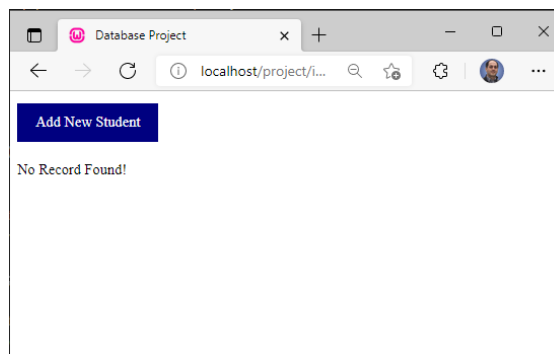


You are asked to create a web application containing a database.

1. Create a database in your MySQL environment. You do not need to create this database by PHP. Name this database **3280db** and run your SQL code in your MySQL environment (MySQL Workbench) to create it.
2. After creating your database, create a table in this newly created database. Call this table **Student**. This table has the following columns:
 - **StdID** integer value. This is the primary key
 - **SName** variable string of maximum 30 characters
 - **BirthDate** its type is DATE,
 - **Gender** 1 fixed character (F, M, or X)
 - **Department** fixed-length max 4 character

You create this database in Workbench.

3. Create your homepage and call it **index.php**. your homepage always lists all students in the database. If there is no data in the table, your App displays “No Record Found!”. There is always a button on top of the homepage for Adding a new Students. This button is a hyperlink pointing to the **insert.php** file.

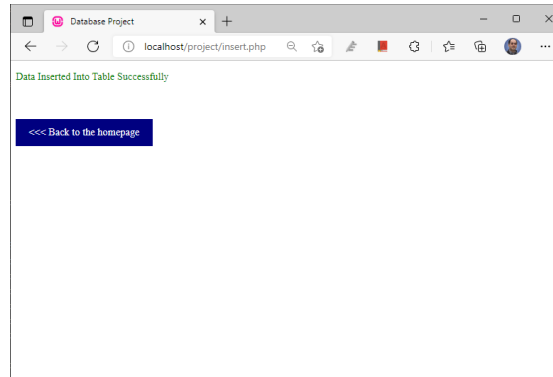


4. In the **insert.php**, you use an if-else for checking the REQUEST_METHOD for displaying the form or processing the form. Further detail about this technique is in **Chapter7-Web Forms**.
5. The form must look like below. Departments are CSIS, ART, MATH, and PHYS.

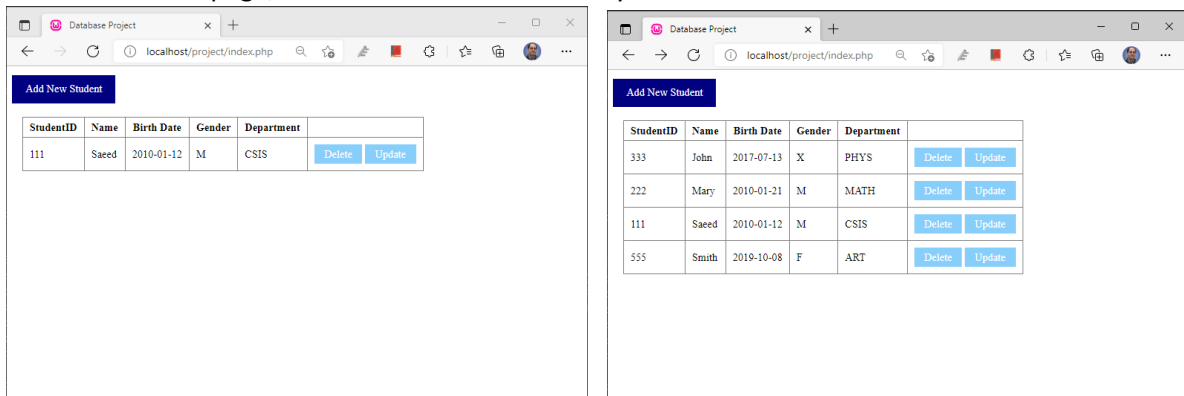
6. All form fields (data entered by the user) must be validated by your PHP code.
 - a. Student ID, Name, and Departments cannot be submitted null. Birthdate and gender can be null.
 - b. Student ID must be a valid Integer value
 - c. Department can contain only 4 values: CSIS, ART, MATH, and PHYS. Your PHP code validates it to prevent the user to submit any other value.

- d. If the input is not valid (according to the points above) your program must display an error message on the right side of the corresponding field.

7. If data inserted successfully, the following message is displayed



8. Going back to the homepage, we must see the list of newly inserted data:



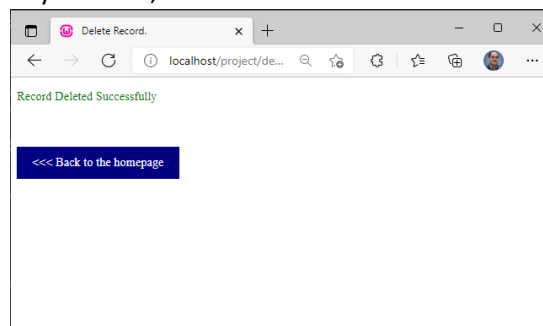
9. As you can see on the last column of the table, in front of every student, there is two buttons: **Delete**, **Update**. These two buttons are hyperlinks, styled by CSS to look like a button (a CSS file is provided to you). You must implement something like

`Delete`

Or

`Update`

10. If we click on Delete button for every student, the record of that students is deleted.



11. Going back to the homepage, we can see that the student deleted.

The screenshot shows a web browser window titled 'Database Project'. Below the browser's address bar, there is a blue button labeled 'Add New Student'. Below this button is a table with the following data:

StudentID	Name	Birth Date	Gender	Department	
222	Mary	2010-01-21	M	MATH	<input type="button" value="Delete"/> <input type="button" value="Update"/>
111	Saeed	2010-01-12	M	CSIS	<input type="button" value="Delete"/> <input type="button" value="Update"/>
555	Smith	2019-10-08	F	ART	<input type="button" value="Delete"/> <input type="button" value="Update"/>

12. If we click on Update, **update.php** is executed and the form appears but the form is filled with current values. You can use the attribute **value** of `<input>` and set **checked** for the radio buttons (you must use an if-statement to find which radio button must be set to **checked**. You must use also 4 if-statements to find which `<option>` must be set to **selected**.

The screenshot shows a web browser window titled 'Update Record...'. The form contains the following fields and options:

- Student ID:
- Name:
- Birth Date:
- Gender:
 - ☒ Female
 - ☐ Male
 - ☐ Other
- Department:
-

Below the form is a blue button labeled '<<< Back to the homepage'.

13. Then use can change any value and press Update, to update the record. Note, displaying the form with the current values and updating the record, both is done in the **update.php** file.

Submission:

All files, index.php, delete.php, insert.php, and update.php and any other file you created, including .css file provided to you must be zipped and submit as a single .zip file in the assigned folder before the due time.

Name the file as xy_final.zip, where x is your firstname and y is your last name.