



# Uttara University

Department of  
**Computer Science and Engineering**

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## LAB REPORT

Course Name : Internet Programming Sessional  
Course Code : CSEC 422  
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### Submitted By:

Mahmudul Hasan Shihan  
ID: 2221081098  
Batch: 56(B)  
Dept. of CSE, UU

### Submitted To:

Md. Harun-Ar-Rashid  
Lecturer, UU

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# Database CRUD Operation Using PHP

## 1. Introduction

In this lab, I developed a simple CRUD (Create, Read, Update, Delete) web application using **PHP** as the backend language and **MySQL** as the database. The front-end interface was styled using **Tailwind CSS** along with **DaisyUI**, a component library built on top of Tailwind CSS. This project demonstrates how a user can interact with a database through a user-friendly UI to add, view, edit, and delete data records.

The purpose of this lab was to understand:

- How PHP interacts with MySQL for performing database operations.
- How to implement CRUD functionalities in a web application.
- How to use utility-first CSS with component libraries like DaisyUI to design responsive user interfaces.

## 2. Technologies Used

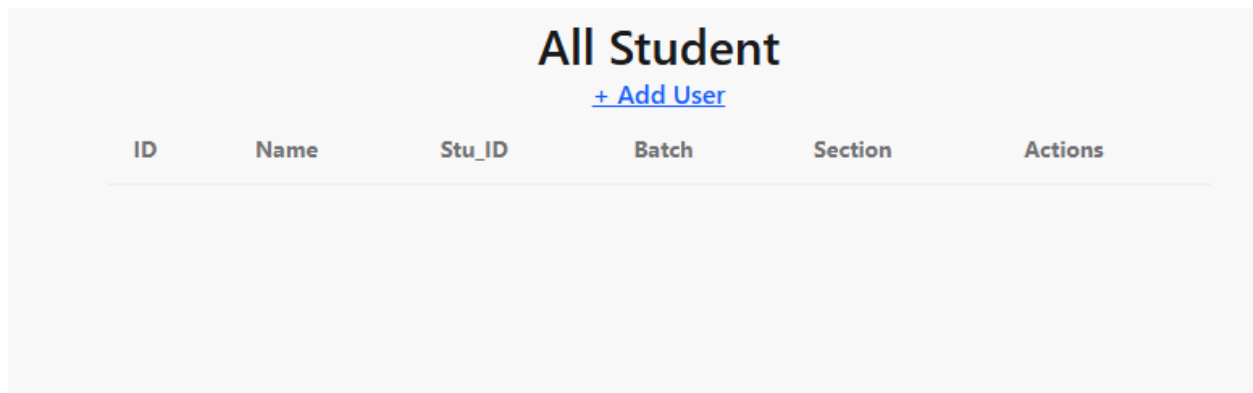
- **Front-end:** HTML, Tailwind CSS, DaisyUI
- **Back-end:** PHP
- **Database:** MySQL
- **Development Tools:** VS Code, XAMPP, GitHub

## 3. Features Implemented

- Create new records (e.g., user info, product, etc.)
- Display records in a table
- Edit existing records
- Delete records with confirmation
- Responsive UI with Tailwind CSS and DaisyUI

## 4. Step-by-Step Screenshots

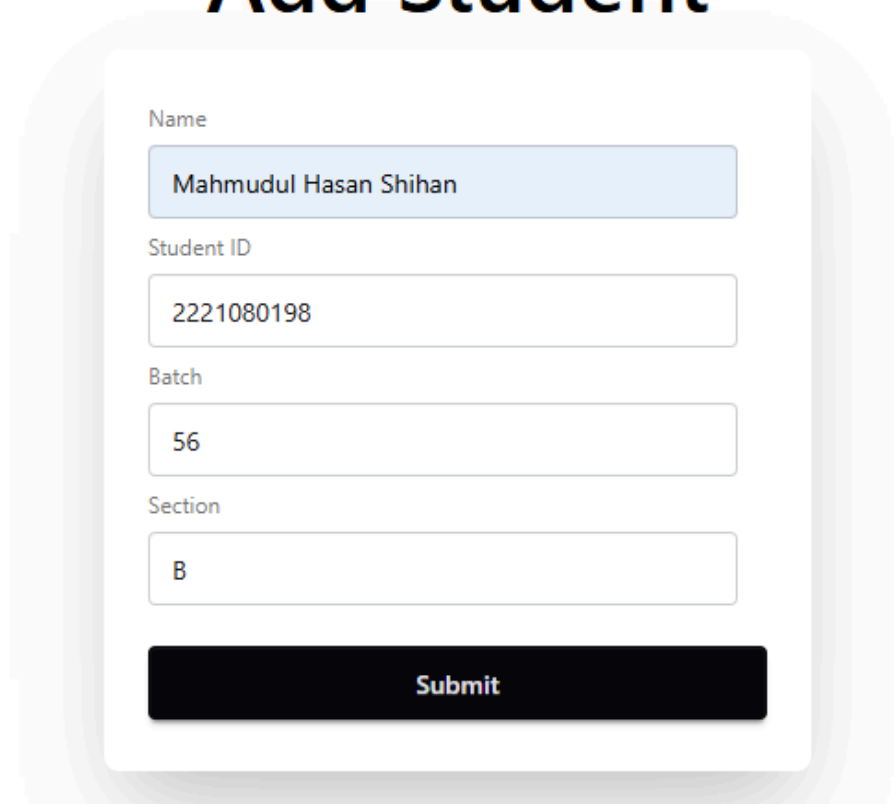
**Step 1:** Landing Page - Click “Add User” to add a New Student



## Step 2: Create Operation (Add New Record)

- Click on the 'Submit' button to add a new user.

# Add Student

A form titled 'Add Student' with four input fields and a submit button. The fields are labeled 'Name', 'Student ID', 'Batch', and 'Section'. The 'Name' field contains 'Mahmudul Hasan Shihan', 'Student ID' contains '2221080198', 'Batch' contains '56', and 'Section' contains 'B'. A black 'Submit' button is at the bottom.

Name
Mahmudul Hasan Shihan
Student ID
2221080198
Batch
56
Section
B
Submit

After adding a Student, the student info table looks like below.

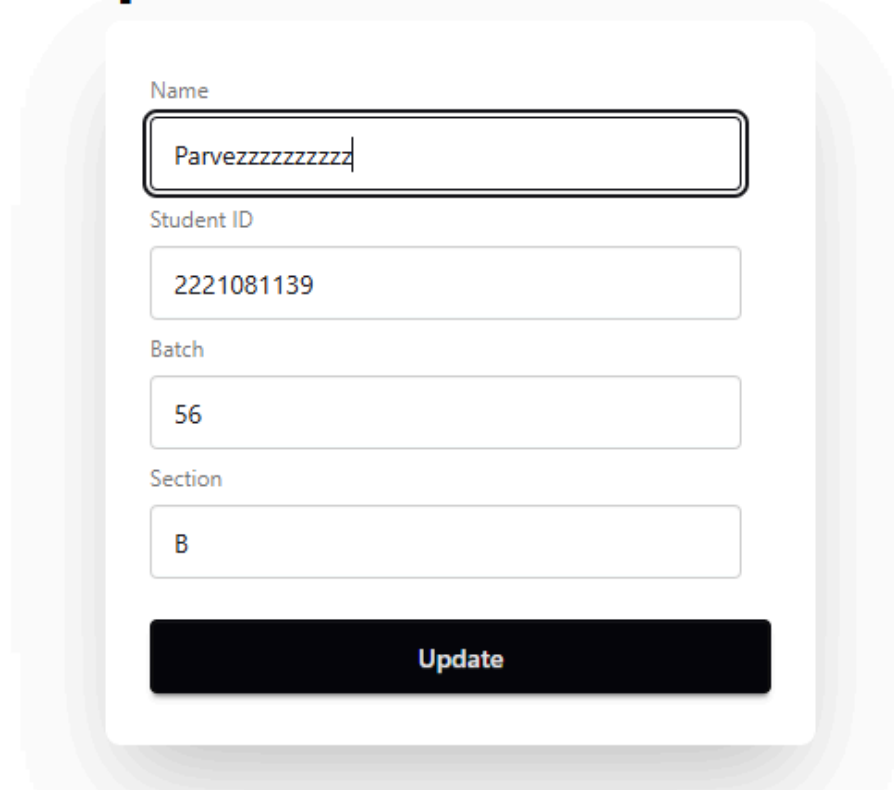
All Student					
<a href="#">+ Add User</a>					
ID	Name	Stu_ID	Batch	Section	Actions
25	Mahmudul Hasan Shihan	2221081098	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
26	Abdur Razzak	2221081081	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
27	Shadhin	2221081095	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
28	Parvez	2221081139	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>

## Step 3: Update Operation (Update Record)

- After clicking the update button, it navigates to the update page.
- User: Update the desired information

- After clicking update, the information would be updated.

## Update Student Info

A form for updating student information. It contains four input fields: Name (with text 'Parvezzzzzzzzzz'), Student ID (with text '2221081139'), Batch (with text '56'), and Section (with text 'B'). Below the fields is a black button with the text 'Update' in white.

Name

Parvezzzzzzzzzz

Student ID

2221081139

Batch

56

Section

B

Update

As the information is successfully updated, it shows a success message.

Connected successfully

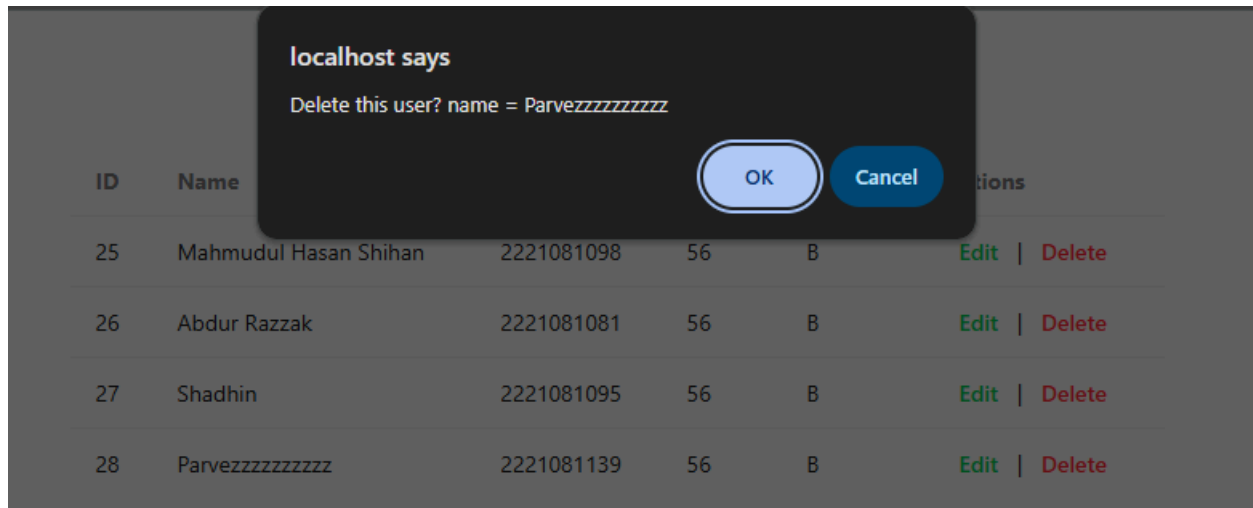
Updated successfully. Go Back

After updating the information.

All Student					
<a href="#">+ Add User</a>					
ID	Name	Stu_ID	Batch	Section	Actions
25	Mahmudul Hasan Shihan	2221081098	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
26	Abdur Razzak	2221081081	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
27	Shadhin	2221081095	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
28	Parvezzzzzzzzzz	2221081139	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>

#### Step 4: Delete Operation (Delete Record)

- Clicking on the 'Delete' button shows a pop-up for confirmation.
- After clicking ok, it will delete the record.



Record deleted successfully previously there was 4 students now it shows 3 student.

All Student					
<a href="#">+ Add User</a>					
ID	Name	Stu_ID	Batch	Section	Actions
25	Mahmudul Hasan Shihan	2221081098	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
26	Abdur Razzak	2221081081	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>
27	Shadhin	2221081095	56	B	<a href="#">Edit</a>   <a href="#">Delete</a>

## 5. Database Structure

```
CREATE TABLE IF NOT EXISTS student_info (  
  id INT AUTO_INCREMENT PRIMARY KEY,  
  name VARCHAR(100) NOT NULL,  
  stu_id VARCHAR(20) NOT NULL,  
  batch VARCHAR(20),  
  section VARCHAR(20)  
);
```

## 6. GitHub Repository

Anyone can view the full source code and instructions on how to run the project in the following GitHub repository:

<https://github.com/mh-shihan/Internet-Programming-UU/tree/main/lab-report-projects/final-lab-report>

## 6. GitHub Repository

This lab helped reinforce core web development concepts, including PHP scripting, database interaction, and responsive UI design. I was able to:

- Understand how server-side languages interact with databases.
- Implement essential CRUD functionalities.
- Use Tailwind CSS and DaisyUI to build an intuitive and clean UI.

Overall, this project improved both my front-end and back-end development skills and provided practical experience in building a full-stack web application.