

Green University of Bangladesh

Department of Computer Science and Engineering (CSE) Semester: (Spring, Year: 2025), B.Sc. in CSE (Day)

Lab Report 04 - PET Management System

Course Title: Integrated Design Project II

Course Code: CSE-406 Section: 213 D7

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Lab Project Status			
Marks:	Signature:		
Comments:	Date:		

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Chapter 1

1.1 Title Of The Lab Report Experiment

- Create database using PHP.
- Perform various operation(Created, Read, Update, Delete) in server site using PHP.

1.2 Objectives / Aim

- To understand the implementation of CRUD operations (Create, Read, Update, and Delete) using PHP and MySQL.
- To develop a dynamic web application that can interact with a database on the server.
- To enhance the understanding of server-side scripting with PHP.
- To learn how to handle form data and perform database queries securely.

1.3 Procedure

• Backend Language: PHP

• Database: MySQL

• Front-end: HTML (with optional CSS for styling)

• Operations Implemented:

- Create: Add a new record into the database.

- **Read:** Display records from the database.

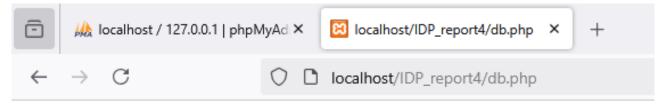
- Update: Modify existing records.

- **Delete:** Remove records from the database.

1.4 Implementation

```
db.php > ...
     <?php
     $servername = "localhost";
     $username = "root";
     $password = "";
     $dbname = "school";
     // Create connection
     $conn = new mysqli(hostname: $servername, username: $username,
     password: $password, database: $dbname);
     // Check connection
11
     if ($conn->connect_error) {
         die("Connection failed: " . $conn->connect_error);
12
     echo "Connected successfully";
     ?>
```

Figure 1.1: Connection Database Source Code.

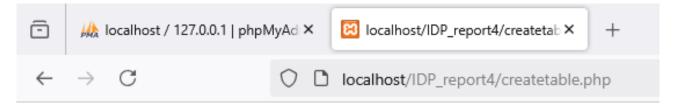


Connected successfully

Figure 1.2: Connection Successful Message.

```
createtable.php > ...
      <?php
     include("db.php");
     $sql="CREATE TABLE student
          name varchar(20) NOT NULL,
          age varchar(20) NOT NULL)";
   v if($conn-> query(query: $sql)==true){
          echo "succesfull";
10
11
12
13 \vee else{}
          echo "unsuccessfull";
14
15
16
17
     ?>
```

Figure 1.3: Create Table Source Code.



Connected successfully

Figure 1.4: Create Table Successful Message.

Create (insert.php): The newly added data appears when redirected to the listing (Read) page.

Figure 1.5: Read (index.php): Displays a dynamic table containing all records from the users table.

Figure 1.6: Update (edit.php and update.php): When clicking the update link, the user is taken to a form with pre-filled data of the selected record.

Figure 1.7: Delete (delete.php):

- Clicking the Delete link sends the user ID to the server.
- The corresponding row is removed from the users table.

Figure 1.8: delete.php

Overall, the output clearly demonstrates how server-side scripting using PHP can be used to manage database records efficiently through a web interface. All operations are performed in real-time and reflect immediately in the displayed data.

1.5 Test Result / Output

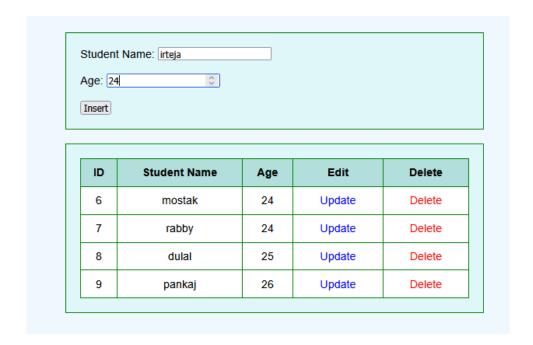


Figure 1.9: Add Student Information.

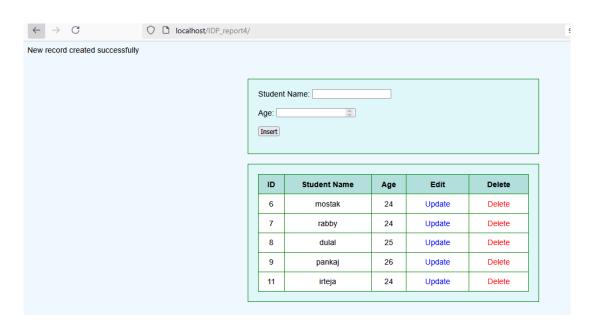


Figure 1.10: Show student information.

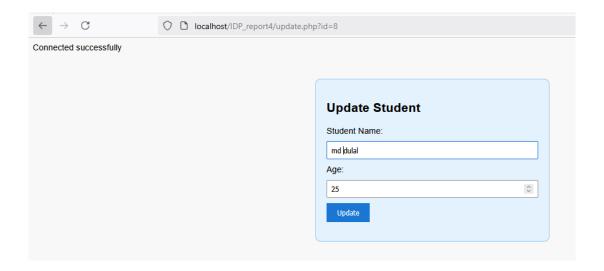


Figure 1.11: Update Student Information.

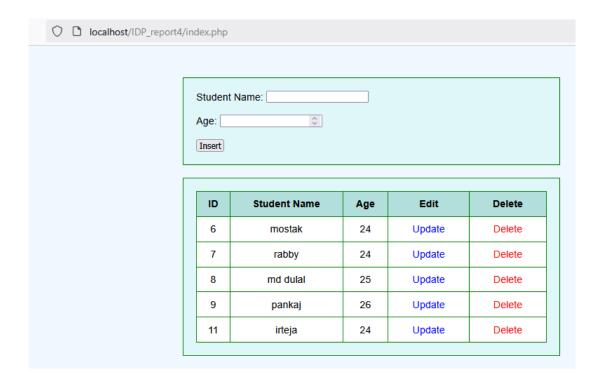


Figure 1.12: After Update show student information.

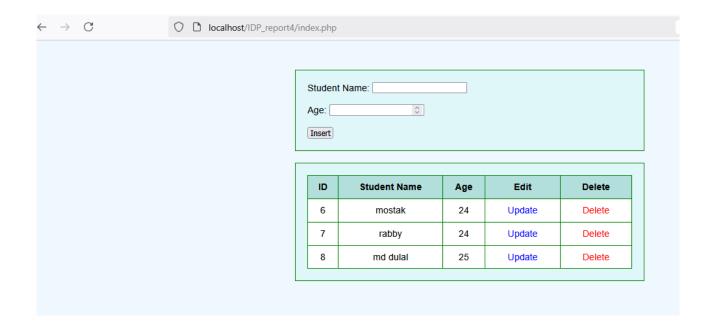


Figure 1.13: After Delete show student information.

1.6 Analysis and Discussion

The lab demonstrated the practical application of CRUD operations in PHP using MySQL as the database. Each function—Create, Read, Update, and Delete—plays a vital role in managing data dynamically on the server.

- Create: Users could enter new data through an HTML form, which PHP then processes and stores in the database.
- **Read:** Data retrieval was implemented using SELECT queries, and the results were presented in a clean tabular format. This is essential for any data-driven application to provide visibility of stored information.
- **Update:** The update functionality allowed modification of existing records. This part reinforced the importance of pre-filling form fields with current data for better user experience and using SQL UPDATE queries.
- **Delete:** The deletion was handled using a simple hyperlink with the user ID passed as a GET parameter. A DELETE SQL command executed the operation.