



TAKORADI TECHNICAL UNIVERSITY

Faculty of Applied Science and Technology

Department of Computer Science

MID-SEMESTER EXAMINATION PROJECT REPORT

Course Registration System

Submitted by:

Name: Blaised Rich Ndede Ackah

Index Number: BC/ITS/23/014

Program: COMPUTER SCIENCE

Course Code:

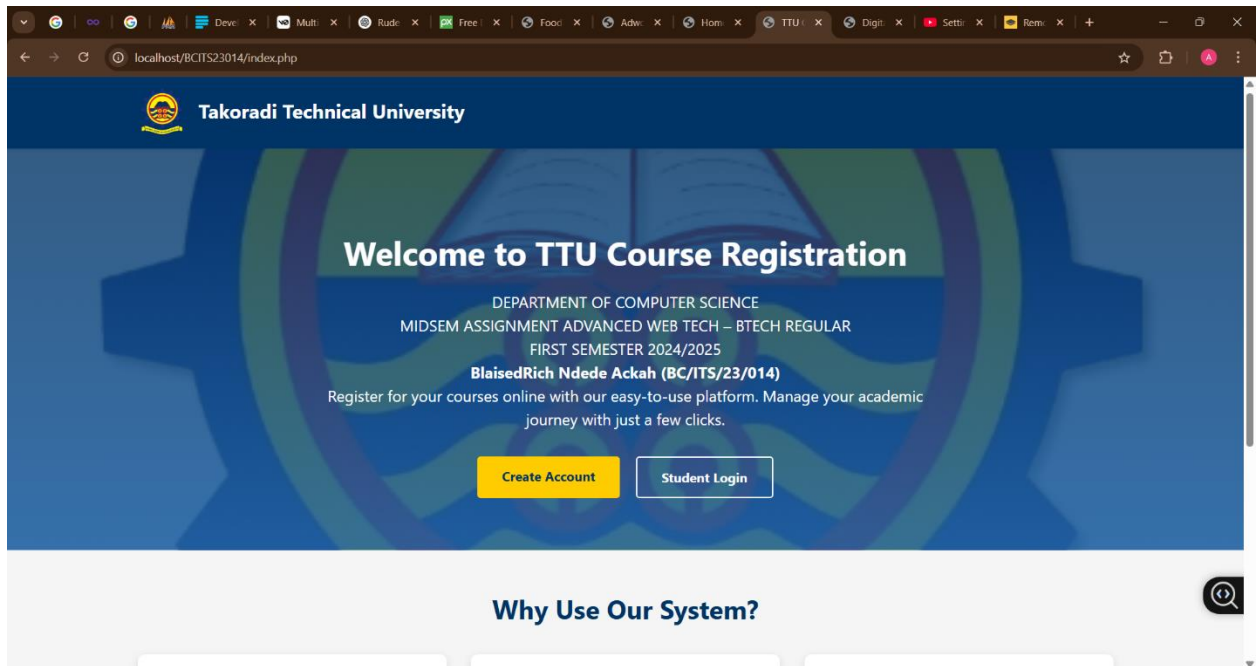
Course Title: ADVANCED WEB TECH – BTECH REGULAR

Lecturer: Mr. Anthony Emil

Date of Submission: 3rd APRIL, 2025

1. Introduction

This report documents the development of a web-based Course Registration System designed for Takoradi Technical University. The system enables students to register accounts, log in securely, and enroll in available courses, fulfilling the requirements for the mid-semester examination in ADVANCED WEB TECH – BTECH REGULAR. <https://bcits20014.rf.gd/index.php>



2. System Features

2.1 User Authentication Module

- Student Registration:

- Collects student details (Name, Email, Password)**
- Validates input fields (non-empty, valid email format)**
- Securely hashes passwords using ``password_hash()``**

- Login/Logout System:

- Session-based authentication (``$_SESSION``)**
- Redirects unauthorized users to the login page**

- Password Recovery:

- Students request reset via email**
- Requires HOD approval (simulated via pop-up notification)**

2.2 Course Management Module

- Course Catalog:

- Displays all available courses from the database**
- Shows course names and descriptions**

- Enrollment System:

- Students can enroll/unenroll with one click**
- Prevents duplicate enrollments (unique ``student_id` + `course_id``)**

3. Technical Implementation

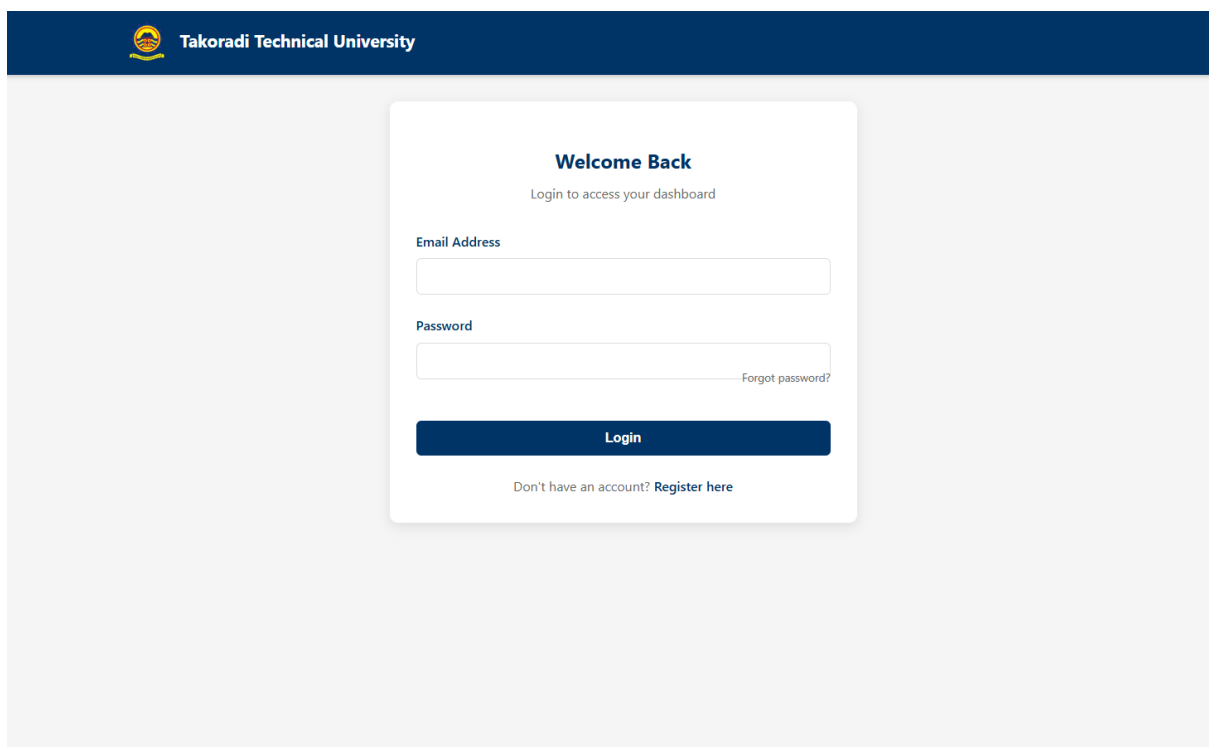
3.1 Technologies Used

- **Frontend: HTML5, CSS3, JavaScript**
- **Backend: PHP (Procedural)**
- **Database: MySQL**
- **Security: Prepared statements, password hashing**

4. System Screenshots

(Attach printed screenshots of:)

1. Login Page



The screenshot displays the login interface of the Takoradi Technical University. At the top, a dark blue header bar contains the university's logo and name. The main content area features a white login card with a light gray shadow. The card is titled 'Welcome Back' and includes a subtitle 'Login to access your dashboard'. It contains two input fields: 'Email Address' and 'Password'. A 'Forgot password?' link is positioned to the right of the password field. Below the fields is a dark blue 'Login' button. At the bottom of the card, a link 'Don't have an account? Register here' is provided.

Takoradi Technical University

Welcome Back
Login to access your dashboard


Email Address

Password
 [Forgot password?](#)

Login

Don't have an account? [Register here](#)

2. Registration Page

 **Takoradi Technical University**

Create Your Account

Register to access the course registration system

Full Name

Email Address


Password

Must be at least 6 characters

Register

Already have an account? [Login here](#)

3. Dashboard (Course Listing & Enrollments)

 **Takoradi Technical University**

Welcome, Elliot Atta Enchill **Logout**

Available Courses

Introduction to Programming

Learn basic programming concepts

Enroll

Web Development

Build websites with HTML, CSS, and JavaScript

Enroll

Database Systems

Learn about relational databases and SQL

Enroll

Data Structures

Understand fundamental data structures

Enroll

Computer Networks

Learn how networks operate

Enroll

Java Programming

Core Java programming concepts and applications

Enroll

Human Computer Interaction

Principles of user interface design and interaction

Enroll

Software Engineering

Software development methodologies and practices

Enroll

E-Commerce

Electronic commerce systems and business models

Enroll

Computer Networks

Network architectures, protocols, and implementations

Enroll

Operating System

OS concepts, processes, memory management

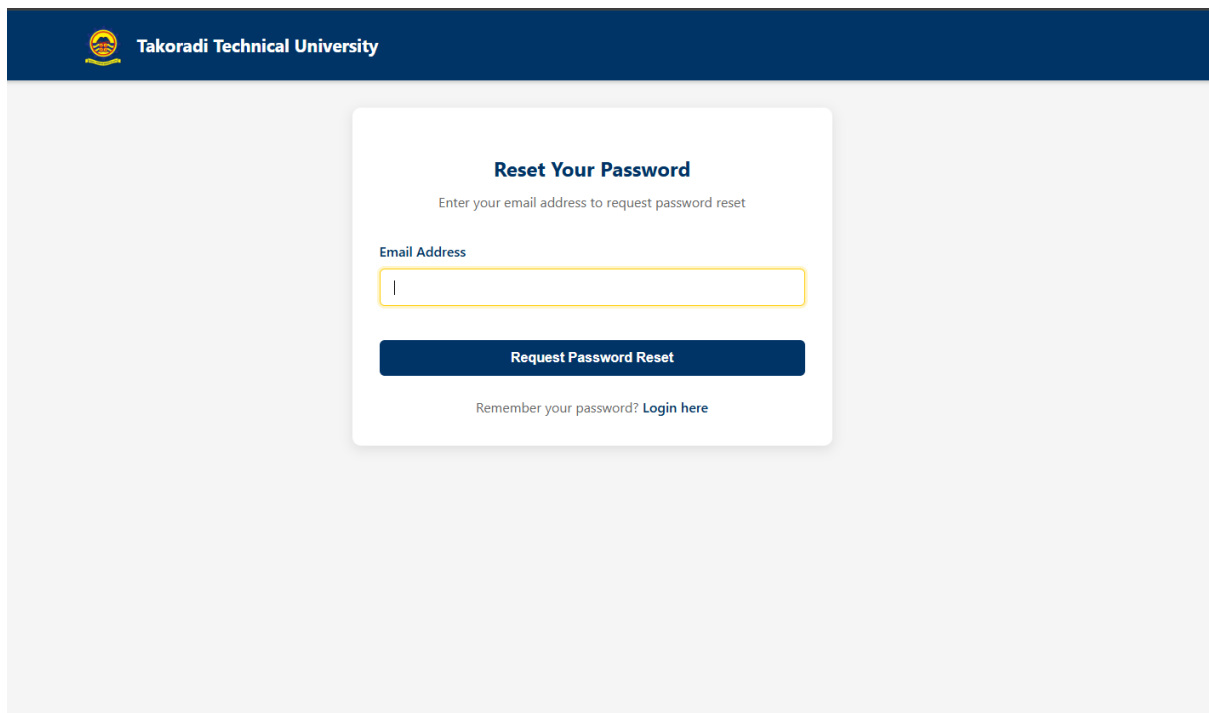
Enroll

Principles of Management

Fundamentals of business management

Enroll

4. Password Reset Prompt



The screenshot shows a web interface for Takoradi Technical University. At the top is a dark blue header with the university's logo and name. Below the header is a light gray background. In the center is a white card titled "Reset Your Password". Inside the card, there is a sub-header "Reset Your Password" followed by the instruction "Enter your email address to request password reset". Below this is a label "Email Address" above a text input field with a yellow border. Under the input field is a dark blue button labeled "Request Password Reset". At the bottom of the card, there is a link "Remember your password? Login here".

5. Challenges & Solutions

- i. Session management errors so I used Used ``session_status()`` checks
- ii. SQL injection risks so I Implemented PDO prepared statements
- iii. Password security so I used Used ``password_hash()`` and ``password_verify()``

6. Conclusion

The system meets all specified requirements, providing:

- ✓ Secure user authentication
- ✓ Efficient course enrollment
- ✓ Clean, responsive interface

Recommendations for Future Work:

- Add admin panel for course management
- Implement email notifications
- Develop a student profile dashboard

Declaration:

I hereby declare that this project is my original work, developed for academic purposes.

Student's Signature: _____

Date: 3rd APRIL, 2025

APPENDICES

- Appendix A: SQL Schema
- Appendix B: Screenshots
- Appendix C: References