



STIW3044: Web Engineering  
Semester A212  
School of Computing, CAS, UUM

## FRONT COVER

### MIDTERM EXAM

Name	Juanrico Alvaro
Matric No	702301
YouTube Presentation Link	<a href="https://youtu.be/2JwqQo1YKyo">https://youtu.be/2JwqQo1YKyo</a>
Phone Number	(+60)136798361 / (+62)81283185508
GitHub Link	<a href="https://github.com/victorico123/UUM-WebEngineering-Lab-2">https://github.com/victorico123/UUM-WebEngineering-Lab-2</a>
Submission Date	6/6/2022

#### Acknowledgment

I hereby acknowledge that the following works are from my effort in submitting this document. If found otherwise, severe action such as marks deduction or removal from the assignment can be taken against me.

#### Digital Signature

#### Students Picture



Email use during book purchase -

Your digital key from the book -  
purchase

**A212 WEB ENGINEERING MIDTERM ASSIGNMENT (100 MARKS)****Instructions**

The following task is a continuation of your lab assignment 2. The next step for the “MyTutor” web app is the login module, the subjects list page module, and the tutor’s list module. Your assignment is as follows. Change your text answer to blue

1. User Login Module: The login module allows a new user to log in to the “MyTutor” web application.
  - a. Implement the “remember me” function on the page. Show the required script to enable the feature.

10 Marks

- i. HTML

```
<div id="login_card" class="card landing-card login-card tabcontent" style="display: none">
    <div class="text-dark">
        <h3 class="card-title"><span style="color:blue">My</span><span class="tutor-text">Tutor</span></h3>
        <h5 style="color:blue">SIGN IN</h5>
        <p class="left">
            <form method="POST" action="login.php">
                <div class="form-group">
                    <label for="EmailInput" class="text-left">Email address <span style="color: red;">*</span></label>
                    <input type="email" class="form-control" id="EmailInput" name="email" aria-describedby="emailHelp" placeholder="Enter email" value="<?php if (isset($_COOKIE['email'])) {
                        echo $_COOKIE['email'];
                    } ?>">
                </div>
                <div class="form-group">
                    <label for="PasswordInput">Password <span style="color: red;">*</span></label>
                    <input type="password" class="form-control" id="PasswordInput" name="password" placeholder="Password" value="<?php if (isset($_COOKIE['password'])) {
```

```

                                                                    echo
$_COOKIE['password'];

                                                                    } ?>">
                                                                    </div>
                                                                    <div class="form-check">
                                                                    <input type="checkbox" class="form-check-
input" name="rem" id="rememberInput" <?php if (isset($_COOKIE['remember_me']))
{
                                                                    echo "checked";
                                                                    } ?>>
                                                                    <label class="form-check-label"
for="rememberInput">Remember Me</label>
                                                                    </div>
                                                                    <br>
                                                                    <?php
                                                                    if (isset($_GET['msgLogin'])) {
                                                                    $message = $_GET['msgLogin'];
                                                                    echo "<p class=\"text-danger\">$message</p>";
                                                                    }
                                                                    ?>
                                                                    <button type="submit" class="btn btn-
primary">Submit</button>
                                                                    </form>

                                                                    </p>
                                                                    <hr>
                                                                    <button class="btn btn-secondary tablinks">Sign
In</button>
                                                                    <button class="btn btn-primary tablinks"
onclick="openForm(event, 'register_card')">Sign
Up</button>
                                                                    </div>
                                                                    </div>

```

ii. JS

```

<script>
  let urlParams = new URLSearchParams(location.search)
  if (urlParams.get("form") == "register") {
    openForm(event, 'register_card');
  } else if (urlParams.get("form") == "login") {
    openForm(event, 'login_card');
  }

```

```
</script>
```

### I USE PHP FOR COOKIE REMEMBER ME

```
if (isset($_POST['rem'])) {  
    $remembering_timespan = time() + 7 * 24 * 60 * 60;  
    setcookie('email', $email, $remembering_timespan);  
    setcookie('password', $password, $remembering_timespan);  
    setcookie('remember_me', "checked",  
$remembering_timespan);  
    echo "remember me";  
} else {  
    setcookie("email", "", time() - 3600);  
    setcookie("password", "", time() - 3600);  
    setcookie("remember_me", "", time() - 3600);  
    echo "remember me not";  
}
```

### iii. CSS

```
label {  
    display: inline-block;  
    margin-bottom: .5rem;  
    text-align: left;  
    width: 100%;  
}
```

```
.login-card {  
    border-radius: 15px 50px;  
    width: 45%;  
    padding: 2%;  
    margin: auto;  
}
```

### I USE BOOTSTRAP CLASS

```
<label class="form-check-label" for="rememberInput">Remember Me</label>  
<input type="checkbox" class="form-check-input" name="rem" id="rememberInput"  
<?php if (isset($_COOKIE['remember_me'])) {  
  
    echo "checked";  
  
} ?>>
```

- b. Implement the backend login script for user login with session initiation for login email.  
Display a dialog window for the login failed or success of the operation.

15 Marks

## SESSION

```
$sqlLogin = "SELECT * FROM users WHERE email = ? AND password = ?";
$stmt = $conn->prepare($sqlLogin);
$stmt->bind_param("ss", $email, $password);
if ($stmt->execute()) {
    $result = $stmt->get_result();
    $value = false;
    $user_name = "";
    while ($row = $result->fetch_assoc()) {
        $user_name = $row['name'];
        $value = true;
    }
    if ($value) {
        if (isset($_POST['rem'])) {
            $remembering_timespan = time() + 7 * 24 * 60 * 60;
            setcookie('email', $email, $remembering_timespan);
            setcookie('password', $password, $remembering_timespan);
            setcookie('remember_me', "checked",
$remembering_timespan);
            echo "remember me";
        } else {
            setcookie("email", "", time() - 3600);
            setcookie("password", "", time() - 3600);
            setcookie("remember_me", "", time() - 3600);
            echo "remember me not";
        }
        session_start();
        $_SESSION["user_name"] = $user_name;
        $_SESSION["user_email"] = $email;
    }
}
```

## DIALOG

```
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-
KJ3o2DKtIkvYIK3UEZmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
```

```

integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmY1"
crossorigin="anonymous"></script>
    <div class="modal fade" id="myModal" tabindex="-1"
role="dialog" aria-labelledby="myModalTitle" aria-hidden="true">
    <div class="modal-dialog modal-dialog-centered"
role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title text-center"
id="exampleModallongTitle">Login</h5>
                <button type="button" class="close" data-
dismiss="modal" id="proceed1" aria-label="Close">
                    <span aria-hidden="true">&times;</span>
                </button>
            </div>
            <div class="modal-body">
                <p class="text-center">Successfully Logged
in</p>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-primary"
id="proceed2">Proceed</button>
            </div>
        </div>
    </div>
</div>
<script>
    $("#myModal").modal('show');
    $("#myModal").on("hidden.bs.modal", function() {
        // window.location.replace('course.php');
    })
    document.getElementById("proceed1").addEventListener("click", proceedFunction);
    document.getElementById("proceed2").addEventListener("click", proceedFunction);

    function proceedFunction() {
        window.location.replace('course.php');
    }
</script>

```

- c. Once (b) is completed, display the main page if the login operation is a success. The main page should display a basic page interface that contains a header, footer, and navigations menu. The navigation menu items are as follows; courses, tutors, subscription, and profile. Show basic template for the main page. Make sure to include RWD on your page.

10 Marks

## i. HTML

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-
to-fit=no">
  <title>My Tutor</title>
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aowXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
  <link rel="stylesheet" href="../css/style.css">
  <link rel="stylesheet" href="../css/home.css">
</head>

<body>
  <div class="modal fade" id="modalCenter" tabindex="-10" role="dialog" aria-
labelledby="myModalTitle" aria-hidden="true">
    <div class="modal-dialog modal-dialog-centered" role="document">
      <div class="modal-content">
        <div class="modal-header">
          <h5 class="modal-title text-center"
id="exampleModalLongTitle">Logout</h5>
          <button type="button" class="close" data-dismiss="modal" aria-
label="Close">
            <span aria-hidden="true">&times;</span>
          </button>
        </div>
        <div class="modal-body">
          <p class="text-center">Are You sure you want to log out?</p>
        </div>
        <div class="modal-footer">
          <button type="button" class="btn-primary" data-dismiss="modal" aria-
label="Close">Stay</button>
```

```

        <a href="logout.php"><button type="button" class=" btn-
danger">Logout</button></a>
    </div>
</div>
</div>
</div>
<!--Main Navigation-->
<header>
    <!-- Sidebar -->
    <nav id="sidebarMenu" class="collapse d-lg-block sidebar collapse bg-
white">
        <div class="position-sticky" style="height:100%">
            <div class="list-group list-group-flush mx-3 mt-4">
                <br>
                <a href="course.php" class="list-group-item list-group-item-action
py-2 active" aria-current="true">
                    <span>Courses</span>
                </a>
                <a href="tutor.php" class="list-group-item list-group-item-action
py-2"><span>Tutor</span>
                </a>
                <a href="#" class="list-group-item list-group-item-action py-
2"><span>Subscription</span></a>
                <a href="#" class="list-group-item list-group-item-action py-
2"><span>Profile</span></a>

                <!-- <a href="#" class="list-group-item list-group-item-action py-2
align-bottom"><button class=" button-danger">Profile</button></a> -->

            </div>
            <br>
            <div>
                <div class="list-group mx-3 mt-4 align-bottom">
                    <button class="list-group-item list-group-item-action py-2 text-
white text-center" data-toggle="modal" data-target="#modalCenter"
style="background-color:red">Logout</button>

                </div>

            </div>
        </nav>
    <!-- Sidebar -->

    <!-- Navbar -->
    <nav id="main-navbar" class="navbar navbar-expand-lg navbar-light bg-white
fixed-top card">
        <!-- Container wrapper -->
        <div class="container-fluid">

```



```

        <!-- Toggle button -->
        <button class="navbar-toggler btn-primary" type="button" data-mdb-
toggle="collapse" data-mdb-target="#sidebarMenu" aria-controls="sidebarMenu"
aria-expanded="false" aria-label="Toggle navigation">
            <i class="fa fa-bars"></i>
        </button>
        <!-- Brand -->
        <a class="navbar-brand" style="height: 58px" href="#">
            <div style="margin-top: -10px"> <b style="color:blue">My</b><span
class="tutor-text">Tutor</span></div>
        </a>
    </div>
    <!-- Container wrapper -->
</nav>
<!-- Navbar -->
</header>
<!--Main Navigation-->

<!--Main layout-->
<main style="margin-top: 75px">
</main>
<!--Main layout-->

<br><br><br>
    <footer class="bg-dark fixed-bottom text-center text-lg-start">
        <div class="text-center p-3" style="background-color: rgba(0, 0, 0,
0.2);">
            <p class="text-light" style="display: inline-block;">&copy; 2022
Copyright:</p>
            <a class="text-light" href="#contact">Juanrico Alvaro</a>
        </div>
    </footer>
</body>
</html>

```

ii. JS

I USE BOOTSTRAP JS

```

<script type="text/javascript"
src="https://mdbootstrap.com/api/snippets/static/download/MDBootstrap-
Free_4.1.0/js/mdb.min.js"></script>
    <script type="text/javascript"
src="https://cdn.jsdelivr.net/npm/chart.js@2.9.4/dist/Chart.min.js"></script>
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></scrip
t>

```

```

    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-
KJ3o2DKtIkVYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"
crossorigin="anonymous"></script>

<button class="navbar-toggler btn-primary" type="button" data-mdb-
toggle="collapse" data-mdb-target="#sidebarMenu" aria-controls="sidebarMenu"
aria-expanded="false" aria-label="Toggle navigation">

```

### iii. CSS

```

body {
    background-color: #fbfbfb;
}

@media (min-width: 991.98px) {
    main {
        padding-left: 240px;
    }
}

/* Sidebar */
.sidebar {
    position: fixed;
    top: 0;
    bottom: 0;
    left: 0;
    padding: 58px 0 0;
    /* Height of navbar */
    box-shadow: 0 2px 5px 0 rgb(0 0 0 / 5%), 0 2px 10px 0 rgb(0 0 0 / 5%);
    width: 240px;
    z-index: 600;
}

@media (max-width: 991.98px) {
    .sidebar {

```

```
    width: 100%;
  }
}

.sidebar .active {
  border-radius: 5px;
  box-shadow: 0 2px 5px 0 rgb(0 0 0 / 16%), 0 2px 10px 0 rgb(0 0 0 / 12%);
}

.sidebar-sticky {
  position: relative;
  top: 0;
  height: calc(100vh - 48px);
  padding-top: 0.5rem;
  overflow-x: hidden;
  overflow-y: auto;
  /* Scrollable contents if viewport is shorter than content. */
}
```

2. Main page module: The module is responsible for listing subjects that are offered by tutors. The following tasks.

- a. Download the following SQL file and import it into your database. Show both imported tables screenshots using the PhpMyAdmin table designer.

SQL - <https://slumberjer.com/mytutor/mytutordb.sql>

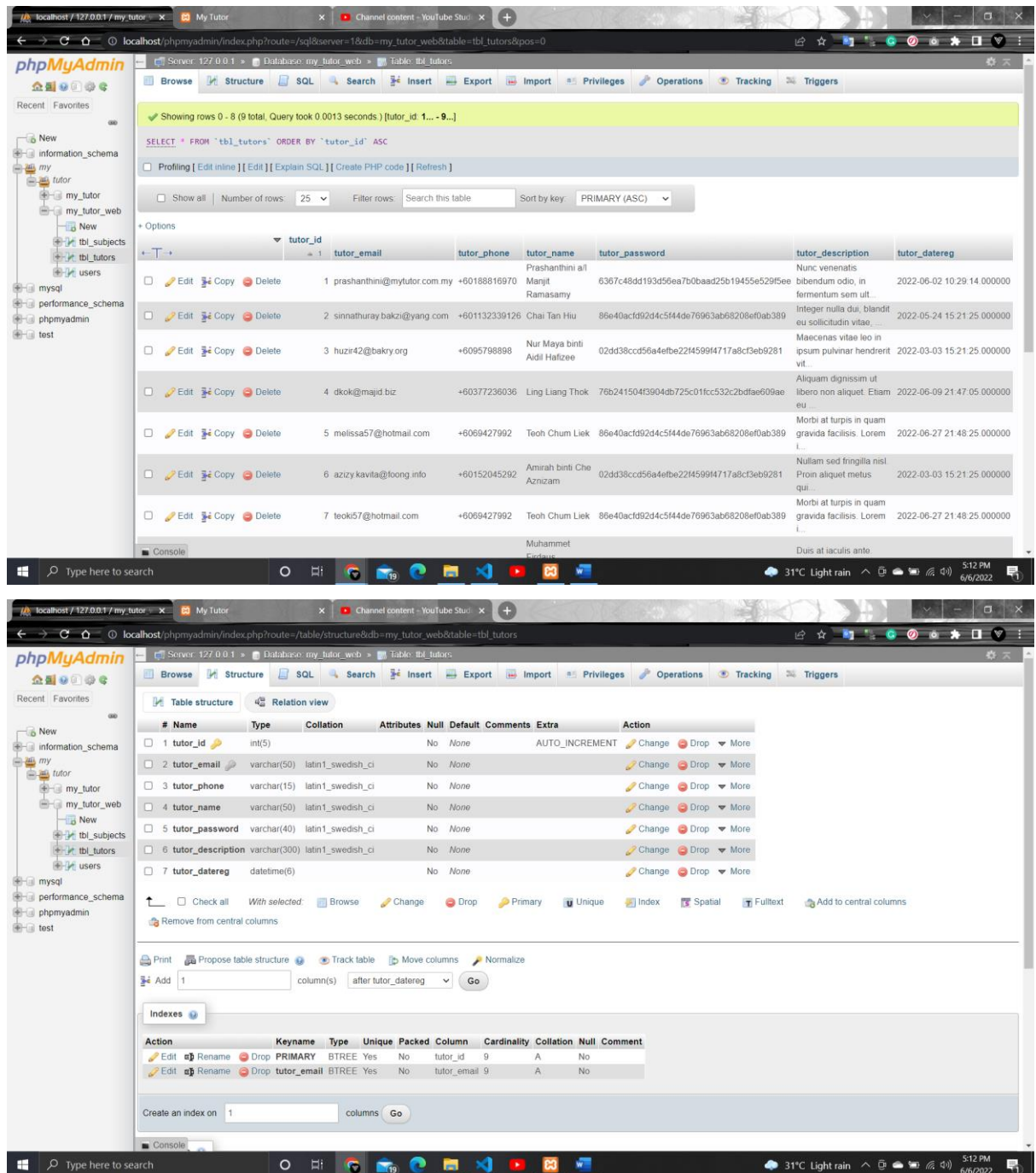
5 Marks

The top screenshot displays the 'tbl\_subjects' table in phpMyAdmin. The table contains 11 rows of data, including columns for subject\_id, subject\_name, subject\_description, subject\_price, tutor\_id, subject\_sessions, and subject\_rating. The bottom screenshot shows the table structure and indexes. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	subject_id	int(4)			No	None		AUTO_INCREMENT	Change Drop More
2	subject_name	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
3	subject_description	varchar(500)	latin1_swedish_ci		No	None			Change Drop More
4	subject_price	float			No	None			Change Drop More
5	tutor_id	varchar(4)	latin1_swedish_ci		No	None			Change Drop More
6	subject_sessions	int(3)			No	None			Change Drop More
7	subject_rating	float			No	None			Change Drop More

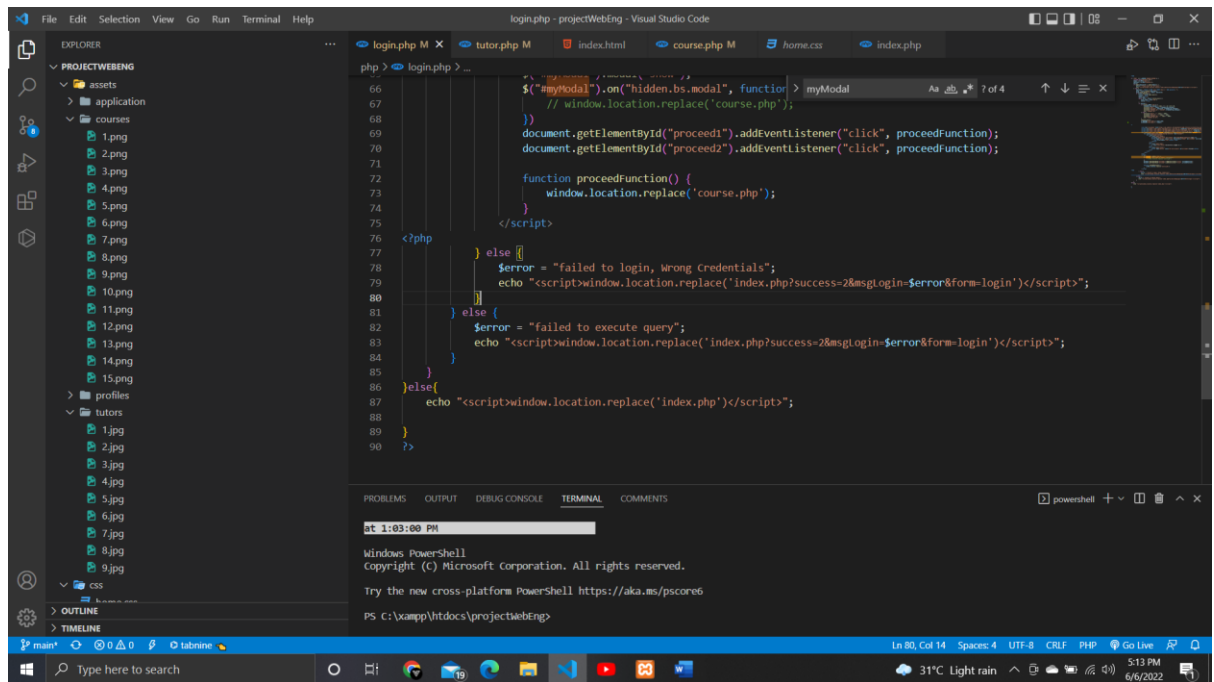
The bottom screenshot also shows the indexes for the table. There is one primary index on the 'subject\_id' column.

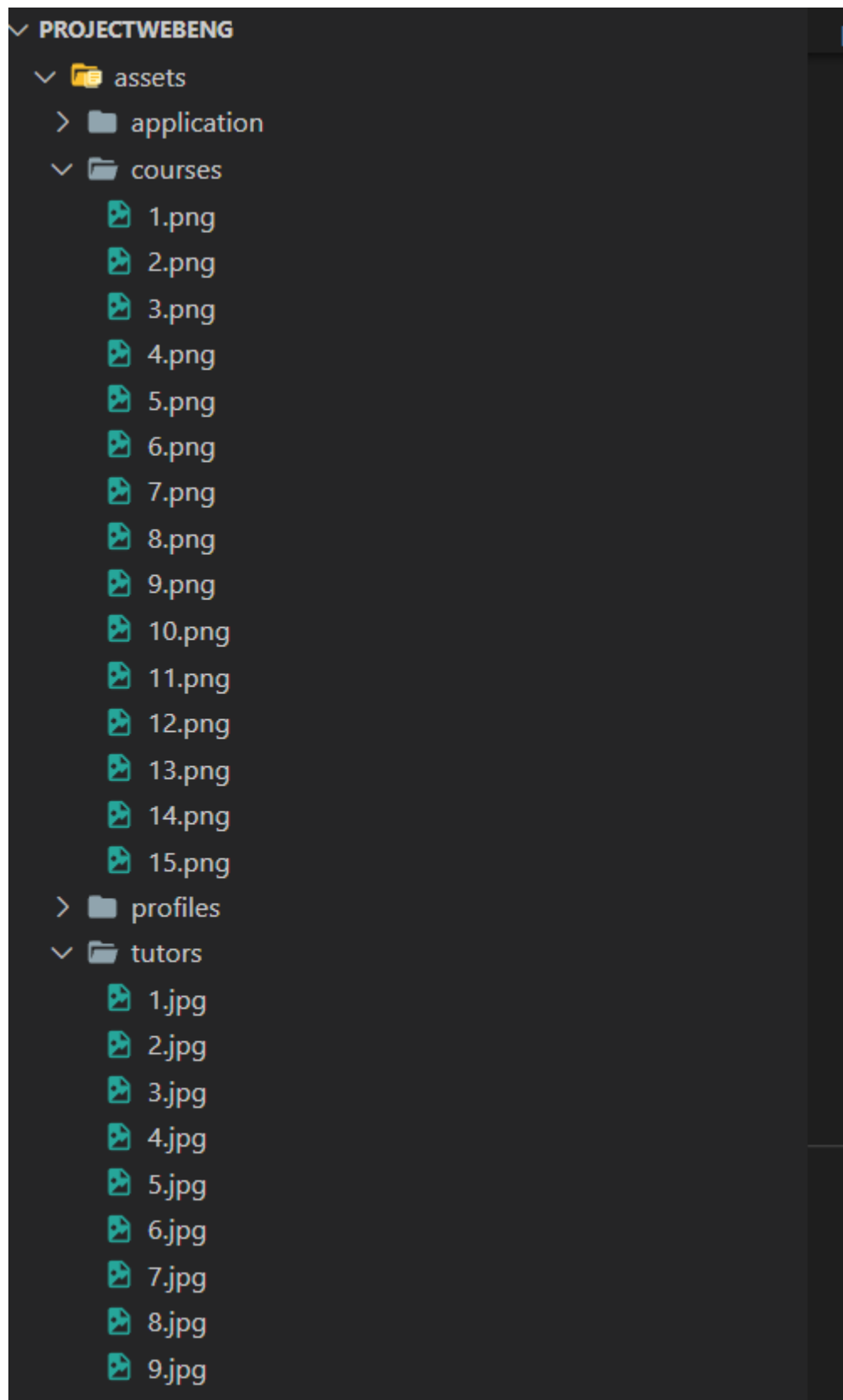
Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	subject_id 15	A		No	



- b. Download the following assets files and extract the folder into your application directory. The folder contains two subfolders that store tutors' profile images and course images. Assets - <https://slumberjer.com/mytutor/assets.zip>. Print screen your project directory from the VSC explorer menu.

5 Marks





- c. The index page is responsible to display a list of courses available from table subjects. List the subject in a suitable grid size with 10 subjects for every page. Make sure your page

implements a responsive design. Use the provided image assets to display each subject image picture in the grid. Show your:

i. HTML

```
<main style="margin-top: 75px">
  <div class="container pt-4">
    <h2>Courses</h2>
    <?php
    while ($row = $result->fetch_assoc()) {
      ?>

      <div class="card mb-3">
        <div class="row no-gutters">
          <div class="col-md-4">
            
          </div>
          <div class="col-md-8">
            <div class="card-body">
              <h5 class="card-title">
                <?php echo $row['subject_name']; ?>
              </h5>
              <p class="card-text">
                <?php echo $row['subject_description']; ?>
              </p>
              <p class="card-text text-muted">Subject Sessions :
                <?php echo $row['subject_sessions']; ?>
              </p>
              <p class="card-text text-warning"><span class="fa fa-star
checked"></span>
                <?php echo $row['subject_rating']; ?>
              </p>
              <br>
              <p class="card-text text-success" style="position: absolute;
bottom: 10px;">RM
                <?php echo $row['subject_price']; ?>
              </p>

              <!-- <footer class="blockquote-footer">Someone famous in <cite
title="Source Title">Source Title</cite></footer>
              <p class="card-text"><small class="text">Last updated 3 mins
ago</small></p> -->
            </div>
          </div>
        </div>
      </div>
    </div>
  <?php
  }
```



```
?>
```

## ii. PHP

```
<?php
include("dbconnect.php");
session_start();
if (!isset($_SESSION['user_name'])) {
    echo "<script>window.location.replace('index.php')</script>";
}

$limit = 10;
$page = (isset($_GET['page']) && is_numeric($_GET['page'])) ? $_GET['page'] :
1;
$paginationStart = ($page - 1) * $limit;
$sqlSubject = "SELECT * FROM tbl_subjects LIMIT $paginationStart, $limit";
$stmt = $conn->prepare($sqlSubject);
$stmt->execute();
$result = $stmt->get_result();

// Get total records
$sql = $conn->query("SELECT count(subject_id) AS id FROM tbl_subjects")-
>fetch_assoc();
$allRecrods = $sql['id'];

// Calculate total pages
$totoalPages = ceil($allRecrods / $limit);
// Prev + Next
$prev = $page - 1;
$next = $page + 1;
?>
```

## iii. CSS section to display.

```
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
```

```
<main style="margin-top: 75px">
<a class="navbar-brand" style="height: 58px" href="#">
```

```
.tutor-text {
    color: blue;
    font-family: 'Arizonia';
    font-size: 50px;
```

```
}
```

#### USING BOOTSTRAP CLASS EXAMPLE

```
<div class="card-body">
<p class="card-text">
```

#### iv. JavaScript

```
$(document).ready(function() {
    $('#records-limit').change(function() {
        $('form').submit();
    })
});
```

20 Marks

- d. Create another page to display a list of tutors from the database. The page menu is accessible from the tutors' navigation menu. List the tutors in a suitable grid size with 10 tutors for every page. Make sure your page implements a responsive design. Use the provided image assets to display each subject image picture in the grid. Show your:

#### i. HTML

```
<main style="margin-top: 75px">
  <div class="container pt-4">
    <h2>Tutors</h2>
    <?php
    while ($row = $result->fetch_assoc()) {
      ?>

      <div class="card mb-3">
        <div class="row no-gutters">
          <div class="col-md-4">
            
          </div>
          <div class="col-md-8">
            <div class="card-body">
              <h5 class="card-title"><?php echo $row['tutor_name']; ?></h5>
              <p class="card-text"><?php echo $row['tutor_description'];
?></p>
```

```

        <p class="card-text text-muted">Email : <?php echo
$row['tutor_email']; ?></p>
        <p class="card-text text-muted">Phone : <?php echo
$row['tutor_phone']; ?></p>
        <br>

        <!-- <footer class="blockquote-footer">Someone famous in <cite
title="Source Title">Source Title</cite></footer>
        <p class="card-text"><small class="text">Last updated 3 mins
ago</small></p> -->
    </div>
</div>
</div>
</div>
<?php
}
?>
<!-- Pagination -->
<nav aria-label="Page navigation example mt-5">
    <ul class="pagination justify-content-center">
        <li class="page-item <?php if ($page <= 1) {
            echo 'disabled';
        } ?>">
            <a class="page-link" href="<?php if ($page <= 1) {
                echo '#';
            } else {
                echo "?page=" . $prev;
            } ?>">Previous</a>
        </li>
        <?php for ($i = 1; $i <= $totalPages; $i++) : ?>
            <li class="page-item <?php if ($page == $i) {
                echo 'active';
            } ?>">
                <a class="page-link" href="tutor.php?page=<?= $i; ?>"> <?= $i;
?> </a>
            </li>
        <?php endforeach; ?>
        <li class="page-item <?php if ($page >= $totalPages) {
            echo 'disabled';
        } ?>">
            <a class="page-link" href="<?php if ($page >= $totalPages) {
                echo '#';
            } else {
                echo "?page=" . $next;
            } ?>">Next</a>
        </li>
    </ul>
</nav>

```

```
</div>
</main>
```

## ii. PHP

```
<?php
include("dbconnect.php");
session_start();
if (!isset($_SESSION['user_name'])) {
    echo "<script>window.location.replace('index.php')</script>";
}
$limit = 10;
$page = (isset($_GET['page']) && is_numeric($_GET['page'])) ? $_GET['page'] :
1;
$paginationStart = ($page - 1) * $limit;
$sqlTutor = "SELECT * FROM tbl_tutors LIMIT $paginationStart, $limit";
$stmt = $conn->prepare($sqlTutor);
$stmt->execute();
$result = $stmt->get_result();

// Get total records
$sql = $conn->query("SELECT count(tutor_id) AS id FROM tbl_tutors")-
>fetch_assoc();
$allRecrods = $sql['id'];

// Calculate total pages
$totoalPages = ceil($allRecrods / $limit);
// Prev + Next
$prev = $page - 1;
$next = $page + 1;
?>
```

## iii. CSS

```
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aowXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
```

```
<main style="margin-top: 75px">
<a class="navbar-brand" style="height: 58px" href="#">
```

```
.tutor-text {
    color: blue;
    font-family: 'Arizonia';
```

```
font-size:50px;
}
```

#### USING BOOTSTRAP CLASS EXAMPLE

```
<div class="card-body">
<p class="card-text">
```

#### iv. JavaScript

```
$(document).ready(function() {
    $('#records-limit').change(function() {
        $('#form').submit();
    })
});
```

20 Marks

3. Create a presentation video that describes all the above tasks. Make sure to include yourself at the bottom left of the video. Upload the video to YouTube. The video must demonstrate the following:

**Put your video link here:** <https://youtu.be/2JwqQo1YKyo>

- a. Login page

5 Marks

- b. Subjects list page (main page)

5 Marks

- c. Tutors list page (tutor page)

5 Marks