

Lab 02

**Web Engineering II**

**NATIONAL UNIVERSITY OF MODERN LANGUAGES, ISLAMABAD**

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| **LAB 02** | **jQuery + Ajax**  **Engr. Huma Nadeem** |

**Lab Objectives:**

1. Introduce jQuery concepts
2. Introduce Ajax concepts
3. Apply pagination on PHP Database–

**Software Required:**

* vscode

jQuery

.load() function

jQuery load() Method

The jQuery load() method is a simple, but powerful AJAX method.

The load() method loads data from a server and puts the returned data into the selected element.

Syntax

**Syntax:**

$(*selector*).load(*URL,data,callback*);

* 1. Create a basic web page

# index.php

<!DOCTYPE html>

<html>

<head>

    <title>Jquery AJAX, PHP and MySQL </title>

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">

    </script>

    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>

</head>

<body>

    <div style="width:85%;">

        <h2>Pagination with Jquery AJAX, MySQL and PHP </h2>

    </div>

</body>

</html>

Add the following In the body section

    <div id="content\_container"></div>

Add the following script to the body section

<script>

        $(document).ready(function() {

            $("#content\_container").load("ajaxpagination.php?page=1");

        });

    </script>

Create file ajaxpagination.php

<?php

include("databaseConnect.php");

?>

Create file databaseConnect

<?php

$servername = "localhost";

$username = "root";

$password = "";

$database = "TaskManager";

// Create connection

$conn = new mysqli($servername, $username, $password, $database);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

// Connected successfully

Ajaxpagination.php

$$per\_page = 20;

if(isset($\_GET['page'])) {

$page=$\_GET['page'];

}

$start = ($page-1)\*$per\_page;

$sql\_query = "SELECT \* FROM tasks ORDER BY taskID LIMIT $start,$per\_page ";

$resultset = mysqli\_query($conn, $sql\_query);

?>

Agaxpagination.php

Add following code to display data coming from database:

<table width="100%">

    <thead>

        <tr>

            <th> Id</th>

            <th>Task Name</th>

        </tr>

    </thead>

    <?php

    while ($rows = mysqli\_fetch\_array($resultset)) {  ?>

        <tr bgcolor="#DDEBF5">

            <td> <?php echo $rows['taskID']; ?></td>

            <td><?php echo $rows['taskName']; ?></td>

        </tr>

    <?php } ?>

</table>

Index.php

Add this above content\_container div

<div id="loading"><img src="images/loading.gif" /></div>

Include the following

In document.ready function script above content\_container div

<script>

        function hideLoading() {

            $("#loading").fadeOut('slow');

        };

        $("#content\_container").load("ajaxpagination.php?page=1", hideLoading());

    </script>

Ajaxpagination.php

Now we need to specify per page records:

Load in browser

Pagination links

Now we add links to other pages. For this, open index.php

Add following logic in first php tag

<?php $per\_page = 20;

    $sql = "SELECT \* FROM tasks";

    $result = mysqli\_query($conn, $sql);

    $count = mysqli\_num\_rows($result);

    $pages = ceil($count / $per\_page)

    ?>

Pagination class

Add a pagination class in content\_container

<div class="pagination" style="padding:10px;">

            <ul id="paginate">

                <?php

                for ($i = 1; $i <= $pages; $i++) {

                    echo '<li id="' . $i . '">' . $i . '</li>';

                }

                ?>

            </ul>

        </div>

Add style to index.php

<style>

        .pagination {

            float: left;

            width: 100%;

        }

        .botoom\_link {

            float: left;

            width: 100%;

        }

        .content {

            float: left;

            width: 100%;

        }

        ul {

            list-style: none;

            float: left;

            margin: 0;

            padding: 0;

        }

        li {

            list-style: none;

            float: left;

            margin-right: 16px;

            padding: 5px;

            border: solid 1px #dddddd;

            color: #0063DC;

        }

        li:hover {

            color: #FF0084;

            cursor: pointer;

        }

    </style>

Add styles in script

$("#paginate li:first").css({

            'color': '#FF0084'

        }).css({

            'border': 'none'

        });

        $("#content\_container").load("ajaxpagination.php?page=1", hideLoading());

        $("#paginate li").click(function() {

            $("#paginate li").css({

                'border': 'solid #dddddd 1px'

            }).css({

                'color': '#0063DC'

            });

            $(this).css({

                'color': '#FF0084'

            }).css({

                'border': 'none'

            });

            var page\_num = this.id;

            $("#content\_container").load("ajaxpagination.php?page=" + page\_num, hideLoading());

        })

## Lab Tasks:

* 1. Follow the above tutorial.
  2. Explore jQuery methods from w3schools tutorial: <https://www.w3schools.com/jquERy/default.asp>
  3. Implement Infinite Scroll by utilizing jQuery .scroll method.