

**American International University- Bangladesh**

**CSC 3215: Web Technologies**

**CO2 and CO4 Evaluation**

**Finished Project Report**

**Spring/Summer/Fall 2020-2021**

**Project Title: Mini Social Media**

**Section: F**

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| --- | --- |
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**Project Description:**

*This is primarily a social media app without media usage. Users can post status, like them and follow other users to see their posts on news feed. They can edit or delete existing posts.*

**Project Folder Structure:**

*index.php*

*-includes*

*db.php*

*header.php*

*footer.php*

*-pages*

*delete.php*

*follow.php*

*home.php*

*like.php*

*logout.php*

*profile.php*

*register.php*

*search.php*

**Core Modules of the Project:**

*THREE of CORE modules’ source code:*

***home.php***

*<?php*

*include\_once '../includes/db.php';*

*if ($\_SERVER["REQUEST\_METHOD"] == "POST") {*

*session\_start();*

*// Get content and insert into db*

*$data = json\_decode(file\_get\_contents('php://input'), true);*

*$content = $data['content'];*

*$uid = $\_SESSION['userId'];*

*$query = "INSERT INTO `post`(`user\_id`, `content`) VALUES ('$uid', '$content')";*

*$result = mysqli\_query($conn, $query);*

*// Return with response to append in dom*

*$pid =  mysqli\_insert\_id($conn);*

*$query = "SELECT \* FROM post WHERE id = $pid LIMIT 1";*

*$result = mysqli\_query($conn, $query);*

*$post = mysqli\_fetch\_array($result);*

*echo json\_encode(array("success" => true, "content" => $content, "id" => $post['id'], "created\_at" => $post['created\_at']));*

*exit;*

*}*

*include\_once '../includes/header.php';*

*if (!isset($\_SESSION['userId'])) {*

*header('location: ../index.php');*

*exit();*

*}*

*$id = $\_SESSION['userId'];*

*$query = "SELECT full\_name, bio FROM user WHERE id = '$id' LIMIT 1";*

*$result = mysqli\_query($conn, $query);*

*$user = mysqli\_fetch\_array($result);*

*?>*

*<!-- User info and post form -->*

*<table style="margin: auto; margin-bottom: 30px;">*

*<tr>*

*<td style="vertical-align: top;">*

*<h2 style="margin: 0;"><?php echo $user['full\_name'] ?></h2>*

*<h4><?php echo $user['bio'] ?></h4>*

*</td>*

*<td style="padding-left: 15px;">*

*<form id="homeform" method="post">*

*<textarea required placeholder="Write something and post..." style="resize: none; padding: 7px;" name="content" id="content" cols="52" rows="5"></textarea>*

*<button name="submit" style="font-size: 18px;vertical-align: top;margin-left: 15px;" type="submit">POST</button>*

*</form>*

*</td>*

*</tr>*

*</table>*

*<?php*

*// Fetch posts*

*$query = "SELECT post.id, content, full\_name, user.id as user, created\_at, COUNT(likes.post\_id) as likes*

*FROM post*

*JOIN user*

*ON user.id = post.user\_id*

*LEFT JOIN likes ON likes.post\_id = post.id*

*WHERE post.user\_id*

*IN (SELECT followed\_user FROM follow WHERE follower\_user = $id)*

*OR post.user\_id = $id*

*GROUP BY post.id*

*ORDER BY post.id DESC; ";*

*$result = mysqli\_query($conn, $query);*

*?>*

*<!-- Render posts -->*

*<div class="posts">*

*<table style="border-bottom: 1px solid darkolivegreen; margin: auto; margin-bottom: 20px; ">*

*<?php if (mysqli\_num\_rows($result) === 0) : ?>*

*<h3 id="no-posts" style="text-align: center;">Follow some users to see their posts</h3>*

*<?php else : ?>*

*<?php while ($row = mysqli\_fetch\_array($result)) : ?>*

*<thead>*

*<th style="text-align: left;"><a href="./profile.php?id=<?php echo $row['user'] ?>"><u><?php echo $row['full\_name'] ?></u></a></th>*

*<th><?php echo $row['created\_at'] ?></th>*

*</thead>*

*<tr>*

*<td style="width: 420px;">*

*<p><?php echo $row['content'] ?></p>*

*<?php*

*// Check if post is liked by user*

*$qry = "SELECT \* FROM likes WHERE post\_id = '" . $row['id'] . "' AND user\_id = '$id' LIMIT 1";*

*$res = mysqli\_query($conn, $qry);*

*?>*

*<?php*

*if (mysqli\_num\_rows($res) === 0)*

*echo "<a style='font-size: 23px;' href='./like.php?post=" . $row['id'] . "&action=like'>LIKE " . $row['likes'] . "</a>";*

*else*

*echo "<a style='font-size: 23px; color: red' href='./like.php?post=" . $row['id'] . "&action=dislike'>LIKE " . $row['likes'] . "</a>" ?>*

*</td>*

*</tr>*

*<?php endwhile; ?>*

*<?php endif ?>*

*</table>*

*</div>*

*<script>*

*if (!sessionStorage.getItem("userId"))*

*location.href = "../index.php"*

*// Post new status using ajax*

*document.getElementById("homeform").addEventListener("submit", e => {*

*e.preventDefault()*

*const content = document.querySelector("#homeform textarea")*

*const data = {*

*content: content.value*

*}*

*content.value = ""*

*const req = new XMLHttpRequest();*

*req.open("POST", "./home.php");*

*req.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");*

*req.responseType = "json";*

*req.onreadystatechange = () =>*

*req.readyState === 4 && handleResponse(req.response);*

*req.send(JSON.stringify(data));*

*})*

*// Apppend the new post in homepage*

*function handleResponse(res) {*

*if (res.success) {*

*if (document.getElementById("no-posts") !== null)*

*document.getElementById("no-posts").remove()*

*const post = `*

*<thead>*

*<th style="text-align: left;"><a href="./profile.php?id=${sessionStorage.getItem("userId")}"><u>${sessionStorage.getItem("username")}</u></a></th>*

*<th>${res.created\_at}</th>*

*</thead>*

*<tr>*

*<td style="width: 420px;">*

*<p>${res.content}</p>*

*<a style='font-size: 23px;' href='./like.php?post=${res.id}&action=like'>LIKE 0</a>*

*</td>*

*</tr>*

*`*

*const posts = document.querySelector(".posts table")*

*posts.innerHTML = post + posts.innerHTML // Append on top of other posts*

*}*

*}*

*</script>*

*<?php*

*include\_once '../includes/footer.php';*

***profile.php***

*<?php*

*include\_once '../includes/header.php';*

*include\_once '../includes/db.php';*

*// Get profile user*

*$id = (isset($\_GET['id']) ? $\_GET['id'] : $\_SESSION['userId']);*

*$query = "SELECT full\_name, email, bio FROM user WHERE id = '$id' LIMIT 1";*

*$result = mysqli\_query($conn, $query);*

*if (mysqli\_num\_rows($result) === 0) {*

*header('location: ./home.php');*

*exit;*

*}*

*$row = mysqli\_fetch\_array($result);*

*?>*

*<!-- User info -->*

*<table style="margin: auto; margin-bottom: 30px;">*

*<tr>*

*<td>*

*<h2 style="margin: 0;"><?php echo $row['full\_name'] ?></h2>*

*</td>*

*<td style="padding-left: 15px;">*

*<h4 style="margin: 0;"><i><?php echo $row['email'] ?></i></h4>*

*</td>*

*<td style="padding-left: 15px;">*

*<?php*

*if (isset($\_SESSION['userId'])) {*

*// Check if user is followed*

*$user = $\_SESSION['userId'];*

*if ($id !== $user) {*

*$qry = "SELECT \* FROM follow WHERE follower\_user = '$user' AND followed\_user = '$id' LIMIT 1";*

*$res = mysqli\_query($conn, $qry);*

*$text = ((mysqli\_num\_rows($res) === 0) ? "FOLLOW" : "UNFOLLOW");*

*echo '<button id="followBtn" data-id="' . $id . '" style="font-size: 18px; color: blue">' . $text . '</button>';*

*}*

*}*

*?>*

*</td>*

*</tr>*

*<tr>*

*<td colspan="3" style="text-align: center;"><?php echo $row['bio'] ?></td>*

*</tr>*

*</table>*

*<script>*

*const followBtn = document.getElementById("followBtn")*

*followBtn?.addEventListener("click", () => {*

*const data = {*

*uid: followBtn.getAttribute("data-id"),*

*action: followBtn.textContent*

*}*

*const req = new XMLHttpRequest();*

*req.open("POST", "./follow.php");*

*req.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");*

*req.responseType = "json";*

*req.onreadystatechange = () =>*

*req.readyState === 4 && (followBtn.textContent = req.response.action)*

*req.send(JSON.stringify(data));*

*})*

*</script>*

*<?php*

*// Fetch posts*

*$query = "SELECT post.id, content, full\_name, created\_at, COUNT(likes.post\_id) as likes*

*FROM post*

*JOIN user*

*ON user.id = post.user\_id*

*LEFT JOIN likes ON likes.post\_id = post.id*

*WHERE post.user\_id = $id*

*GROUP BY post.id*

*ORDER BY post.id DESC; ";*

*$result = mysqli\_query($conn, $query);*

*?>*

*<!-- Render posts -->*

*<div>*

*<?php if (mysqli\_num\_rows($result) === 0) : ?>*

*<h3 style="text-align: center;">User hasn't posted anything</h3>*

*<?php else : ?>*

*<?php while ($row = mysqli\_fetch\_array($result)) : ?>*

*<table style="border-bottom: 1px solid darkolivegreen; margin: auto; margin-bottom: 20px; ">*

*<thead>*

*<th style="text-align: left;"><?php echo $row['full\_name'] ?></th>*

*<th><?php echo $row['created\_at'] ?></th>*

*</thead>*

*<tr>*

*<td style="width: 420px;">*

*<p><?php echo $row['content'] ?></p>*

*</td>*

*</tr>*

*<tr>*

*<?php*

*if (isset($user)) {*

*// Check if post is liked by user*

*$qry = "SELECT \* FROM likes WHERE post\_id = '" . $row['id'] . "' AND user\_id = '$user' LIMIT 1";*

*$res = mysqli\_query($conn, $qry) ?>*

*<?php if (mysqli\_num\_rows($res) === 0) : ?>*

*<td><a style='font-size: 23px;' href='./like.php?post=<?php echo $row["id"] ?>&action=like'>LIKE <?php echo $row["likes"] ?></a></td>*

*<?php else : ?>*

*<td><a style='font-size: 23px; color: red' href='./like.php?post=<?php echo $row['id'] ?>&action=dislike'>LIKE <?php echo $row['likes'] ?></a></td>*

*<?php endif ?>*

*<?php if ($user === $id) : ?>*

*<td><a href="./delete.php?id=<?php echo $row['id'] ?>"><button style="font-size: 18px; color: red;">Delete</button></a></td>*

*<?php endif ?>*

*<?php } else*

*echo "<td><a style='font-size: 23px;' href='./like.php?post=" . $row['id'] . "&action=like'>LIKE " . $row['likes'] . "</a></td>" ?>*

*</tr>*

*</table>*

*<?php endwhile; ?>*

*<?php endif ?>*

*</div>*

*<?php*

*include\_once '../includes/footer.php';*

***search.php***

*<?php*

*include\_once '../includes/db.php';*

*if ($\_SERVER["REQUEST\_METHOD"] == "POST") {*

*session\_start();*

*$data = json\_decode(file\_get\_contents('php://input'), true);*

*$keyword = $data['query'];*

*$query = "SELECT id, full\_name, email FROM user WHERE email LIKE '%$keyword%' OR full\_name LIKE '%$keyword%' ";*

*$result = mysqli\_query($conn, $query);*

*// Return false if no result found*

*if (mysqli\_num\_rows($result) === 0) {*

*echo json\_encode(array("success" => false, "m" => "No user found with matching query"));*

*exit;*

*}*

*$response = array();*

*while ($row = mysqli\_fetch\_array($result))*

*$response[] = $row;*

*echo json\_encode(array("success" => true, "rows" => $response));*

*exit;*

*}*

*include\_once '../includes/header.php';*

*?>*

*<form id="searchform" style="text-align: center; margin-bottom: 30px">*

*<label style="font-size: 20px; margin-right: 25px;" for="keyword">Search for users:</label>*

*<input type="text" name="keyword" id="keyword" placeholder="Enter a name or email">*

*<input type="submit" hidden>*

*</form>*

*<h3 style="text-align: center;"></h3>*

*<table style="margin: auto; display: none">*

*<tr>*

*<td style="font-size: 19px;">Name</td>*

*<td style="padding-left: 10px; font-size: 19px;"><i>Email</i></td>*

*</tr>*

*</table>*

*<script>*

*// Handle search request*

*document.getElementById("searchform").addEventListener("submit", e => {*

*e.preventDefault()*

*const query = document.querySelector("#searchform input")*

*const data = {*

*query: query.value*

*}*

*query.value = ""*

*const req = new XMLHttpRequest();*

*req.open("POST", "./search.php");*

*req.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");*

*req.responseType = "json";*

*req.onreadystatechange = () =>*

*req.readyState === 4 && handleResponse(req.response);*

*req.send(JSON.stringify(data));*

*})*

*// Append results in document*

*function handleResponse(res) {*

*if (!res.success)*

*document.querySelector("h3").textContent = res.m*

*else {*

*const results = document.querySelector("table")*

*results.style.display = "table"*

*res.rows.forEach(row => {*

*const tr = document.createElement("tr")*

*tr.innerHTML = `*

*<tr>*

*<td style="font-size: 19px;"><a href="./profile.php?id=${row.id}"><b>${row.full\_name}</b></a></td>*

*<td style="padding-left: 10px; font-size: 19px;"><i>${row.email}</i></td>*

*</tr>*

*`*

*results.appendChild(tr);*

*});*

*}*

*}*

*</script>*

*<?php*

*include\_once '../includes/footer.php';*