BIRZEIT UNIVERSITY

Computer Science Department

Web Application and Technologies (COMP 334)

First Semester 2023/2024

Assignment 3: PHP ***Due Date 18/01/2024***

Objectives

To practice sessions, MySQL processing through php scripts.

Notes:

- You must define your database connection details in a separate file called "dbconfig.in.php", it should **define** the required variables used to create a connection and ***create a PDO object*****. The database connection must be of type PDO.**
- You should always use **ONLY** prepared statements with named binding parameters for any database SQL.

Overview

For this assignment, you will develop a web application using PHP and a database that allows users to register, view, update, and delete students on the system. The main script of your application is called "students.php", which is a self-reference script. When called dynamically generates an HTML page as shown in Figure 1 below. The page has two parts, the first link is to Register a new student, and the second is the students' table list. Note when the script is called table should display all the students' records. The table is displayed as shown in Figure 1, below. The action buttons in each row are a series of <button> elements with a link to the appropriate PHP script and an image within the button. See the description for edit and delete actions below.

To Register a new student click on the following link Register.

Or use the actions below to edit or delete a student's record.

Studnets Table Result

Student Photo	Student ID	Student Name	Average	Department	Actions
	11213568	Ali Mansour	85	Computer Science	
	11214466	Ahmed Abo Omer	90	History	
	11220055	Samier Al-Kateeb	82.6	Computer Engineering	

Figure 1: students.php

Actions:

View: The student ID should be hyperlinked, and the anchor element should refer to the "view.php" script, so when clicked a GET request will be sent. Combine the query string with anchor tags, so the "view.php" script receives as input a query string consisting of the student ID that specifies which students to display. The"view.php" script dynamically creates an HTML as shown in Figure 2. Student details are retrieved from the database. if an invalid ID has been sent an HMTL page with an error message should be displayed.

Studnet ID: 11213568, Name Ali Mansour

- Average: 85
- Department: Computer Science
- date of birth 15/05/2001

contact

Send Email to: 11213568@student.bzu.edu.ps

Tel. +970594667788

Address:Ramallah, Palestine

Figure 2: student's Detail Page

Register: When the user clicks the register link, the request will be sent to the “register.php” script. The script is a self-reference script, if no data has been sent, a form is generated as shown in Figure 3, otherwise, the data is retrieved from the form and then stored in the database. The form's method attribute should be set to POST and action to “register.php”. The student photo should be uploaded to a folder called “images”, only accept an image of type “jpeg”, and rename it to be the same as the student ID. For instance, if you have a student with an ID is ‘11213568’, the file name should be ‘11213568.jpeg’. Also, you can save the file name in the database.

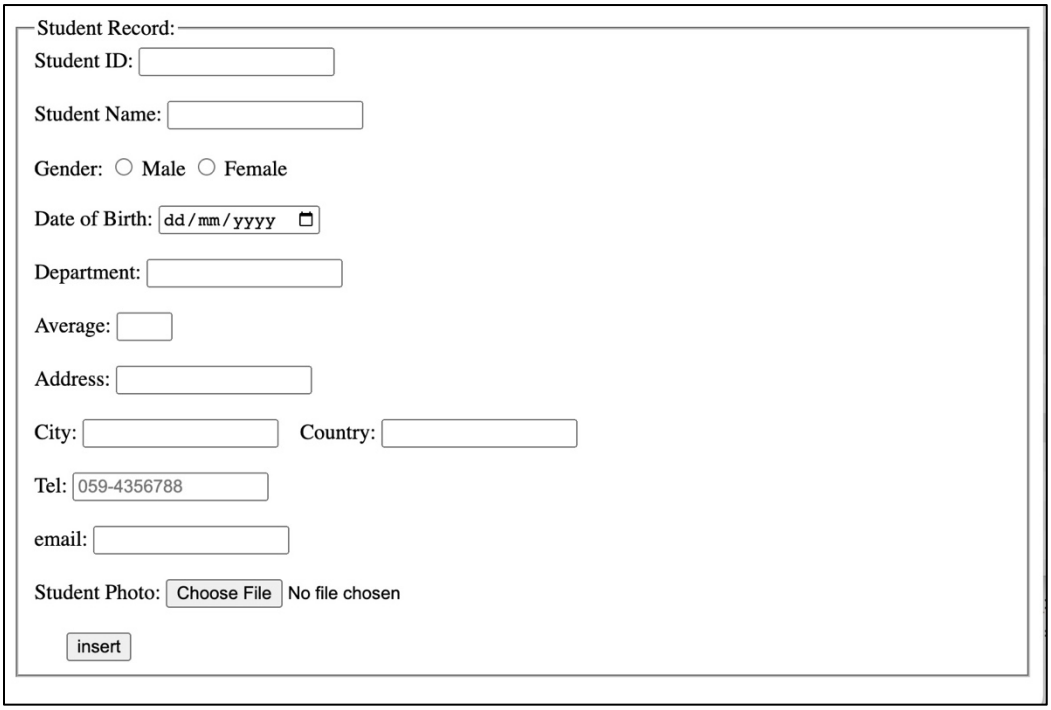

Figure 3: Student Registration Page

Delete ( ) when clicked a get request with the student ID sent to the “delete.php” script. which deletes the student record from the database. Also, you need to combine the query string with anchor tags as discussed in the View action above.

Edit ( ) allows an applicant to update the information present in the database when clicking a get request with the student ID sent to the “edit.php” script. Also, you need to combine the query string with anchor tags as discussed in the View action above. The edit script returns an HTML page with a form filled with the student’s details, which are retrieved from the database, all the records are editable ***except*** the Student ID. Then the user sends the new student's information to the “edit.php” script which updates the student's information in the database. The page generated by the “edit.php” script is the same as shown in Figure 3 **except** change the button title to update and the form action

attribute should be set to “edit.php”. Also, the form input fields should be filled with the student’s data.

Placement of Assignment Files

- You must submit your files to CS Host.
- In the “public_html” folder, create a sub-folder called *assThree, and then upload all the assignments* files to it.
- You must update your home page (index.htm) file by *adding a link to the assignment Three main page*.
- You must create a database on the server named as “students” and load it with at least 10 records for testing. Also, the database Schema should be exported as SQL, the file name should be"students_yourNumber.sql".
- Also, you must compress (Zipped) all the assignment’s Three files, including the SQL file to a file named assThree-stID.zip and submit them to ITC before the due date.

 You must submit your work before the due date *which is on 18/01/2024 at 22:00 PM*, by uploading it to the CS host and submitting it to the ITC,