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COURSE CODE

CSC 392

COURSE TITLE

PRACTICAL APPLICATION

OF

SOFTWARE DEVELOPMENT IN INDUSTRY

REPORT ON PRACTICAL APPLICATION OF SOFTWARE DEVELOPMENT IN INDUSTRY

SOFTWARE DEVELOPMENT

This is the process of creating or building an application or a platform used to perform a specific task. It is the process of creating a well refined system to solve a real-life problem and make our activities easier and/or to ease the use of computer and provide comfortability while interacting with the computer.

DESCRIPTION OF SOFTWARE DEVELOPMENT PROJECT

This Project is a Web-based Record System for Babtech Computers student. It is used to manage students' record and information. it is a platform where the admin can create a new student record, modify the students' record including their payment's history also help to track their enquiry records information in case you wish to get back to them.

PROJECT DEPENDENCIES AND REQUIREMENTS

This Software project was built using HTML, CSS, PHP, JAVASCRIPT and MYSQL. All of these needs to run using the following tools;

Text Editor: it can be any text editor but the text editor used for this project is VISUAL STUDIO CODE.

Development Server: there are so many developments sever such as Xampp, Wamp etc. WAMP SERVER is used for this project.

PHP Version >= 5.4 with MYSQL database



A good laptop running on windows 7 and above.

INSTALLATION PROCESS

This are the steps to be taken to successfully run the software on your local host machine. After installing the dependencies:

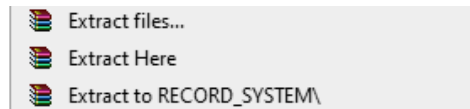
Step 1: Copy Source Code

Copy the attached zip file to this report to a folder on your local machine.

 190591209 SOFTWARE REPORT	6/19/2023 6:13 PM	Microsoft Word D...	2,220 KB
 RECORD_SYSTEM	6/18/2023 3:55 PM	WinRAR ZIP archive	6,733 KB

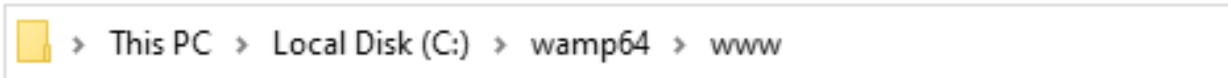
Step 2: Extract Source Code – RECORD

After copying the file use any file achiever of your choice to extract the content of the zip file.



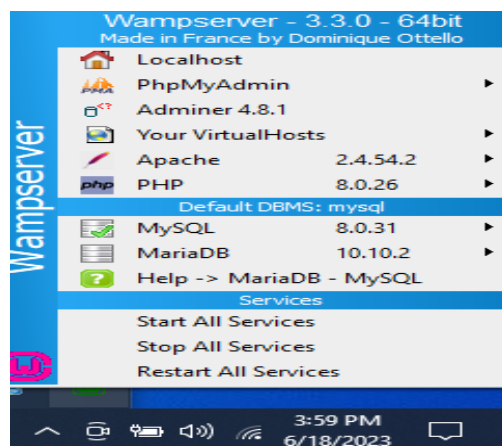
Step 3: Copy Project Folder

Then, copy the database folder from the extracted file and paste it into the wamp/www folder of your computer's internal storage.



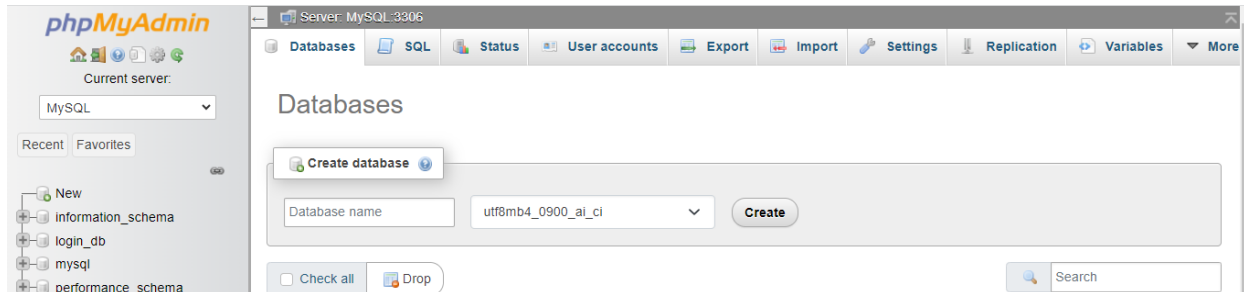
Step 4: Start your development server

Double click on the wamp server icon and it will start immediate. Then go to the tool bar to check swamp if all services are running



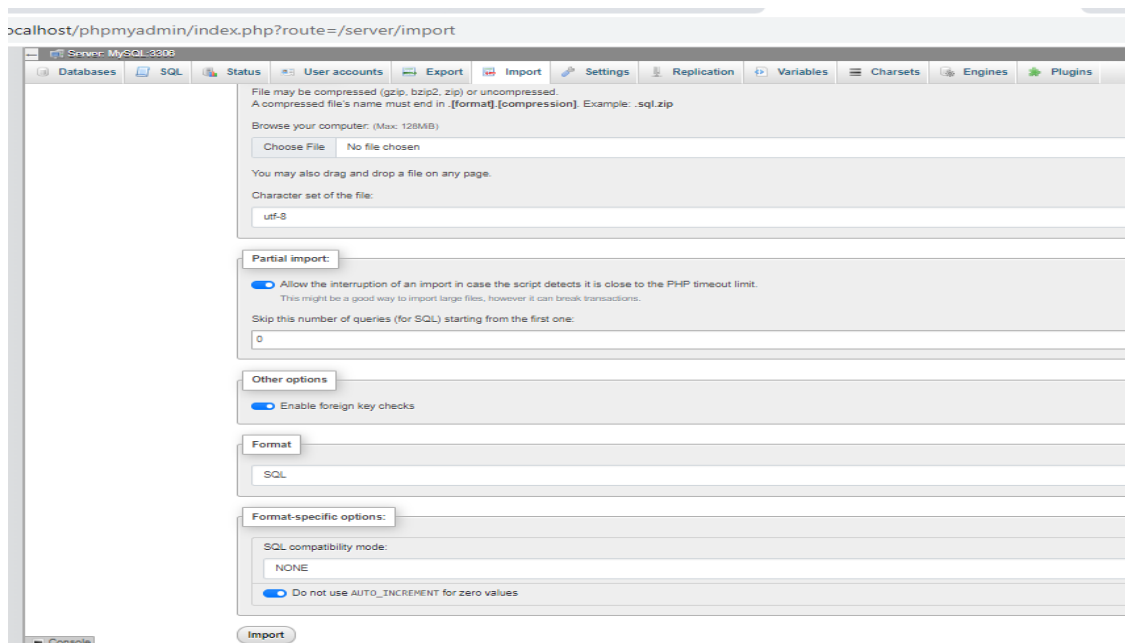
Step 5: Open your browser and create a new MySQL database

Open your browser, visit <https://localhost/phpmyadmin> . Select the “Databases” tab to create a new database and name the database ‘record’ and select ‘Create’.



Step 6: Import a database

In the folder extracted above, you will also find a database folder, with a database named ‘record.sql’. You will need to import this database in order to create the tables needed for this application to work correctly.



Step 7: Visit the project in your browser

If all the above steps are carefully followed, you will now be able to view the project in your browser. Follow this link to view – <https://localhost/SIWES>.

DATABASE STRUCTURE

USER DATABASE

id	varchar(15)
username	varchar(100)
password	varchar(100)

STUDENT DATABASE

student_id	varchar(15)
firstname	varchar(100)
lastname	varchar(100)
tel_no	varchar(11)
course	varchar(100)
amount	int
duration	varchar(10)
date_enrolled	date
due_date	date
statu	varchar(100)

ENQUIRY DATABASE

Firstname	varchar(100)
Lastname	varchar(100)
tel_no	varchar(11)
enq_date	date

PAYMENT DATABASE

student_id	varchar(15)
course	varchar(100)
amount	varchar(100)
payment	varchar(11)
p_tel	varchar(100)
p_date	int

FUNCTIONALITIES IN THE PROJECT

As admin you have access to do the following modification on the database.

- ✓ Create, retrieve, update/edit and delete all student record
- ✓ Create, retrieve, and delete all students' record
- ✓ Create, retrieve and delete enquiry information
- ✓ Filter and search through the whole record
- ✓ Retrieve student's full details while retrieving data from different table on the same page, therefore, showing the link/relationship between the tables.

Below are screenshots from a working version of the database project

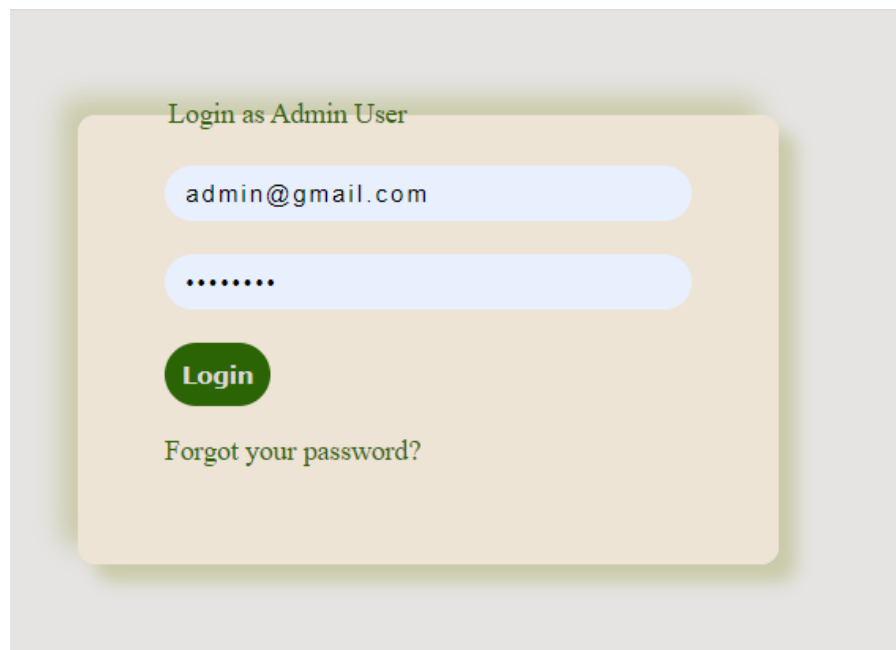
ADMIN LOGIN PAGE

Admin login page is required to restrict access to certain individuals. The admin login is

Username: admin@gmail.com

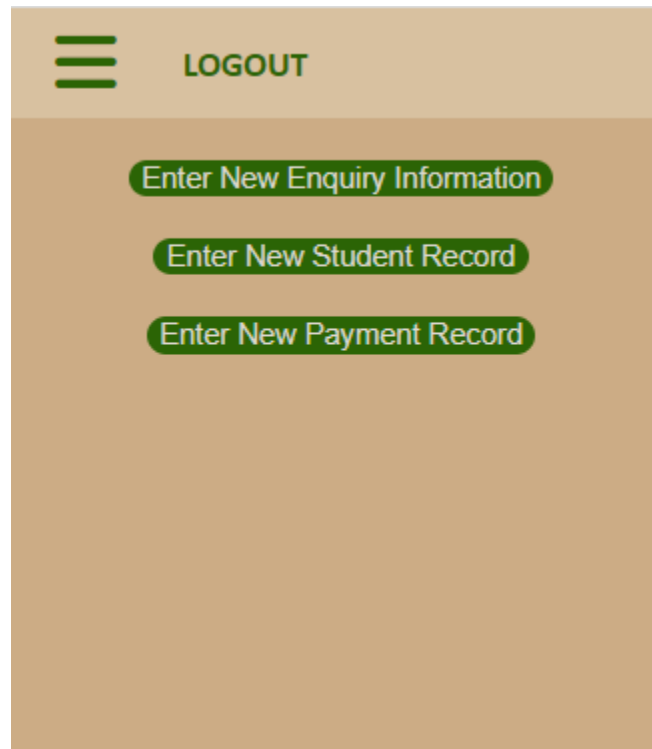
Password: admin001

After successful login the admin will be redirected to the home page. To put in records as required

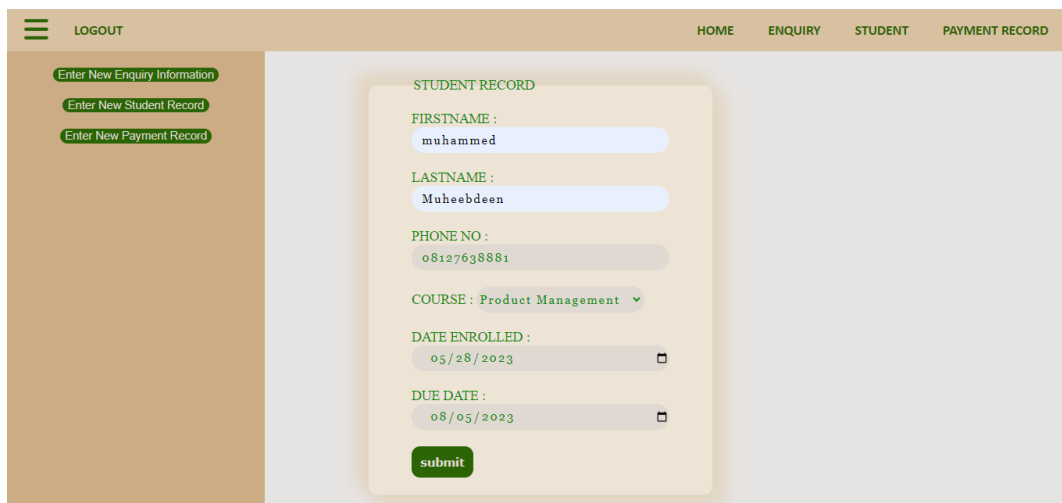


CREATE NEW STUDENT'S RECORD

The admin can create new record such as new enquiry information, new student record and new payment record using the menu button to show the menu bar and click on button of your choice to go to the input page.



The admin can create a student record by saving the entered values from this input page to the database using the submit button.

A screenshot of the "STUDENT RECORD" form. The form is displayed on a page with a header bar containing a hamburger menu, "LOGOUT", and navigation links: "HOME", "ENQUIRY", "STUDENT", and "PAYMENT RECORD". On the left side of the page, there is a sidebar with three buttons: "Enter New Enquiry Information", "Enter New Student Record", and "Enter New Payment Record". The "STUDENT RECORD" form itself is a light beige box with the following fields: "FIRSTNAME :" with the value "muhammed", "LASTNAME :" with the value "Muheebdeen", "PHONE NO :" with the value "08127638881", "COURSE : Product Management" with a dropdown arrow, "DATE ENROLLED :" with the value "05/28/2023" and a calendar icon, and "DUE DATE :" with the value "08/05/2023" and a calendar icon. At the bottom of the form is a green "submit" button.

RETRIEVE STUDENT RECORD

All Student Record

The admin can view all student records in the student page, the link to the student page is shown in the nav-bar. When it is clicked it retrieve all the student details in a table.

LOGOUT

HOME

ENQUIRY

STUDENT

PAYMENT RECORD

Filter by Course: All Courses

Filter by Status: All

Search : Search Using Student ID

GO

S/N	Student_Id	Firstname	Lastname	Telephone	Course	Fee	Duration	Date Enrolled	Due Date	Status		
1	23/ge-6144en...	Alonge	Muheebdeen	08186144782	Data Science	150000	4month(s)	2023-05-28	2023-10-07	Ongoing	DELETE	EDIT
2	23/la-6144en/nt	Damola	Muheebdeen	08186144782	Software De...	120000	4month(s)	2023-04-30	2023-09-09	Ongoing	DELETE	EDIT
3	23/at-3456de/ce	Waliyat	Agbede	08183456782	Data Science	150000	2month(s)	2023-05-28	2023-07-29	Ongoing	DELETE	EDIT
4	22/at-6144ni/is	Taofikat	Oladeni	08186144782	Data Analysis	100000	7month(s)	2022-11-27	2023-06-30	Completed	DELETE	EDIT
5	23/ia-3802en...	Fathia	Salaudeen	09173802836	Graphics De...	40000	2month(s)	2023-03-26	2023-06-03	Completed	DELETE	EDIT
6	23/la-407ni/ce	Damola	Oladeni	0908407386	Data Science	150000	6month(s)	2023-01-01	2023-07-08	Completed	DELETE	EDIT
7	23/at-7382ni/ce	Taofikat	Oladeni	09027382723	Data Science	150000	5month(s)	2023-01-01	2023-06-30	Completed	DELETE	EDIT

All Payment Record

The admin can also view all payment records in the payment page, the link to the payment page is shown in the nav-bar. When it is clicked it retrieve all the payment details in a table.

LOGOUT

HOME

ENQUIRY

STUDENT

PAYMENT RECORD

Filter by Course : All Courses

Search : Search Using Student ID

GO

S/N	Student ID	Course	Amount	Payment	Telephone	Date	
1	22/at-6144ni/is	Data Analysis	100000	100000	08186144782	2023-06-19	DELETE
2	23/ge-3456ah/ng	Desktop Publishing	50000	50000	08186144782	2023-06-12	DELETE
3	23/ge-6144en/ce	Data Science	150000	100000	08183456782	2023-06-18	DELETE
4	23/ge-6144en/ce	Data Science	150000	30000	08186144782	2023-06-18	DELETE

Each Student Details

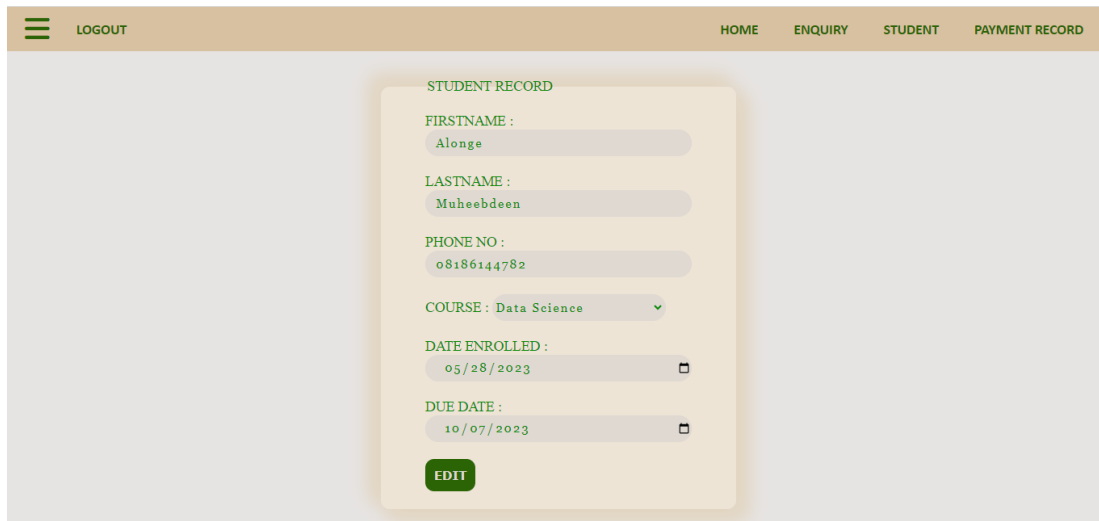
The admin can view a student full information in the home page, when the specific student id is entered it retrieve the student data in the student table and the payment info in the payment table. This shows the relationship between the two tables using the student id as the primary key and foreign key.

The screenshot displays a web application interface with a light gray background. At the top, there is a navigation bar with a hamburger menu icon and the text "LOGOUT" on the left, and links for "HOME", "ENQUIRY", "STUDENT", and "PAYMENT RECORD" on the right. In the center, a light orange rounded rectangle contains the following elements:

- A green heading "SHOW STUDENT DETAILS".
- A label "ENTER STUDENT ID" above a light gray input field.
- A green "ENTER" button below the input field.
- A green heading "STUDENT DETAILS" below the button.
- A list of student details, each with a green label and black text:
 - STUDENT ID : 23/ge-6144en/ce
 - FIRSTNAME : Alonge
 - LASTNAME : Muheebdeen
 - TELEPHONE : 08186144782
 - COURSE : Data Science
 - COURSE FEE : 150000
 - DURATION : 4month(s)
 - DATE ENROLLED : 2023-05-28
 - DUE DATE : 2023-10-07
 - TOTAL AMOUNT PAID : 130000
 - STUDENT STATUS : Ongoing

UPDATE STUDENT'S RECORD

The admin can update the information of a student by clicking on the edit button in the student page, and redirect to the input page, make changes then edit button. This will automatically update the information of the student.



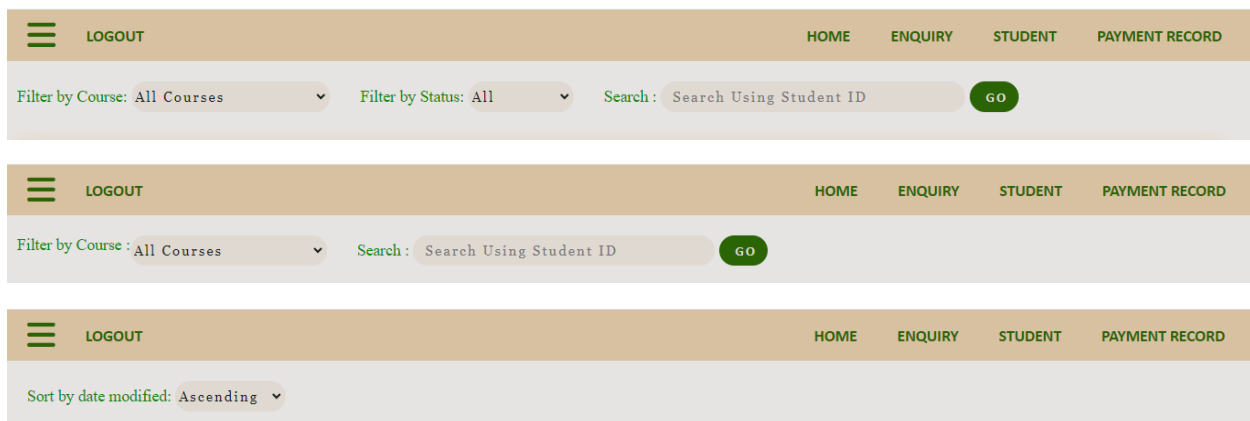
The screenshot shows a web application interface with a top navigation bar containing 'LOGOUT', 'HOME', 'ENQUIRY', 'STUDENT', and 'PAYMENT RECORD'. The main content area displays a 'STUDENT RECORD' form with the following fields: 'FIRSTNAME' (Alonge), 'LASTNAME' (Muheebdeen), 'PHONE NO' (08186144782), 'COURSE' (Data Science), 'DATE ENROLLED' (05/28/2023), and 'DUE DATE' (10/07/2023). Each field has a calendar icon for date selection. An 'EDIT' button is located at the bottom of the form.

DELETE STUDENT'S RECORD

A click on the delete button in the table will prompt a confirmation message and delete the particular student's record upon confirmation.

FILTER AND SEARCH THROUGH RECORD

To search through the data, a search bar is provided and the admin can also filter the record using course or status.



The first screenshot shows the top navigation bar and a filter/search section with 'Filter by Course: All Courses', 'Filter by Status: All', a search bar with 'Search Using Student ID', and a 'GO' button. The second screenshot shows the same interface with the search bar highlighted. The third screenshot shows the 'Sort by date modified: Ascending' dropdown menu.