This project is basically made for the students in U of R. The students with their registered information in school from the first year, will be given their student ID number and password. Then, they will be using their student ID number to login to our website, which will show the academic information according to their records.

However, we had also created a signup page for the students to collect the needed information to store their records into the database. The needed data to be collected in the sign up page, it includes the student ID number, student name, name of campus, student faculty, program, major, the total credit hours, grade point average, and password/confirm password to login and to have full access to all web pages.

Rescourse
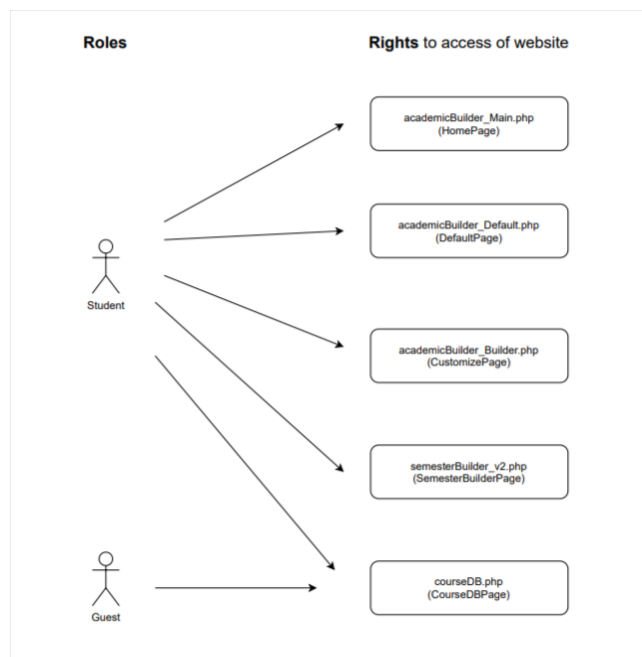
When the students login to our website, they will be in the academic home page, which shows their academic status in school and to scratch out the diagram and chart of their classes performance.

In the academic default page, based on the students' major, it displays the courses to take in each term or semester, as well for the electives that are provided by the University. And, while clicking on the course title, it pops up an information box of each course. When the students have completed the course, it will be filled with a color.

For the customize builder page, students can plan out their own course schedule along with the information and advice for better time management. In here, it also layout the students' taken course history with grade performance information.

As the semester builder page, the students are aware of the courses they have completed, and the courses that needed to take and register. The course schedule and details will be output in the calendar while registered.

Lastly, in the course db page, the guest users and students can search up the courses for more detailed information.

Action

In the academic default page, as the students click on the course title, it will pop up an information box of each course.

With the customize builder page, students build up their own timetable, just by drag and drop the course in one of the white boxes that can see more information and advice.

As the semester builder page, students can register the course by doing the drag and drop the course to the drop here image box.

For the course db page, they can use the search bar, filter, or faculty course title to look for the course information.

Environment

The website can be worked with any browsers like Google Chrome, Firefox, Microsoft Internet Explorer, etc., on the computer at any time. Once the users have logged in to the website, there will be a limit time of one minute which will automatically logout the users if they are inactive on the web pages.

The website can also be on any mobile devices for more convenient use anywhere. However, the mobile view of the academic default page, it will only display the course short name not like on the computer with the course title for a cleaner view of the web page.

Policy

To use the website, students need to be registered in U of R to be able to have their academic information ready for them when login. Otherwise, they can use the signup page to sign up an account and login to the website. They can also view our website as a guest, but only to have access to the course db page to search up for the course information.