

Assignment 4

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Section/Group: Web

Program.

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1. **Aim:- Friend Request System**

2. **CODE:**

```
<?php
include

'header.php';

include

'config.php';

$userid = $_SESSION['userid'];

?>

<div style='max-width:700px;margin:30px
auto;background:#fff;padding:30px;border-
radius:10px;box-shadow:0 2px 8px
rgba(0,0,0,0.1);'>

<h2 style='color:#15387a;'>Find Friends</h2>
  <input type='text' id='searchUser' placeholder='Search by username or
email...' style='width:100%;padding:8px;border:1px solid #ccc;border-
radius:5px;margin- bottom:10px;'>

<div id='searchResults'></div>

<h3 style='color:#2660c5;margin-top:30px;'>Friend Requests</h3>
<div id='friendRequests'></div>

<h3 style='color:#2660c5;margin-top:30px;'>My Friends</h3>
<div id='myFriends'></div>

</div>

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

function loadRequests() {
```

```
$.post('friends_ajax.php', { action: 'requests' }, function(data) {

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

});

}

function loadFriends() {

$.post('friends_ajax.php', { action: 'friends' }, function(data) {
    $('#myFriends').html(data);

});

}

$('#searchUser').on('input', function() {

    var query = $(this).val();

    if(query.length < 2) { $('#searchResults').html(""); return; }

$.post('friends_ajax.php', { action: 'search', query: query }, function(data) {
    $('#searchResults').html(data);

});

});

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

    var toid = $(this).data('toid');

    var btn = $(this);

    btn.prop('disabled', true).text('Request Sent');
$.post('friends_ajax.php', { action: 'add', toid: toid }, function(res) {});

});

$(document).on('click', '.accept-btn, .reject-btn', function() {

    var reqid = $(this).data('reqid');

    var action = $(this).hasClass('accept-btn') ? 'accept' : 'reject';
$.post('friends_ajax.php', { action: action, reqid: reqid }, function(res) {

        loadRequests();

    });

});
```

```
        loadFriends();  
    });  
});  
    loadRequests();  
    loadFriends();  
</script>
```

Friends_ajax.php

```
<?php  
include  
  
'config.php';  
session_start();  
  
if (!isset($_SESSION['userid'])) {  
    die("Please login first.");  
}  
  
$userid = $_SESSION['userid'];  
$action = isset($_POST['action']) ?  
$_POST['action'] : ""; if ($action == 'search') {  
$query = $_POST['query'];  
$query = mysqli_real_escape_string($con, $query);  
  
$result = mysqli_query($con, "SELECT * FROM txt92849x99x_userinfo WHERE id  
!= '$userid' AND (username LIKE '%$query%' OR email LIKE '%$query%')");  
  
while ($row = mysqli_fetch_assoc($result)) {
```

```
$check = mysqli_query($con, "SELECT * FROM friendreq WHERE  
(fromreq='$userid' AND toreq='{$row['id']}') OR (fromreq='{$row['id']}' AND  
toreq='$userid') AND status IN (0, 1)");
```

```
if (mysqli_num_rows($check) > 0) {  
    echo $row['username'] . " - Request Sent or Already Friends<br>";  
  
    } else {  
        echo $row['username'] . " <button class='add-btn' data-id='{$row['id']}'>Add  
Friend</button><br>";  
  
    }  
  
    }  
exit;
```

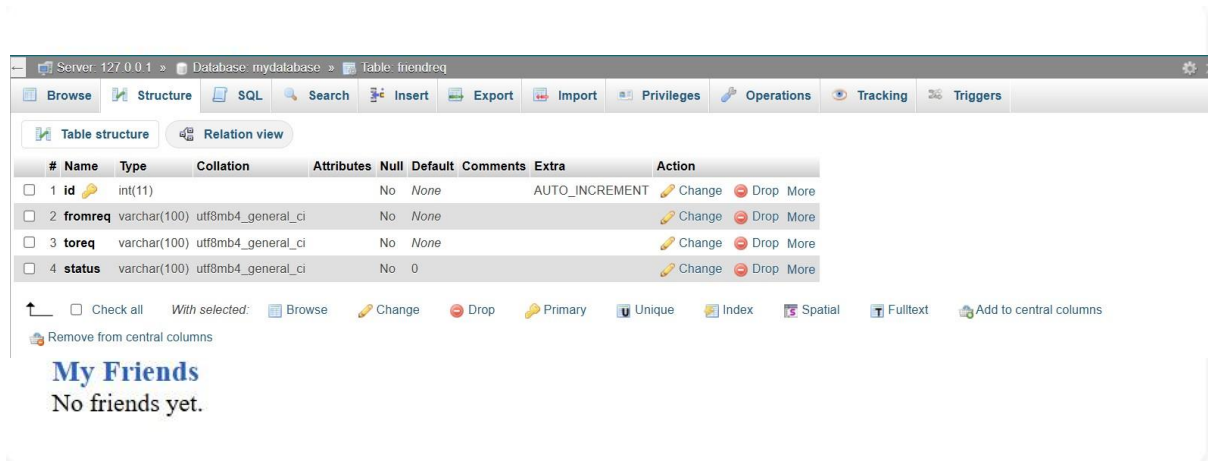
```
}  
if ($action == 'add') {  
$toid = $_POST['toid'];  
  
    mysqli_query($con, "INSERT INTO friendreq (fromreq, toreq, status) VALUES  
('$userid', '$toid', 0)");  
  
echo "Request sent."  
  
exit;  
  
}  
if ($action == 'requests') {  
  
    $result = mysqli_query($con, "SELECT * FROM friendreq WHERE toreq='$userid'  
AND status=0");
```

```
while ($row = mysqli_fetch_assoc($result)) {  
  
    $fromid = $row['fromreq'];  
    $user = mysqli_fetch_assoc(mysqli_query($con, "SELECT username FROM  
txt92849x99x_userinfo WHERE id='$fromid'"));
```

```
        echo $user['username'] . " <button class='accept-btn' data-  
id='{ $row['id']}'>Accept</button> <button class='reject-btn' data-  
id='{ $row['id']}'>Reject</button><br>";  
  
    }  
  
    exit;  
  
}  
  
    if ($action == 'accept') {  
        $reqid = $_POST['reqid'];  
  
        mysqli_query($con, "UPDATE friendreq SET status=1 WHERE id='$reqid' AND  
toreq='$userid'");  
  
        echo "Request accepted.";  
  
        exit;  
  
    }  
  
    if ($action == 'reject') {  
  
        $reqid = $_POST['reqid'];  
        mysqli_query($con, "UPDATE friendreq SET status=2 WHERE id='$reqid' AND  
toreq='$userid'");  
  
        echo "Request rejected.";  
  
        exit;  
  
    }  
  
    if ($action == 'friends') {  
        $result = mysqli_query($con, "SELECT * FROM friendreq WHERE  
(fromreq='$userid' OR toreq='$userid') AND status=1");  
  
        while ($row = mysqli_fetch_assoc($result)) {  
            $friendid = ($row['fromreq'] == $userid) ? $row['toreq'] : $row['fromreq'];  
  
            $user = mysqli_fetch_assoc(mysqli_query($con, "SELECT username FROM  
txt92849x99x_userinfo WHERE id='$friendid'"));
```

```
        echo $user['username'] . "<br>";  
    }  
    exit;  
}  
?>
```

3. OUTPUT:-



The screenshot displays a web application interface. At the top, there's a navigation bar with tabs: Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers. Below this, the 'Table structure' tab is active, showing a table named 'friendreq' with the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	fromreq	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
3	toreq	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
4	status	varchar(100)	utf8mb4_general_ci		No	0			Change Drop More

Below the table structure, there's a section titled 'My Friends' with the text 'No friends yet.' and a 'Remove from central columns' button.

4. LEARNING OUTCOMES:-

- Understanding AJAX Fundamentals
- Asynchronous Communication with PHP
- Frontend Interaction Using JavaScript
- Database Design for User Relationships
- Dynamic UI Updates Without Reload
- Request Handling Logic in PHP
- Status Management (Sent, Accepted, Rejected)
- Using JSON for Data Exchange
- Security and Validation Checks