Database Development and Class Registration

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For this step of the project, I created the remaining database tables and implemented them along with sample class and semester data. I then add in infrastructure from our CST310 class, providing functionality for login/user registration/and database access. I have extended this pattern to use an MVC pattern, putting logic into controller classes that are exercised from the PHP files. I refactored to this pattern as I added logic for removing a student from a class; I wanted to reuse it in the profile and class pages, respectively. From the following screenshots, you can see that the project allows for registration, class enrollment, wait list additions/notifications, and a stubbed-in method that will not actually email someone on the waitlist when a classmate unenrolls from a full class.

This was a fun project to implement in PHP and allowed me to broaden the scope from a simplistic implementation. I enjoyed playing with the controller pattern and getting the code reusability working. I do not anticipate using PHP in future development work, but it was an enjoyable challenge.

**A screenshot of a computer

AI-generated content may be incorrect.**

Figure Screenshot of Database with Tables

A screenshot of a computer

AI-generated content may be incorrect.

Figure Screenshot of Logged out homepage

A screenshot of a computer

AI-generated content may be incorrect.

Figure Screenshot of Logged in Home Page

A screenshot of a computer

AI-generated content may be incorrect.

Figure Screenshot of classes enrolled

A screenshot of a computer

AI-generated content may be incorrect.

Figure Screenshot of semester without enrolled classes

A screenshot of a computer

AI-generated content may be incorrect.

Figure Screenshot of Profile page including summary of enrolled classes

A screen shot of a computer program

AI-generated content may be incorrect.

Figure Code to handle wait list notification

A screen shot of a computer code

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Figure Code to Add to waitlist

**References**

Connolly, R., & Hoar (2022), R.*Fundamentals of Web Development, 3/e* Pearson.