

Assignment 5

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Program.

Semester: 5th

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Section/Group: Web

1. **Aim:- Chat and Posting**

2. **CODE:**

posts.php

```
<?php
```

```
include
```

```
'header.php';
```

```
include
```

```
'config.php';
```

```
?>
```

```
<style>
```

```
.container { max-width: 700px; margin: auto; }
```

```
.post-box { background: #fff; padding: 20px; border-radius: 10px; box-shadow: 0 2px 8px rgba(0,0,0,0.1); margin-bottom: 20px; }
```

```
.post-box textarea { width: 100%; padding: 10px; border: 1px solid #ccc; border-radius: 6px; min-height: 80px; margin-bottom: 10px; }
```

```
.post-box button { float: right; padding: 8px 20px; background: #2660c5; color: #fff; border: none; border-radius: 6px; cursor: pointer; }
```

```
.post-feed { margin-top: 20px; }
```

```
.post-item { background: #fff; padding: 20px; border-radius: 10px; box-shadow: 0 2px 8px rgba(0,0,0,0.1); margin-bottom: 15px; }
```

```
.post-header { display: flex; align-items: center; margin-bottom: 15px; }
```

```
.post-header img { width: 45px; height: 45px; border-radius: 50%; object-fit: cover; margin-right: 15px; }
```

```
.post-header-info span { font-weight: bold; }
```

```
.post-header-info small { color: #888; }
```

```
.pagination { text-align: center; margin-top: 20px; }
```

```
.pagination a, .pagination span { margin: 0 5px; padding: 8px 12px; text-decoration: none; color: #2660c5; background: #f4f4f4; border-radius: 5px; }
```

```
.pagination span { background: #2660c5; color: #fff; }  
</style>
```

```
<div class="container">
```

```
<div class="post-box">  
<h3>Create a Post</h3>
```

```
<textarea id="postContent" placeholder="What's on your mind?"></textarea>
```

```
<button id="createPostBtn">Post</button>
```

```
</div>
```

```
<div class="post-feed" id="postFeed">
```

```
<!-- Posts will be loaded here -->
```

```
</div>
```

```
<div class="pagination" id="pagination">
```

```
<!-- Pagination links will be loaded here -->
```

```
</div>
```

```
</div>
```

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
```

```
<script>
```

```
function loadPosts(page = 1) {  
$.post('posts_ajax.php', { action: 'get_posts', page: page }, function(data) {
```

```
const res = JSON.parse(data);
```

```
$('#postFeed').html(res.posts);
```

```
$('#pagination').html(res.pagination);
```

```
});
```

```
}
```

```
$('#createPostBtn').on('click', function() {
```

```
const content = $('#postContent').val();

if (content.trim() === "") return;

$.post('posts_ajax.php', { action: 'create_post', content: content }, function() {

    $('#postContent').val("");

    loadPosts(); // Refresh feed

});

});

$(document).on('click', '.pagination a', function(e) {

    e.preventDefault();

    const page = $(this).data('page');

    loadPosts(page);

});

    loadPosts();
</script>
```

Posts_ajax.php

```
<?php

include

'config.php';

session_start(

);

$userid = $_SESSION['userid'];
$action = isset($_POST['action']) ?

$_POST['action'] : ""; if ($action == 'create_post') {

$content = mysqli_real_escape_string($con, $_POST['content']);
    mysqli_query($con, "INSERT INTO userpost (content, userid) VALUES ('$content',
    '$userid')");

exit;

}
```

```
if ($action == 'get_posts') {

$limit = 5; // Posts per page
$page = isset($_POST['page']) ? intval($_POST['page']) : 1;

$start = ($page - 1) * $limit;
$total_res = mysqli_query($con, "SELECT COUNT(*) as total FROM userpost");

$total_row = mysqli_fetch_assoc($total_res);
$total_posts = $total_row['total'];

$total_pages = ceil($total_posts / $limit);

$posts_html = "";
$res = mysqli_query($con, "SELECT p.*, u.username, u.userpic FROM userpost p
JOIN txt92849x99x_userinfo u ON p.userid=u.id ORDER BY p.id DESC LIMIT
$start, $limit");

while ($row = mysqli_fetch_assoc($res)) {

$posts_html .= '<div class="post-item">
<div class="post-header">



<div class="post-header-info">

<span>' . htmlspecialchars($row['username']) . '</span><br>
<small>' . date('F j, Y, g:i a', strtotime($row['curtime'])) . '</small>

</div>

</div>

<p>' . nl2br(htmlspecialchars($row['content'])) . '</p>

</div>';

}

$pagination_html = "";
for ($i = 1; $i <= $total_pages; $i++) {

if ($i == $page) {

$pagination_html .= '<span>' . $i . '</span>';
```

```
} else {  
  
    $pagination_html .= '<a href="#" data-page="' . $i . '">' . $i . '</a>';  
  
}  
  
}  
echo json_encode(['posts' => $posts_html, 'pagination' => $pagination_html]);  
  
exit;  
  
}
```

Chat.php

```
<?php  
  
include  
  
'header.php';  
  
include  
  
'config.php';  
  
?>  
  
<style>  
  
.chat-container { display: flex; max-width: 900px; margin: auto; background: #fff;  
border-radius: 10px; box-shadow: 0 2px 8px rgba(0,0,0,0.1); height: calc(100vh -  
120px); }  
  
.friends-list { width: 30%; border-right: 1px solid #eee; padding: 20px; overflow-y:  
auto; }  
.friends-list h3 { color: #15387a; margin-top: 0; }  
  
.friend-item { display: flex; align-items: center; padding: 10px; cursor: pointer; border-  
radius: 8px; }  
  
.friend-item:hover, .friend-item.active { background: #f4f4f4; }  
  
.friend-item img { width: 40px; height: 40px; border-radius: 50%; object-fit: cover;  
margin-right: 10px; }  
  
.chat-window { width: 70%; display: flex; flex-direction: column; }  
  
.chat-header { padding: 20px; border-bottom: 1px solid #eee; }  
  
.messages { flex-grow: 1; padding: 20px; overflow-y: auto; display: flex; flex-  
direction: column-reverse; }  
  
.message-input { padding: 20px; border-top: 1px solid #eee; }
```

```
.message-input input { width: calc(100% - 80px); padding: 10px; border: 1px solid #ccc; border-radius: 6px; }
```

```
.message-input button { width: 70px; padding: 10px; background: #2660c5; color: #fff; border: none; border-radius: 6px; cursor: pointer; }
```

```
.message { margin-bottom: 15px; max-width: 70%; }  
.message.sent { align-self: flex-end; background: #2660c5; color: #fff; padding: 10px; border-radius: 10px 10px 0 10px; }
```

```
.message.received { align-self: flex-start; background: #e9e9eb; color: #000; padding: 10px; border-radius: 10px 10px 10px 0; }
```

```
</style>  
<div class="chat-container">
```

```
<div class="friends-list" id="friendsList">
```

```
<h3>Friends</h3>  
<!-- Friends will be loaded here by AJAX -->
```

```
</div>  
<div class="chat-window">
```

```
<div class="chat-header" id="chatHeader">Select a friend to start chatting</div>  
<div class="messages" id="messages"></div>
```

```
<div class="message-input" id="messageInput" style="display:none;">
```

```
<input type="text" id="messageText" placeholder="Type a message...">  
<button id="sendBtn">Send</button>
```

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

```
</div>  
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
```

```
<script>
```

```
let activeChatUser = null;
```

```
function loadFriends() {
```

```
        $('#friendsList').html('<h3>Friends</h3>' + data);

    });

}

function loadMessages() {

    if (!activeChatUser) return;
    $.post('chat_ajax.php', { action: 'get_messages', touser: activeChatUser }, function(data) {

        $('#messages').html(data);

    });

}

$(document).on('click', '.friend-item', function() {

    activeChatUser = $(this).data('userid');

    $('.friend-item').removeClass('active');
    $(this).addClass('active');

    $('#chatHeader').text('Chat with ' + $(this).find('span').text());

    $('#messageInput').show();

    loadMessages();

});

$('#sendBtn').on('click', function() {

    const msg = $('#messageText').val();

    if (msg.trim() === '' || !activeChatUser) return;

    $.post('chat_ajax.php', { action: 'send_message', touser: activeChatUser, msg: msg },
        function() {

            $('#messageText').val('');

            loadMessages();

        });

});
```

```
setInterval(loadMessages, 3000); // Poll for new messages every 3 seconds
```

```
loadFriends();
```

```
</script
```

Chat_ajax.php

```
<?php  
include
```

```
'config.php';
```

```
session_start(  
  
);
```

```
$userid = $_SESSION['userid'];
```

```
$action = isset($_POST['action']) ? $_POST['action'] : '';
```

```
if ($action == 'get_friends') {
```

```
    $friends = mysqli_query($con, "SELECT u.id, u.username, u.userpic FROM  
    txt92849x99x_userinfo u JOIN friendreq f ON ((f.fromreq=u.id AND f.toreq='$userid')  
    OR (f.toreq=u.id AND f.fromreq='$userid')) WHERE f.status=1 AND u.id!='$userid'");
```

```
if(mysqli_num_rows($friends)==0) {
```

```
    echo '<div>No friends to chat with.</div>';
```

```
    } else {
```

```
        while($f = mysqli_fetch_assoc($friends)) {
```

```
            echo '<div class="friend-item" data-userid="' . $f['id'] . '">  
                
```

```
                <span>' . htmlspecialchars($f['username']) . '</span>
```

```
            </div>';
```

```
        }
```

```
    }  
    exit;
```

```
}
```

```
if ($action == 'get_messages') {
```

```
$touser = intval($_POST['touser']);
```



```

$res = mysqli_query($con, "SELECT * FROM messege WHERE
(fromuser='$userid' AND touser='$touser') OR (fromuser='$touser' AND
touser='$userid') ORDER BY timestamp DESC");

while ($row = mysqli_fetch_assoc($res)) {

    $class = $row['fromuser'] == $userid ? 'sent' : 'received';
    echo '<div class="message ' . $class . '">'. htmlspecialchars($row['msg']) . '</div>';

}
exit;

}

if ($action == 'send_message') {

    $touser = intval($_POST['touser']);
    $msg = mysqli_real_escape_string($con, $_POST['msg']);

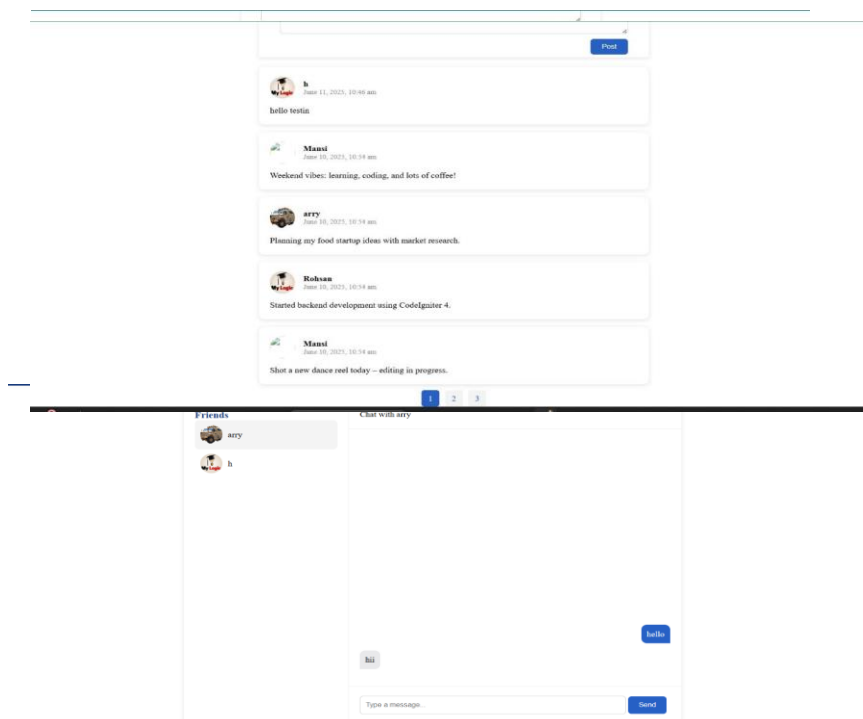
    mysqli_query($con, "INSERT INTO messege (fromuser, touser, msg) VALUES
('$userid', '$touser', '$msg')");

    exit;

}

```

3. OUTPUT



4. LEARNING OUTCOMES:-

- Real-Time Communication Concepts
- Frontend Message Interface Design
- Asynchronous Data Handling with AJAX
- Message Storage and Retrieval using PHP & MySQL
- Database Structure for Conversations
- User Authentication and Session Handling
- Dynamic Message Rendering with JavaScript
- Polling vs WebSocket (Basic Comparison)
- Input Sanitization and Security
- Improving UX with Instant Feedback and Auto-Scroll