**DOCUMENTATION**

* Created an HTML document
* In the head section added bootstrap and datatables css files.
* <!-- Bootstrap CSS -->
* <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
* integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
* <link rel="stylesheet" href="//cdn.datatables.net/1.11.4/css/jquery.dataTables.min.css">
* <title>Notes</title>
* In the body created a nav bar.
* <!-- Nav bar -->
* <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
* <div class="container-fluid">
* <a class="navbar-brand" href="#"><img src="/app5/php.jpg" alt="" height="28px"/></a>
* <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
* data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
* aria-label="Toggle navigation">
* <span class="navbar-toggler-icon"></span>
* </button>
* <div class="collapse navbar-collapse" id="navbarSupportedContent">
* <ul class="navbar-nav me-auto mb-2 mb-lg-0">
* <li class="nav-item">
* <a class="nav-link active" aria-current="page" href="#">Home</a>
* </li>
* <li class="nav-item">
* <a class="nav-link" href="#">About Us</a>
* </li>
* <li class="nav-item">
* <a class="nav-link" href="#">Contact Us</a>
* </li>
* </li> -->
* </ul>
* <form class="d-flex">
* <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
* <button class="btn btn-outline-success" type="submit">Search</button>
* </form>
* </div>
* </div>
* </nav>

In the navbar, I have added an image tag to place an image of php logo.

* Next section if of PHP. We are checking 3 variables(insert, delete and update) using if condition and if they are true, we are generating an alert (using bootstrap) to notify the users.

<!-- Php and insert Alert -->

    <?php

        if($insert)

        {

            echo "<div class='alert alert-success alert-dismissible fade show' role='alert'>

            <strong>Success!</strong> You note has been inserted successfully.

            <button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'></button>

            </div>";

        }

    ?>

    <!-- Php and delete Alert -->

    <?php

        if($delete)

        {

            echo "<div class='alert alert-success alert-dismissible fade show' role='alert'>

            <strong>Success!</strong> You note has been deleted successfully.

            <button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'></button>

            </div>";

        }

    ?>

    <!-- Php and update Alert -->

    <?php

        if($update)

        {

            echo "<div class='alert alert-success alert-dismissible fade show' role='alert'>

            <strong>Success!</strong> You note has been updated successfully.

            <button type='button' class='btn-close' data-bs-dismiss='alert' aria-label='Close'></button>

            </div>";

        }

    ?>

* Next, we have created a form(using bootstrap) where user can add a note and its title.
* The form has action attribute which redirects the form submission to itself.
* <!-- main form -->
* <div class="container my-4">
* <h2>Add a Note</h2>
* <form action="/app5/index.php" method="post">
* <div class="mb-3">
* <label for="title" class="form-label">Note Title</label>
* <input type="text" class="form-control" id="title" name="title" placeholder="Note Title"
* aria-describedby="emailHelp">
* </div>
* <div class="mb-3">
* <label for="desc" class="form-label">Note Description</label>
* <textarea class="form-control" id="desc" name="desc" placeholder="Note Description"></textarea>
* </div>
* <button type="submit" class="btn btn-primary">Add Note</button>
* </form>
* </div>
* Next section has used php and datatables to show all the notes added by the user from the database
* Used while loop to fetch and display the data.
* Created edit and delete buttons for each record to edit or delete the note.

<!-- PHP and select Table -->

    <div class="container my-4">

        <table class="table" id="myTable">

            <thead>

                <tr>

                    <th scope="col">S.No</th>

                    <th scope="col">Title</th>

                    <th scope="col">Description</th>

                    <th scope="col">Actions</th>

                </tr>

            </thead>

            <tbody>

                <?php

                $sql = "SELECT \* FROM `notes`";

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

                $sno = 0;

                while ($row = mysqli\_fetch\_assoc($result))

                {

                    $sno = $sno + 1;

                    echo "<tr>

                    <th scope='row'>".$sno."</th>

                    <td>".$row['title']."</td>

                    <td>".$row['description']."</td>

                    <td><button class='edit btn btn-sm btn-primary' id=".$row['sno'].">Edit</button> <button class='delete btn btn-sm btn-primary' id=d".$row['sno'].">Delete</button></td>

                </tr>";

                }

            ?>

            </tbody>

        </table>

    </div>

    <hr>

* Next section is for including jquery which is used by datatables.
* <script src="https://code.jquery.com/jquery-3.6.0.js"
* integrity="sha256-H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk=" crossorigin="anonymous"></script>
* We have also added script for including Bootstrap

 <!-- Option 1: Bootstrap Bundle with Popper -->

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"

        integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"

        crossorigin="anonymous"></script>

* Included javascript and code for implementing datatables
* <script src="//cdn.datatables.net/1.11.4/js/jquery.dataTables.min.js"></script>
* <script>
* $(document).ready(function () {
* $('#myTable').DataTable();
* });
* </script>
* Now add a new modal section, under the body tag. This will open a dialog box if we want to edit the note.
* We have created a form, which will allow the users to update the notes and submit the changes. The form will be redirected to itself after submission.
* <!-- Edit Modal -->
* <div class="modal fade" id="editmodal" tabindex="-1" aria-labelledby="editmodalLabel" aria-hidden="true">
* <div class="modal-dialog">
* <div class="modal-content">
* <div class="modal-header">
* <h5 class="modal-title" id="editmodalLabel">Edit Note</h5>
* <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
* </div>
* <form action="/app5/index.php" method="post">
* <div class="modal-body">
* <input type="hidden" name="snoedit" id="snoedit">
* <div class="mb-3">
* <label for="title" class="form-label">Note Title</label>
* <input type="text" class="form-control" id="titleedit" name="titleedit"
* placeholder="Note Title" aria-describedby="emailHelp">
* </div>
* <div class="mb-3">
* <label for="desc" class="form-label">Note Description</label>
* <textarea class="form-control" id="descedit" name="descedit"
* placeholder="Note Description"></textarea>
* </div>
* </div>
* <div class="modal-footer d-block mr-auto">
* <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
* <button type="submit" class="btn btn-primary">Save changes</button>
* </div>
* </form>
* </div>
* </div>
* </div>
* In the last section of the page, we are using javascript to toggle the modal box if edit button is clicked and a dialog box if a delete button is clicked.

<script>

        edits = document.getElementsByClassName('edit')

        Array.from(edits).forEach((element) => {

            element.addEventListener("click", (e) => {

                // console.log("edit",);

                tr = e.target.parentNode.parentNode;

                title = tr.getElementsByTagName("td")[0].innerText;

                description = tr.getElementsByTagName("td")[1].innerText;

                // console.log(title, description);

                titleedit.value = title;

                descedit.value = description;

                snoedit.value = e.target.id;

                console.log(e.target.id);

                var myModalEl = document.getElementById('editmodal')

                var modal = bootstrap.Modal.getOrCreateInstance(myModalEl)

                modal.toggle();

            })

        })

        deletes = document.getElementsByClassName('delete')

        Array.from(deletes).forEach((element) => {

            element.addEventListener("click", (e) => {

                sno = e.target.id.substr(1);

                if (confirm("Press a button")) {

                    console.log("yes");

                    window.location = `/app5/index.php?delete=${sno}`;

                }

                else {

                    console.log("no");

                }

            })

        })

    </script>

* In the start of this whole page add a php section to create a database connection.
* <!-- Database Settings and connection -->
* <?php
* ini\_set('display\_errors', '0');
* $insert = false;
* $update = false;
* $delete = false;
* // Connect to the Database
* $servername = "localhost";
* $username = "root";
* $password = "";
* $database = "notes";
* mysqli\_report(MYSQLI\_REPORT\_ALL ^ MYSQLI\_REPORT\_STRICT);
* // Create a connection
* $conn = mysqli\_connect($servername, $username, $password, $database);
* // Die if connection was not successful
* if (!$conn){
* die("Sorry we failed to connect: ". mysqli\_connect\_error());
* }
* Add php code for deleting records from the database.
* if (isset($\_GET['delete'])) {
* $sno = $\_GET['delete'];
* $delete = true;
* $sql = "DELETE FROM `notes` WHERE `sno` = '$sno'";
* $result = mysqli\_query($conn, $sql);
* }
* Then the following code is added to check if a post request is made and also if the request is to edit the existing note or to add a new note to the database.
* if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {
* if(isset($\_POST['snoedit']))
* {
* // Update the record
* $sno = $\_POST['snoedit'];
* $title = $\_POST['titleedit'];
* $description = $\_POST['descedit'];
* // SQL query for updating
* $sql = "UPDATE `notes` SET `title` = '$title' , `description` = '$description' WHERE `notes`.`sno` = $sno";
* $result = mysqli\_query($conn, $sql);
* if ($result) {
* $update = true;
* }
* else {
* echo "No records were updated";
* }
* }
* else {
* $title = $\_POST['title'];
* $description = $\_POST['desc'];
* // SQL query for inserting
* $sql = "INSERT INTO `notes` (`title`, `description`, `tstamp`) VALUES ('$title', '$description', '2022-02-09 11:58:47')";
* $result = mysqli\_query($conn, $sql);
* if ($result){
* // echo "Record Inserted";
* $insert = true;
* }
* else {
* echo "Record not inserted ". mysqli\_error($conn);;
* }
* }
* }