Adrian, Christian & Felix

Oppgave 1: plan for filstruktur og klassebibliotek

Lag en pdf-fil som viser en plan for filstrukturen i systemet som skal utvikles i prosjektet.

Oppgave 1:

I klassebiblioteket vårt så tenker vi å følge MVC-modellen. MVC-modellen gjør det enklere å vedlikeholde samt skape struktur for når vi koder. Her er hvordan vi tenker at filstrukturen kommer til å se ut og hva de inneholder:

Mappen 'app/'

- controllers/ – Inneholder controller-klasser.
- models/ – Inneholder modellklasser som samhandler med databasen.
- views/ – Inneholder view-filer som presenterer data til brukerne.

Mappen 'public/'

- css/ – Stilark for brukergrensesnittet.
- js/ – JavaScript-filer.
- images/ – Bilder, inkludert rombilder.

Mappen 'core/'

- Controller.php – Basecontroller som de andre controllerne arver fra, inneholder grunnleggende logikk for routing og visningshåndtering.
- Model.php – Basemodell som modellene arver fra, håndterer databasekoblinger og spørringer.
- View.php – Klasse som håndterer rendering av views.
- Router.php – Håndterer routing, kobler databaser til riktige kontroller- og metodekall.

Mappen 'database/'

- migrations/ – Database-migrasjonsfiler for å holde styr på database.
- seeds/ – Eksempeldata for å fylle databasen ved oppstart.

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Kodefiler til kommentering:
server.php

```php
<?php
session_start();

// initializing variables
$username = "";
$email    = "";
$errors = array();

// connect to the database
$db = mysqli_connect('localhost', 'root', '', 'registration');

// REGISTER USER
if (isset($_POST['reg_user'])) {
  // receive all input values from the form
  $username = mysqli_real_escape_string($db, $_POST['username']);
  $email = mysqli_real_escape_string($db, $_POST['email']);
  $password_1 = mysqli_real_escape_string($db, $_POST['password_1']);
  $password_2 = mysqli_real_escape_string($db, $_POST['password_2']);

  // form validation: ensure that the form is correctly filled ...z  //
by adding (array_push()) corresponding error unto $errors array
  if (empty($username)) { array_push($errors, "Username is required"); }
  if (empty($email)) { array_push($errors, "Email is required"); }
  if (empty($password_1)) { array_push($errors, "Password is required");
}
  if ($password_1 != $password_2) {
      array_push($errors, "The two passwords do not match");
  }

  // first check the database to make sure
  // a user does not already exist with the same username and/or email
  $user_check_query = "SELECT * FROM users WHERE username='$username' OR
email='$email' LIMIT 1";
  $result = mysqli_query($db, $user_check_query);
  $user = mysqli_fetch_assoc($result);

  if ($user) { // if user exists
    if ($user['username'] === $username) {
      array_push($errors, "Username already exists");
    }

    if ($user['email'] === $email) {
      array_push($errors, "email already exists");
    }
```

```php
  }

  // register user if there are no errors in the form
  if (count($errors) == 0) {
        $password = md5($password_1);//encrypt the password before
saving in the database

        $query = "INSERT INTO users (username, email, password)
                          VALUES('$username', '$email', '$password')";
        mysqli_query($db, $query);
        $_SESSION['username'] = $username;
        $_SESSION['success'] = "You are now logged in";
        header('location: index.php');
  }
}


// LOGIN USER
if (isset($_POST['login_user'])) {
    $username = mysqli_real_escape_string($db, $_POST['username']);
    $password = mysqli_real_escape_string($db, $_POST['password']);

    if (empty($username)) {
        array_push($errors, "Username is required");
    }
    if (empty($password)) {
        array_push($errors, "Password is required");
    }

    if (count($errors) == 0) {
        $password = md5($password);
        $query = "SELECT * FROM users WHERE username='$username' AND
password='$password'";
        $results = mysqli_query($db, $query);
        if (mysqli_num_rows($results) == 1) {
          $_SESSION['username'] = $username;
          $_SESSION['success'] = "You are now logged in";
          header('location: index.php');
        }else {
                array_push($errors, "Wrong username/password
combination");
        }
    }
  }
```

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Navbar.php

```php
<nav class="navbar">
    <ul>
        <li><a href=".\..\..\..\php-prosjekt\index.php">Home</a></li>
        <li><a
href="./../../../php-prosjekt/views/pages/rombooking.php"><strong>Book
et rom her</strong></a></li>
        <li><a href="./../../../php-prosjekt/views/pages/login.php">Logg
in</a><li>
        <li><a href="./../../../php-prosjekt/views/pages/registrer.php">
Registrering</a><li>
    </ul>
</nav>

<!-- just the navbar. made so that it will always give the correct path.
uses relative to be safe, ugly but good -->
```

index.php

```php
<!DOCTYPE html>
<?php
// imports navbar
include 'views\partials\navbar.php';

// json import
function loadJson($filename) {
    $jsonString = file_get_contents($filename);
    return json_decode($jsonString, true);
}
// decides language for page
$lang = isset($_GET['lang']) ? $_GET['lang'] : 'nb';
// condition for language
$data = loadJson($lang === 'nb' ? './config/nb.json' :
'./config/en.json');

// imported
$home = $data['homePage']['home'];
$titlePage = $data['homePage']['titlePage'];
$stamp = $data['footer']['stamp'];
$welcomeTitle = $data['welcomeBox']['welcomeTitle'];
$welcomeText = $data['welcomeBox']['welcomeText'];
$viewDeals = $data['welcomeBox']['viewDeals'];
$search = $data['welcomeBox']['search'];
?>
```

```html
<!-- changes language later depening on status, will be added later -->
<html lang="<?php echo htmlspecialchars($lang); ?>">
<head>
    <!-- imports html -->
    <link rel="icon" type="image/png"
href="./public/images/favicon.png">
    <link rel="stylesheet" type="text/css"
href="./public/css/styleGlobal.css">
    <link rel="stylesheet" type="text/css"
href="./public/css/styleHomePage.css">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title><?php echo htmlspecialchars($titlePage); ?></title>
</head>
<body>

<main>
    <!-- welcome box -->
    <div class="welcomeBox">
        <div class="insideWelcomeBox">
            <?php echo "<h1>$welcomeTitle</h1>";
                  echo "<p>$welcomeText</p>"; ?>
            <div class="dealSearch">
                <div class="viewDetails">
                    <?php echo $viewDeals;?>
                </div>
                <div class="search">
                    <?php echo $search;?>
                </div>
            </div>
        </div>
    </div>

    <!-- explore rooms -->
    <div class="exploreRooms">
        <h2>Explore Our Rooms</h2>
        <div class="roomContainer">
            <div class="room">
                <img src="./public/images/deluxeroom.jpg" alt="room1"
width="500" height="300">
                <p>Deluxe Room</p>
                <h3>Room 1</h3>
            </div>
            <div class="room">
                <img src="./public/images/familyroom.jpg" alt="room1"
```

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```html
                width="500" height="300">
                    <p>Family Suite</p>
                    <h3>Room 2</h3>
                </div>
                <div class="room">
                    <img src="./public/images/standardroom.jpg" alt="room1"
width="500" height="300">
                    <p>Standard Room</p>
                    <h3>Room 3</h3>
                </div>
                <div class="room">
                    <img src="./public/images/cheaproom.jpg" alt="room1"
width="500" height="300">
                    <p>Cheap Room</p>
                    <h3>Room 4</h3>
                </div>
            </div>
        </div>
    </main>

    <!-- footer -->
    <footer>
        <p><?php echo $stamp; ?></p>
    </footer>

    </body>
    </html>
```

rombooking.php:

```php
<!DOCTYPE html>
<html lang="no">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Room and Guests Selector with Date</title>
    <link rel="stylesheet" type="text/css"
href="./../../public/css/styleRegistrering.css">
    <link rel="stylesheet" type="text/css"
href="./../../public/css/styleGlobal.css">


</head>
<body>
<?php include './../partials/navbar.php';  ?>
```

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```html
<div class="room-guest-selector">
    <h4>Room 1</h4>

    <!-- Calender -->
    <div class="date-options">
        <div class="date-option">
            <label for="start-date">Start Dato</label>
            <input type="date" id="start-date" name="start-date">
        </div>
        <div class="date-option">
            <label for="end-date">Slutt Dato</label>
            <input type="date" id="end-date" name="end-date">
        </div>
    </div>

            <!-- Adult selector -->
    <div class="guest-options">
        <div class="guest-option">
            <label>Voksne (Alder 13+)</label>
            <div class="guest-counter">
                <button type="button" class="counter-btn"
onclick="changeValue('adults', -1)">-</button>
                <span id="adults" class="counter-value">1</span>
                <button type="button" class="counter-btn"
onclick="changeValue('adults', 1)">+</button>
            </div>
        </div>

        <!-- Children selection -->
        <div class="guest-option">
            <label>Barn (Alder 0-12)</label>
            <div class="guest-counter">
                <button type="button" class="counter-btn"
onclick="changeValue('children', -1)">-</button>
                <span id="children" class="counter-value">0</span>
                <button type="button" class="counter-btn"
onclick="changeValue('children', 1)">+</button>
            </div>
        </div>
    </div>

    <button class="search-btn" onclick="submitForm()">Search</button>
</div>
<footer><?php echo "footer" ?></footer>
</body>
</html>
```

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registrer.php

```php
<!DOCTYPE html>
<?php
//database connection currently commented out for testing purposes
// include('./../../config\server.php');
include './../partials/navbar.php';

?>

<!--registration site-->
<html>
    <head>
        <title> Registrering PHP og (databasenavn)</title>
            <link rel="stylesheet" type="text/css"
href="./../../public/css/styleGlobal.css">
            <link rel="stylesheet" type="text/css"
href="./../../public/css/styleHomePage.css">

</head>
<body>

<div class="header">
    <h2>Registrer</h2>
</div>

<!--Register new user -->

<form method="post" action="registrer.php">
    <?php include('errors.php'); ?>
    <div class="input-group">
        <label>Brukernavn</label>
        <input type="text" name="brukernavn" value="<?php echo
$username; ?>">
</div>
<div>E-post</label>
<input type="E-post" name="E-post" value="<?php echo $Epost; ?>">
</div>

</form>
<footer><?php echo "Footer" ?></footer>
</body>
</html>
```