A PROJECT REPORT



DST-PROJECT

PROJECT NAME = NOTEBOOK

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**CERTIFICATE**

I hereby certify that the project description titled “NOTE-BOOK” which is submitted by Aditya Kumar of roll number 2K19/IT/007 and Anup Kumar of roll number 2K19/IT/027 , INFORMATION TECHNOLOGY, DELHI TECHNOLOGICAL UNIVERSITY, Delhi.

Place : Delhi Swati Shardha

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**ACKNOWLEDGEMENT**

I would like to convey our thanks to our professor Mrs. Swati Shardha for her ideas, tremendous help and cooperation.

I an extremely grateful to my friends who gave valuable suggestions and guidance for completion of my project.

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**Introduction**

1. Add notes or pages in notebook.  
2. Write notes or anything and keep it safe on a website where you want to search and delete your notes.  
4. We'll make this project using Searching algorithm .  
5. Insert , Delete , Search (basic concepts of data structures will use).  
6. Languages used = HTML, CSS, JAVASCRIPT.

**WORKING**

Write in the page(title and the information) inside the input bar and then click to the add button.

Then the page stores in the storage in the form of array of objects.

There is an local storage in every web page where all the objects(page) we inserted added in the form of key-value pair key is the title of the page and whole description stored as a value in the local storage.

If we write the title and the description in the input bar and then click to the add button, then the key-value pair of title and description stored in the local-storage ( first converting into string then added because local storage always stored values in form of string ).

For deletion , the key-value pair retrieve from the local storage by converting string to objects, then make the array of objects , then delete the pair using slice function.

**CODE FOR OUR PROJECT**

FILE-1: (home.html)

<!doctype html>

<html lang="en">

<head>

    <!-- Required meta tags -->

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->

    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"

        integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">

    <title>Notebook</title>

</head>

<body>

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark" >

        <a class="navbar-brand" style="margin-left: 569px;" >NoteBook</a>

    </nav>

    <div class="container my-5"

        style="border: 3px solid black; padding: 36px 33px; background-color: rgb(240, 229, 181); box-shadow: 30px 30px 10px;border-radius: 95px;">

        <h1 style="margin-left: 420px; text-shadow: 2px 2px rgb(138, 141, 141);" class="my-3">Login Here</h1>

        <div class="card" action="/notebook/index.html"

            style="padding: 20px;border-radius: 58px; box-shadow: 9px 9px 10px; border: 2px solid gray; background-color: rgb(235, 223, 223);">

            <div class="card-body">

                <div class="form-group">

                    <h5 class="card-title" style="margin-left: 40px; text-shadow: 2px 2px rgb(138, 141, 141);">Enter your Email Address</h5>

                    <input type="email" class="form-control" style=" box-shadow:5px 5px 5px;" id="email" aria-describedby="email">

                  </div>

                <div class="form-group">

                    <h5 class="card-title" style="margin-left: 40px; text-shadow: 2px 2px rgb(138, 141, 141);"> Enter your Name</h5>

                    <input type="name" class="form-control" style=" box-shadow:5px 5px 5px;" id="name" aria-describedby="name">

                  </div>

                <div class="form-group">

                    <h5 class="card-title" style="margin-left: 40px; text-shadow: 2px 2px rgb(138, 141, 141);">Enter the password</h5>

                    <input type="password" style=" box-shadow:5px 5px 5px;" class="form-control" id="password" aria-describedby="password">

                  </div>

                <button class="btn btn-secondary" id="addBtn" style="margin-left: 405px;">Create NoteBook</button>

            </div>

        </div>

    </div>

    <div class="container">

        <nav class="navbar navbar-dark " style="background-color: rgb(158, 177, 211); border: 2px solid black; border-radius: 25px; box-shadow: 12px 12px 5px;">

            <form class="form-inline">

              <input class="form-control mr-sm-2" id="search" style="margin-left: 427px; box-shadow: 5px 5px 5px" type="search" placeholder="Search" aria-label="Search">

            </form>

          </nav>

    </div>

      <br>

    <div class="container"

    style="border: 3px solid black; padding: 36px 33px; background-color: rgb(240, 229, 181); box-shadow: 30px 30px 10px;border-radius: 95px;">

        <h1  style="margin-left: 420px; text-shadow: 2px 2px rgb(138, 141, 141);" class="my-3">Notebooks</h1>

        <div id="pages" class="row container-fluid">

        </div>

    </div>

    <!-- Optional JavaScript -->

    <!-- jQuery first, then Popper.js, then Bootstrap JS -->

    <script src="home.js"></script>

    <script src="index.js"></script>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"

        integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"

        crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"

        integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"

        crossorigin="anonymous"></script>

    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"

        integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"

        crossorigin="anonymous"></script>

</body>

</html>

FILE-2: (home.js)

showpaeges(); // why we add this function here, because if the web-page reloaded then all the pages will appear automatically, if we don't call this function here, then all the pages will get vanish with the web-page reloading.

// If user add the pages in the notebook , then it add to the localstorage

let addBtn = document.getElementById('addBtn');

addBtn.addEventListener('click', function (e) {

    // whenever user click on the add button then this will happen.

    let email = document.getElementById('email');

    let password = document.getElementById('password');

    let name = document.getElementById('name');

    let pages = localStorage.getItem('pages');

    if (pages == null) {

        pagesObj = [];

    }

    else {

        pagesObj = JSON.parse(pages);

    }

    let TandP = {

        Email: email.value,

        Password: password.value,

        Name: name.value

    }

    pagesObj.push(TandP);

    localStorage.setItem('pages', JSON.stringify(pagesObj)) // convert the notes into string(which is an array now)

    // converting in string from array because in the localstorage , it is mandatory to set the data in strings.

    email.value = ''; // we set add.Txt as blank ecuse when we add the page then after adding the textarea get clear for new pages.

    password.value = ''; // we set add.Txt as blank ecuse when we add the page then after adding the textarea get clear for new pages.

    name.value = ''; // we set add.Txt as blank ecuse when we add the page then after adding the textarea get clear for new pages.

    console.log(pagesObj);

    showpaeges();

})

function showpaeges() {

    let pages = localStorage.getItem('pages');

    if (pages == null) {

        pagesObj = [];

    }

    else {

        pagesObj = JSON.parse(pages);

    }

    let html = '';

    pagesObj.forEach(function (element, index) {

        html += `

                    <div class="pageCard card my2 mx-2" style="width: 1088px; margin: 12px;  border: 2px solid grey;">

                    <div class="card-body" style="margin: 20px 23px;

            padding: 15px 15px;border: 2px solid black; box-shadow: 9px 9px 10px;">

            <h5 class="card-title">Student No. ( ${index + 1} ) : ${element.Name}</h5>

            <p class="card-text"> Email is : ${element.Email}</p>

            <a href="/notebook/index.html"> <button id="${index}"   class="c btn btn-primary">Go to the NoteBook</button></a>

            <button id="${index}" onclick="deletePage(this.id)" class="btn btn-primary">Delete NoteBook</button>

            </div>

            </div>    `;

    });

    let pagesElm = document.getElementById('pages');

    // here , if there is no pages then show shoe message "write somthing to add"

    if (pagesObj.length != 0) {

        pagesElm.innerHTML = html;

    }

    else {

        pagesElm.innerHTML = '<h3 style="margin-left: 150px;">Please Enter Your Name and Details to get the Note-Book</h3>';

    }

}

let c = document.getElementsByClassName('c');

// Logic for Deleting the page.

function deletePage(index) {

    let pages = localStorage.getItem('pages');

    if (pages == null) {

        pagesObj = [];

    }

    else {

        pagesObj = JSON.parse(pages);

    }

    pagesObj.splice(index, 1);

    localStorage.setItem('pages', JSON.stringify(pagesObj))

    showpaeges();

}

// serching

let search = document.getElementById("search");

search.addEventListener("input", function () {

    let searchV = search.value;

    console.log("input event fired");

    let pagecards = document.getElementsByClassName("pageCard");

    Array.from(pagecards).forEach(function (element) {

        let cardtext = element.getElementsByTagName('p')[0].innerText; // if user input text in the search bar

        let cardIndex = element.getElementsByTagName('h5')[0].innerText; // if user input page Number in the search bar

        console.log(cardtext);

        // console.log(cardIndex[index]);

        if (cardtext.includes(searchV) || cardIndex.includes(searchV)) {

            element.style.display = 'block';

        }

        else {

            element.style.display = 'none';

        }

    })

})

FILE-3: (index.html)

<!doctype html>

<html lang="en">

<head>

    <!-- Required meta tags -->

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->

    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"

        integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">

    <title>Notebook</title>

</head>

<body>

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark" >

        <a class="navbar-brand" style="margin-left: 569px;" href="#">NoteBook</a>

    </nav>

    <div id="mes">

    </div>

    <div class="container my-5"

        style="border: 3px solid black; padding: 36px 33px; background-color: rgb(193, 240, 216); box-shadow: 30px 30px 10px;">

        <h1 style="margin-left: 280px;">Welcome To NoteBook</h1>

        <div class="card"

            style="padding: 20px; box-shadow: 9px 9px 10px; border: 2px solid gray; background-color: rgb(235, 223, 223);">

            <div class="card-body">

                <div class="form-group">

                    <h5 class="card-title" style="margin-left: 429px;">Title</h5>

                    <input type="text" style=" box-shadow:5px 5px 5px;" class="form-control" id="addTitle" aria-describedby="title">

                  </div>

                <h5 class="card-title" style="margin-left: 409px;">ADD PAGE</h5>

                <div class="form-group">

                    <textarea class="form-control"  style=" box-shadow:5px 5px 5px;" id="addTxt" rows="3"></textarea>

                </div>

                <button class="btn btn-primary" id="addBtn" style="margin-left: 405px;">Add Page</button>

            </div>

        </div>

    </div>

    <div class="container">

        <nav class="navbar navbar-dark " style="background-color: rgb(158, 177, 211); border: 2px solid black; border-radius: 25px; box-shadow: 12px 12px 5px;">

            <form class="form-inline">

              <input class="form-control mr-sm-2" id="search" style="margin-left: 377px;" type="search" placeholder="Search" aria-label="Search">

            </form>

          </nav>

    </div>

      <br>

    <div class="container"

        style="border: 3px solid black; padding: 36px 33px; background-color: rgb(193, 240, 216); box-shadow: 30px 30px 10px;">

        <h1 style="margin-left: 344px;">NoteBook Pages</h1>

        <div id="pages" class="row container-fluid">

        </div>

    </div>

    <!-- Optional JavaScript -->

    <!-- jQuery first, then Popper.js, then Bootstrap JS -->

    <script src="index.js"></script>

    <script src="home.js"></script>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"

        integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"

        crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"

        integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"

        crossorigin="anonymous"></script>

    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"

        integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"

        crossorigin="anonymous"></script>

</body>

</html>

FILE-4: (index.js)

showpages(); // why we add this function here, because if the web-page reloaded then all the pages will appear automatically, if we don't call this function here, then all the pages will get vanish with the web-page reloading.

// If user add the pages in the notebook , then it add to the localstorage

let addBtn = document.getElementById('addBtn');

addBtn.addEventListener('click', function () {

    // whenever user click on the add button then this will happen.

    let addTxt = document.getElementById('addTxt');

    let addTitle = document.getElementById('addTitle');

    let pages = sessionStorage.getItem('pages');

    if (pages == null) {

        pagesObj = [];

    }

    else {

        pagesObj = JSON.parse(pages);

    }

    let TandP = {

        title: addTitle.value,

        text: addTxt.value

    }

    pagesObj.push(TandP);

    sessionStorage.setItem('pages', JSON.stringify(pagesObj)) // convert the notes into string(which is an array now)

    // converting in string from array because in the localstorage , it is mandatory to set the data in strings.

    addTxt.value = ''; // we set add.Txt as blank becuse when we add the page then after adding the textarea get clear for new pages.

    addTitle.value = ''; // we set add.Txt as blank becuse when we add the page then after adding the textarea get clear for new pages.

    // console.log(pagesObj);

    showpages(); // show all the pages after addition of content of the page.

})

function showpages() {

    let pages = sessionStorage.getItem('pages');

    if (pages == null) {

        pagesObj = [];

    }

    else {

        pagesObj = JSON.parse(pages);

    }

    let html = '';

    pagesObj.forEach(function (element, index) {

        html += `

                    <div class="pageCard card my2 mx-2" style="width: 1088px; margin: 12px;  border: 2px solid grey;">

                    <div class="card-body" style="margin: 20px 23px;

            padding: 15px 15px;border: 2px solid black; box-shadow: 9px 9px 10px;">

            <h5 class="card-title">Page ${index + 1} : ${element.title}</h5>

            <p class="card-text"> ${element.text}</p>

            <button id="${index}" onclick="deletePage(this.id)" class="btn btn-primary">Delete Page</button>

            </div>

            </div>    `;

    });

    let pagesElm = document.getElementById('pages');

    // here , if there is no pages then show  message "write somthing to add"

    if (pagesObj.length != 0) {

        pagesElm.innerHTML = html;

    }

    else {

        pagesElm.innerHTML = '<h3 style="margin-left: 150px;">Here you can add and delete pages of the notebook</h3>';

    }

}

// Deleting the page.

function deletePage(index) {

    let pages = sessionStorage.getItem('pages');

    if (pages == null) {

        pagesObj = [];

    }

    else {

        pagesObj = JSON.parse(pages);

    }

    pagesObj.splice(index, 1);

    sessionStorage.setItem('pages', JSON.stringify(pagesObj))

    showpages();

}

// serching

let search = document.getElementById("search");

search.addEventListener("input", function () {

    let searchV = search.value;

    let pagecards = document.getElementsByClassName("pageCard");

    Array.from(pagecards).forEach(function (element) {

        let cardtext = element.getElementsByTagName('p')[0].innerText; // if user input text in the search bar

        let cardIndex = element.getElementsByTagName('h5')[0].innerText; // if user input page Number in the search bar

        console.log(cardtext);

        // console.log(cardIndex[index]);

        if (cardtext.includes(searchV) || cardIndex.includes(searchV)) {

            element.style.display = 'block';

        }

        else {

            element.style.display = 'none';

        }

    })

})

**OUTPUT**













