UNIVERSITY MANAGEMENT SYSTEM

DATABASE SYSTEMS PROJECT

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Project Description: We focused on creating a web interface panel of the University Management System using HTML, PHP and SQL. First, we have created a SQL database called "UMS" and a table called "students". There are 3 attributes in the students table: ssid (Student ID), sname (Student Name) and ssurname (Student Surname). The primary key of this table is the "ssid" value. After this step, we started to work on PHP and HTML side of this web panel. We created the config.php file, which allows us to connect SQL to the VSCode to use HTML and PHP languages. We created the HTML code of the insertion page which allows a user to insert a student to the database by filling the required spaces such as Student ID, Student Name and the Student Surname (student_insertion.html). Then we worked on the PHP code of this insertion page (insertstudent.php). After creating this page, we created the admin page which allows a user to delete a student by selecting the name of him/her (admin.php and delete.php). As a final step, we worked on creating the selection page which allows a user to project the information of a student by filling in the ID of the wanted student (student_selection.html and index_selection.php).



Figure 1: Student Information Insertion Page



Figure 2.1: Error Case Example (all combinations are available.)

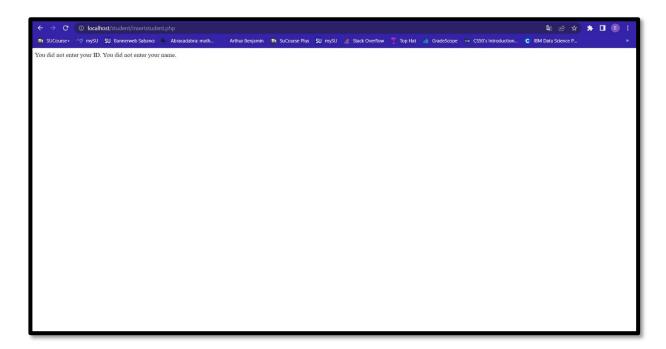
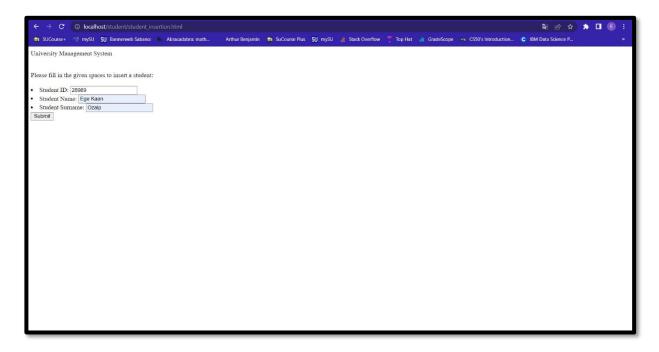
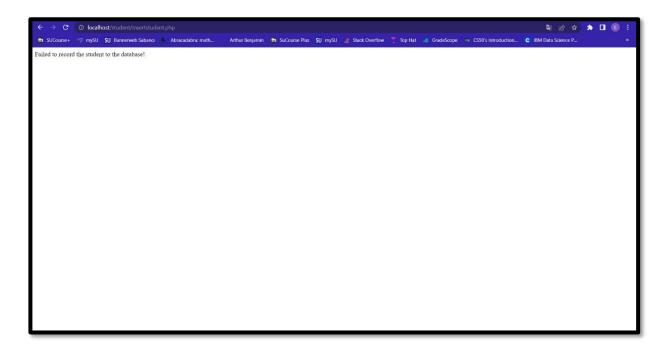


Figure 2.2: Error Case Message



 $Figure\ 2.3: Error\ Case\ Example\ (inserting\ an\ existing\ student.)$



 $Figure\ 2.4:\ Error\ Case\ Message\ (inserting\ an\ existing\ student.)$



Figure 3.1: Success Case Example

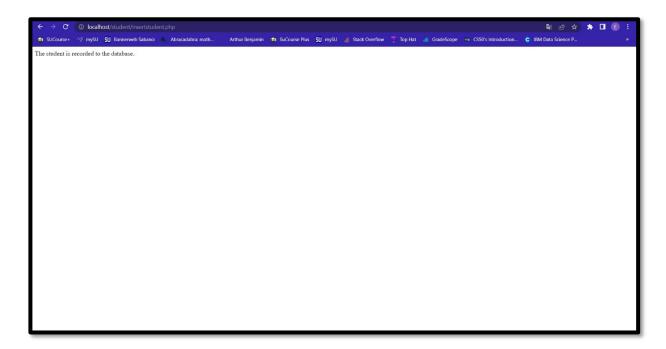


Figure 3.2: Success Case Message

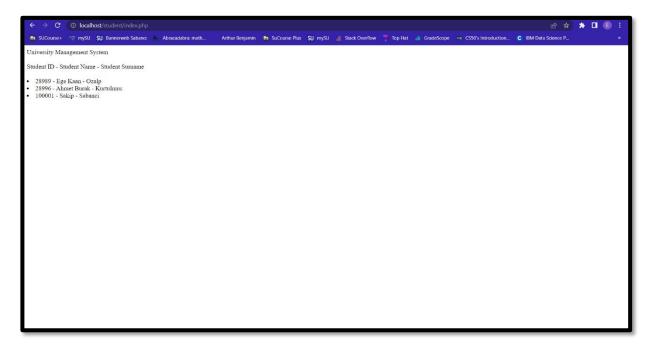


Figure 4: Index Page of the Insertion Operation



Figure 5: Student Selection Page



Figure 6.1: Success Case Example

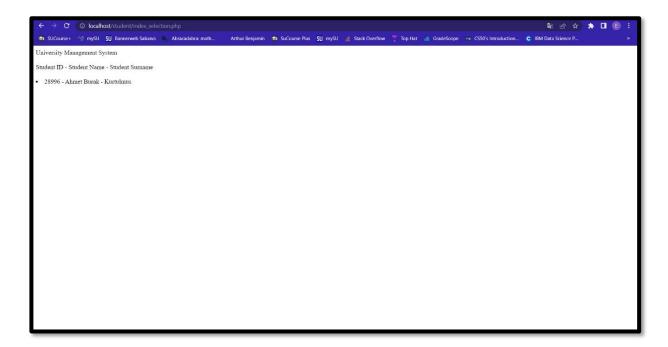


Figure 6.2: Success Case Index Page of the Selection Operation

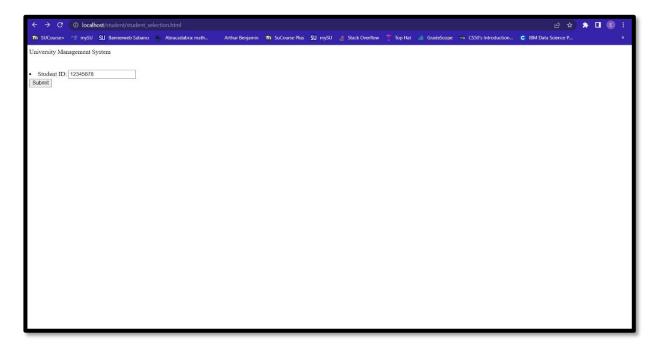


Figure 7.1 Failure Case Example



Figure 7.2: Failure Case Index Page of the Selection Operation



Figure 8.1: Deletion Page (Admin)



Figure 8.2: Deletion Page Success Message



Figure 9: Index Page of the Insertion Operation after the Deletion Operation $\,$

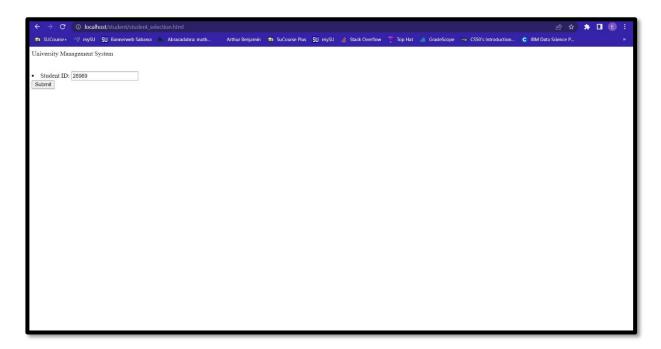
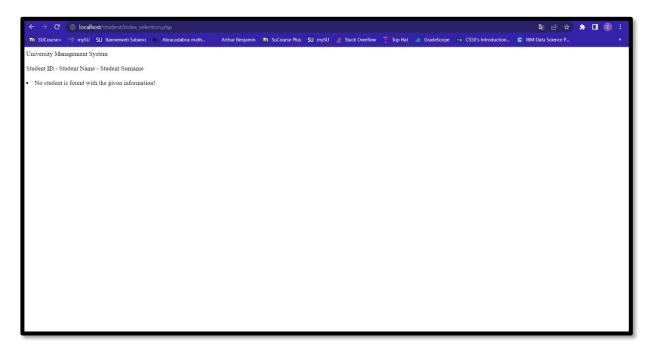


Figure 10.1: Selection Operation after the Deletion Operation (Fail Case)



 $Figure\ 10.2: Selection\ Operation\ after\ the\ Deletion\ Operation\ (Fail\ Case\ Message)$

Code Lines of student_selection.html:

Code Lines of student_insertion.html

Code Lines of insertstudent.php:

```
include "config.php";

if (!empty($_POST['ssid']))$student_id = $_POST['ssid'];
else echo "You did not enter your ID. ";

if (!empty($_POST['sname'])) $student_name = $_POST['sname'];
else echo "You did not enter your name. ";

if (!empty($_POST['ssurname'])) $student_surname = $_POST['ssurname'];
else echo "You did not enter your surname.";

if (!empty($_POST['ssid']) && !empty($_POST['sname']) &&
!empty($_POST['ssurname']))
```

```
{
    $sql_statement = "INSERT INTO students(ssid, sname, ssurname) VALUES
($student_id, '$student_name', '$student_surname')";
    $result = mysqli_query($db, $sql_statement);
    if($result == 1) echo "The student is recorded to the database.";
    else echo "Failed to record the student to the database!";
}
?>
```

Code Lines of index.php:

Code Lines of index_selection.php:

```
include "config.php"; // Makes mysql connection

$sql_statement = "SELECT * FROM students";

$result = mysqli_query($db, $sql_statement); // Executing query
$control = 0;
while($row = mysqli_fetch_assoc($result)) { // Iterating the result
    if($_POST['ssid'] == $row['ssid'])
    {
        echo "" . $row['ssid'] . " - " . $row['sname'] . " - " .

$row['ssurname'] . "<br/>
    $control = 1;
    }
}
if ($control == 0) echo "" . "No student is found with the given
information!"
}
```

Code Lines of delete.php:

```
<?php

include "config.php";

if(!empty($_POST['ids']))
{
    $student_id = $_POST['ids'];
    $sql_statement = "DELETE FROM students WHERE ssid = $student_id";
    $result = mysqli_query($db, $sql_statement);
    if($result == 1) echo "Student is deleted from the database.";
    else echo "An error occured!";
}

?>
```

Code Lines of config.php:

```
<?php

$db = mysqli_connect('localhost','root','','UMS');

if($db->connect_errno > 0){
    die('Unable to connect to database [' . $db->connect_error . ']');
}

?>
```

Code Lines of admin.php:

```
<?php
include "config.php";
University Management System
<br></br>
Please select a student to delete from the database:
</h>
<form action="delete.php" method="POST">
<select name="ids">
<?php
$sql_command = "SELECT ssid, sname, ssurname FROM students";
$myresult = mysqli_query($db, $sql_command);
    while($id_rows = mysqli_fetch_assoc($myresult))
        $student_id = $id_rows['ssid']; // LOCALHOST EDIT
       $student name = $id rows['sname'];
       $student_surname = $id_rows['ssurname'];
        echo "<option value=$student_id>". $student_name . " - " .
$student_surname . "</option>";
</select>
<button>DELETE
</form>
Code Lines of SQL:
CREATE TABLE students (
sid INTEGER,
sname VARCHAR(50),
ssurname VARCHAR(50),
PRIMARY KEY (sid)
```