Final Project User Manual

Software Engineering

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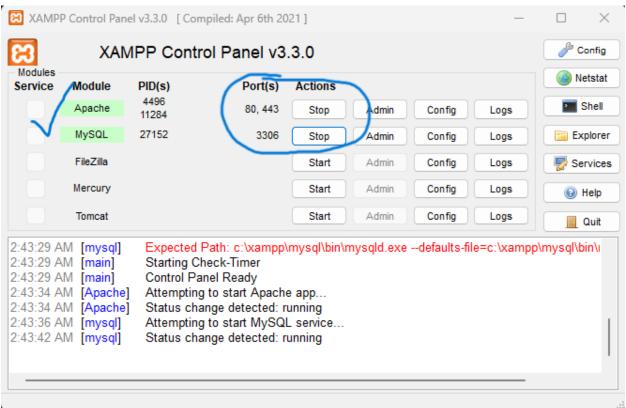
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Getting Started

This program is run through a web server. This program utilizes PHP and HTML to create the forms and process the user's information, and then sends that information to a MySQL database via phpMyAdmin; a web-based server for accessing a MySQL database.

To get started utilizing this program, we must first start a local server. Open a terminal on your computer and run the command: "php -S localhost:8080" (you must first install PHP if you do not already have it. It can be installed from https://www.php.net/). Once the server is up and running, we open XAMPP and start the Apache and MySQL module services to connect our server to the MySQL database (again, you must download XAMPP if you do not already have it installed. It can be downloaded from https://www.apachefriends.org/).

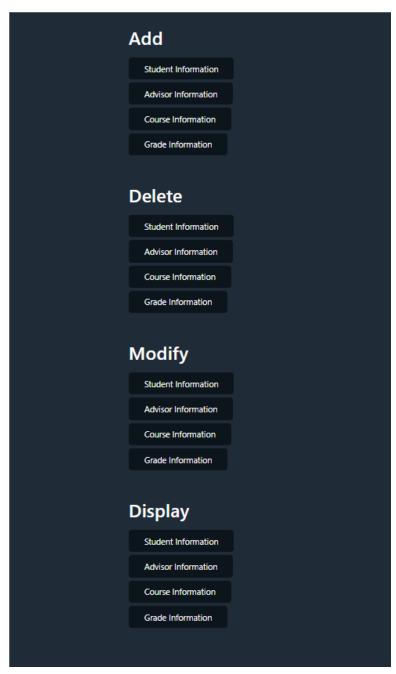




Once that is all set up, we are ready to access our database and utilize the program. You can minimize the terminal and XAMPP control. Now, open a web browser and search http://localhost:8080/MainMenu.html.

Main Menu

We are immediately introduced to the main menu screen. Here, we find that we can access every function that the program has to offer. There are four distinct functions; "Add", "Delete", "Modify", and "Display". Under each function, there are specific tables that we can either add to, delete from, modify, or display (query). These tables are the student, advisor, course, and grade tables.



Adding Records

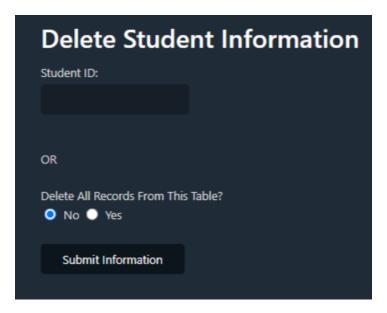
Adding records to the various tables is straight forward. Select which table you would like to add to. You will then be brought to a new page. For example, if you were to enter the "Add Student Information" page, you are greeted with all the available fields that can be entered for a student in the student table followed by a submit button at the bottom. Enter the information necessary and then click submit to save it to the table. This goes for the other three add tables as well.

Student Information		
Student ID Number:		
Student First Name:		
Student Last Name:		
Student Initials:		
Student's Major:		
Student's Classification:		
×		
Advisor ID:		
Submit Information		

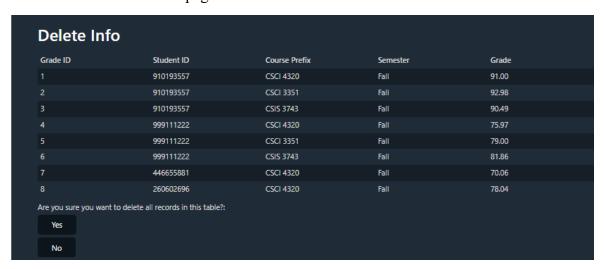
Deleting Records

In order to delete a record, the record in question must first exist. Assuming that we have already added records to one or more of the four tables, we can click on any of the four Delete Information buttons. We will then be taken to a page that will ask us to enter an identifying key for the record we want to delete (Student ID, Advisor ID, Course Prefix, and Grade ID). Alternatively, we are also given the option to delete all the records in the specific table. Only one can be entered though; either enter the identifying key or select to delete all records. Once a decision has been made, we are brought to a page that previews the data that is about to be deleted, asking one last time if we are sure if we want to delete the data. We are given the option to either follow through with the deletion or to turn back and return to the previous page. Click Yes if you want to delete the record or No to be sent back to the previous page.

Delete student form:



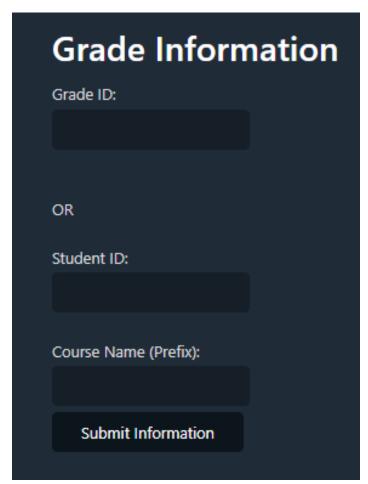
Delete records verification page:



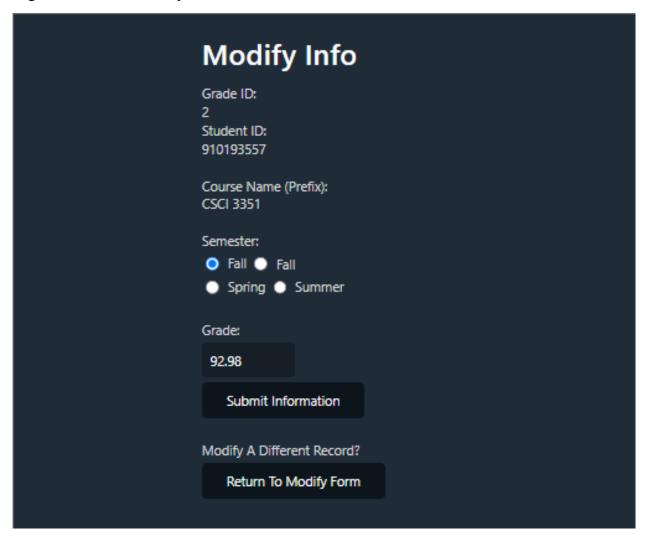
Modifying Records

Modifying data in the database takes a similar approach to that of deleting records. When we click on any of the buttons, we are once again brought to a page asking for an identifying key, or in some cases, asking for two identifying keys. Using the Modify Grades Information page as an example, we can see that we are being prompted to either enter the Grade ID of the specific record. However, if we don't know the Grade ID yet, we can still search for a record by entering the Student ID and Course Prefix of the grade record in question. Once we have submitted the information, if the record exists, we are brought to a page that will then display all the information for that specific record. The text boxes will already be populated with the current information, and from there, we are able to modify the information to our liking. At the bottom, we are given the option to submit our changes, or to return to the previous page to modify a different record. Click submit information to finalize your changes or press the return button to modify a different record.

Modify grade information form:



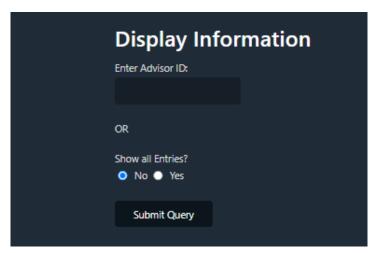
Page where we can modify the record's information:



Displaying (Querying) Records

Similarly, to the Delete Information pages, the Display Information pages prompt us to either enter an identifying key or select to show all entries at once. Also, like the Delete Information Pages, we cannot choose to show all entries while also entering an identifying key. We must choose to enter one or the other. Once we have entered our information, we are brought to a page that will retrieve the record(s) in question. For a single advisor and/or student record query, we are shown a little more information than just the single record. For the advisor query, we are shown the advisor's information, but we are also shown in a separate table all the students that are being advised by that advisor. Similarly in the student query, we are shown the student's record as well as all the courses that student has taken. At the bottom of the page, we are asked if we'd like to make another query or to return to the main menu.

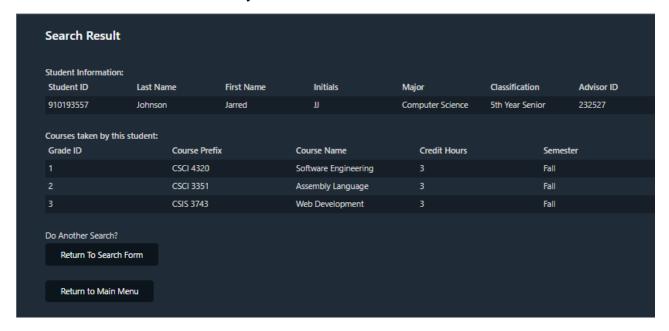
Display advisor information form:



Advisor's record and the students they advise:

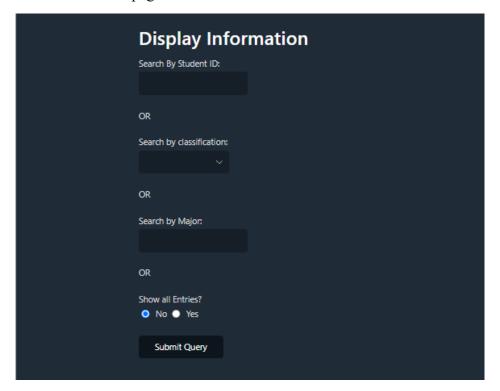
Search Result					
Advisor's Info: Advisor ID	Last Name	First Name	Initials	Job Title	December
123456	Yousif	Nabil	NY	Professor	Department Computer Science
Students advised by th	is advisor:				
Student ID	Last Name	First Na	ame	Major	Classification
000000000	Fodder	John		Interior Design	Freshman
426684753	Clarke	Caitlin		Chemistry	Sophomore
446655881	Doo	Scooby		Animal Science	Freshman
493943759	Parrish	Serenti	у	SP	Freshman
Do Another Search?					
Return To Search Fo	orm				
Return to Main Me	nu				

Student's record and the courses they have taken:

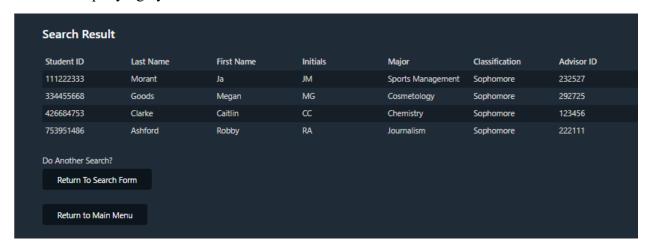


In the case of the Display Student Information page, we are also given the ability to display student records based on their major and their classification as well. Just make sure that you only pick one method of displaying information; you cannot search a record by entering a student ID and a major. Only one field can be filled out for this query.

Query by student information page:



Results for querying by classification:



Results for querying by major:

