**TODO List HTML**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <meta http-equiv="X-UA-Compatible" content="ie=edge">

  <title>Document</title>

  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

  <script src="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.2/js/all.js"></script>

  <script src="script.js"></script>

  <link rel="stylesheet" href="style.css">

</head>

<body>

  <div class="container">

    <h1 align ="center">Todo List</h1>

    <div class="row">

      <!-- Input box -->

      <div class="col-md-7">

        <div class="form-group">

          <label for="inpNewTask">New Task</label>

          <input type="text" class="form-control" id="inpNewTask"

                  aria-describedby="newTaskHelp"

                  placeholder="Enter the name of the task">

          <small id="newTaskHelp" class="form-text text-muted">A short one line description of your task</small>

        </div>

      </div>

      <!--  Buttons -->

      <div class="col-md-5">

        <div class="row">

          <div class="col-6 col-sm-3 col-md-6 p-1">

            <button class="btn btn-success col" disabled id="btnAdd">

              <i class="fas fa-plus-square"></i> Add

            </button>

          </div>

          <div class="col-6 col-sm-3 col-md-6  p-1">

            <button class="btn btn-danger col" disabled id="btnReset">

              <i class="fas fa-backspace"></i> Reset

            </button>

          </div>

          <div class="col-6 col-sm-3 col-md-6  p-1">

            <button class="btn btn-info col" disabled id="btnSort">

              <i class="fas fa-sort-amount-down"></i> Sort

            </button>

          </div>

          <div class="col-6 col-sm-3 col-md-6  p-1">

            <button class="btn btn-warning col" disabled id="btnCleanup">

              <i class="fas fa-trash-alt"></i> Cleanup

            </button>

          </div>

        </div>

      </div>

    </div>

    <!-- Task List -->

    <ul class="row list-group m-2" id="ulTasks">

    </ul>

    <div class="row">

      <button id="clearall" class="btn btn-danger col-12">Clear List</button>

    </div>

    <div class="row">

      <div class="btn btn-dark col-12 m-2">

        <i class="fab fa-github fa-2x link"></i>

        <a href="https://github.com/kartikeya72001/Notes" class="link">Link To Code</a>

      </div>

    </div>

  </div>

</body>

</html>

**CSS**

#ulTasks li.done {

  color: #6c757d;

  text-decoration: line-through;

}

.link{

  color: white;

}

**JavaScript**

let taskList = []

let Removed = []

$(() => {

  //Refresh List

  function RefreshList() {

    ulTasks.html("");

    for (let task of taskList) {

      // console.log(task)

      let listItem = $('<li>', {

        'class': 'list-group-item',

        text: task

      })

      // console.log((listItem.text()))

      listItem.click(() => {

        listItem.toggleClass('done')

        if(taskList.indexOf(listItem.text())+1){

          Removed.push(listItem.text())

          let idx =taskList.indexOf(listItem.text())

          taskList.splice(idx,1)

        }else{

          taskList.push(listItem.text())

          let idx =Removed.indexOf(listItem.text())

          Removed.splice(idx,1)

        }

      })

      ulTasks.append(listItem)

      inpNewTask.val('')

      toggleInputButtons()

    }

  }

  //add function

  function addItem(){

    taskList.push(inpNewTask.val())

    RefreshList()

    localStorage.task = taskList.join(',')

  }

  //clearing list

  function deleteAll() {

    taskList.splice(0, taskList.length)

    Removed.splice(0, Removed.length)

    RefreshList()

    localStorage.removeItem("task")

  }

  //clear function for removing striked data

  function clearDone() {

    $('#ulTasks .done').remove()

    Removed.splice(0, Removed.length)

    localStorage.task = taskList.join(',')

    RefreshList()

    toggleInputButtons()

  }

  //sepreting done and not done task

  function sortTasks() {

    $('#ulTasks .done').appendTo(ulTasks)

  }

  //designing btns

  function toggleInputButtons() {

    btnReset.prop('disabled', inpNewTask.val() == '')

    btnAdd.prop('disabled', inpNewTask.val() == '')

    btnSort.prop('disabled', ulTasks.children().length < 1)

    btnCleanup.prop('disabled', ulTasks.children().length < 1)

  }

  //getting elements

  let ulTasks = $('#ulTasks')

  let btnAdd = $('#btnAdd')

  let btnReset = $('#btnReset')

  let btnSort = $('#btnSort')

  let btnCleanup = $('#btnCleanup')

  let inpNewTask = $('#inpNewTask')

  let clearall = $('#clearall')

  //handling enter key

  inpNewTask.keypress((e) => {

    if (e.which == 13) addItem()

  })

  inpNewTask.on('input', toggleInputButtons)

  //handling already existing elments

  if (localStorage.task) {

    taskList = localStorage.task.split(',')

  }

  RefreshList()

  //handling clicks on custom btns

  btnAdd.click(addItem)

  btnReset.click(() => {

    inpNewTask.val('')

    toggleInputButtons()

  })

  btnCleanup.click(clearDone)

  btnSort.click(sortTasks)

  clearall.click (deleteAll)

})

