



## Creating Editable Div Using JavaScript: Exercise 2 | JavaScript Tutorial In Hindi #21

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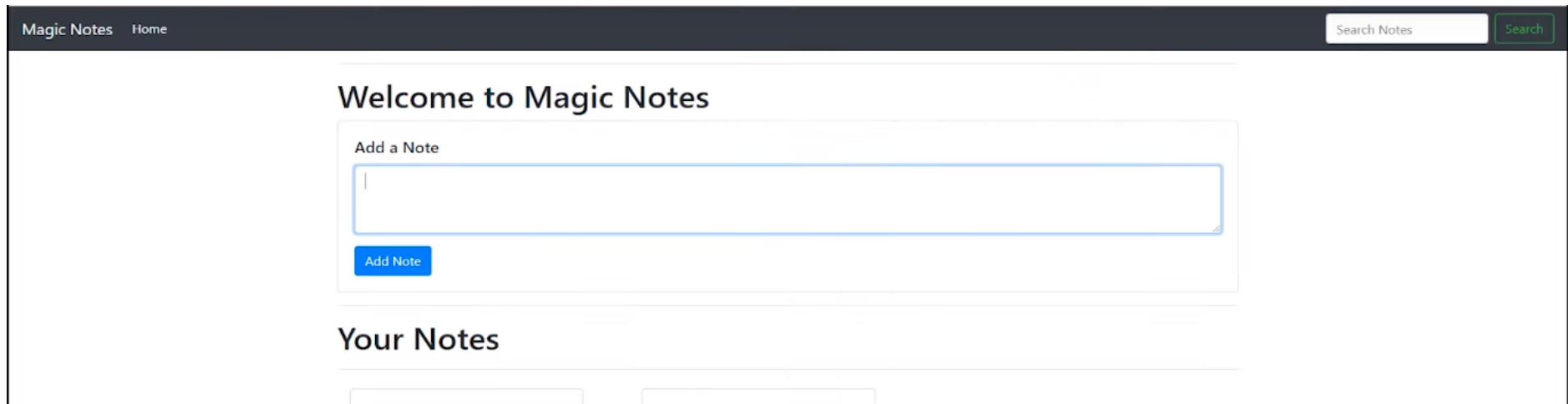
## Project 1: Build a Notes Taking Website Using Pure JavaScript | JavaScript Tutorial In Hindi #22

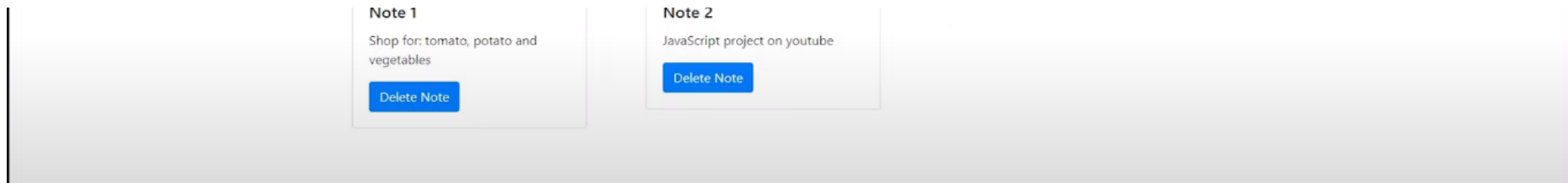
Now it's time to start our first project, which is to build a note taking website. Projects snowball your coding skills. Programmers are always learning new things from new projects. The project details are explained below.

### Project Explanation:

The project we are building is ***"Note Taking Website App Using Pure JavaScript."*** We all have a notes app on our mobiles or laptop. **Note-taking websites** are the online equivalent of notebooks, and because they are digital, they can do more for you than paper ever could. You can even build a more advanced level note-taking website, but we will keep it simple for now, as it is our first project!

The website we are going to build in this tutorial looks like the following image:





### Setting Up the Project

For this project, we will use the VS Code. **Visual Studio Code** is a free and powerful source-code editor that runs on the desktop. If you have not installed the Virtual Studio Code yet, then click on the link below for installation guidance:

<https://codewithharry.com/videos/javascript-tutorials-in-hindi-1>

The project setup is really simple. Because we only want to use JavaScript without any frameworks. Start by creating a new project folder in VS Code, and inside that project folder, create two empty new files: *index.html* and *app.js*. The *index.html* file is the entry point for our website and contains the HTML code. In this project, we are also using **Bootstrap**. If you are not familiar with Bootstrap, then do not worry; just follow the tutorial. The file *app.js* will be included in *index.html*.

### Bootstrap:-

If you are studying web development, you must have come across the word Bootstrap. It is used for applying styling the user interface components. The easiest way to include Bootstrap is to add it from <https://getbootstrap.com/docs/4.0/getting-started/introduction/>.

First add the following in the head section:

```
<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">
```

Then include the following code in the body section, before the closing `</body>` tag:

```
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-U02eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1c1HTMga3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/njGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>
```

**Bootstrap** is bundled with many components that can be used to provide good user experience and user interactions in a web page like cards, navigation bars, dropdowns, icons, buttons, forms and also sizing options for different DOM elements. In this project, we are using bootstrap components for making the front end

of website. Then after designing the website, we will add logic into it using pure JavaScript.

So, let's start coding!!!

**Website.html code as described/written in the video**

```
<!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>Notes App</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">
</head>

<body>

  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <a class="navbar-brand" href="#">Magic Notes</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-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 mr-auto">
        <li class="nav-item active">
          <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
        </li>

      </ul>
      <form class="form-inline my-2 my-lg-0">
        <input class="form-control mr-sm-2" id="searchTxt" type="search" placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
      </form>

  </nav>
```

```
</div>
</nav>

<div class="container my-3">
  <h1>Welcome To Magic Notes</h1>
  <div class="card">
    <div class="card-body">
      <h5 class="card-title">Add a note</h5>
      <div class="form-group">
        <textarea class="form-control" id="addTxt" rows="3"></textarea>
      </div>
      <button class="btn btn-primary" id="addBtn">Add Note</button>
    </div>
  </div>
  <hr>
  <h1>Your Notes</h1>
  <hr>
  <div id="notes" class="row container-fluid"> </div>
</div>

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
  integrity="sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
  crossorigin="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
  integrity="sha384-U02eT0CpHqdSJJQ6hJty5KVphtPhzWj9W01clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
  crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
  integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
  crossorigin="anonymous"></script>
<script src="js/app.js"></script>
</body>

</html>
```

JavaScript code as described/written in the video

Copy

```
console.log("Welcome to notes app. This is app.js");
showNotes();

// If user adds a note, add it to the localStorage
let addBtn = document.getElementById("addBtn");
addBtn.addEventListener("click", function(e) {
    let addTxt = document.getElementById("addTxt");
    let notes = localStorage.getItem("notes");
    if (notes == null) {
        notesObj = [];
    } else {
        notesObj = JSON.parse(notes);
    }
    notesObj.push(addTxt.value);
    localStorage.setItem("notes", JSON.stringify(notesObj));
    addTxt.value = "";
    // console.log(notesObj);
    showNotes();
});

// Function to show elements from localStorage
function showNotes() {
    let notes = localStorage.getItem("notes");
    if (notes == null) {
        notesObj = [];
    } else {
        notesObj = JSON.parse(notes);
    }
    let html = "";
    notesObj.forEach(function(element, index) {
        html += `
            <div class="noteCard my-2 mx-2 card" style="width: 18rem;">
                <div class="card-body">
                    <h5 class="card-title">Note ${index + 1}</h5>
                    <p class="card-text"> ${element}</p>
                    <button id="${index}"onclick="deleteNote(this.id)" class="btn btn-primary">Delete Note</button>
                </div>
            </div>`;
    });
}
```

```
});
let notesElm = document.getElementById("notes");
if (notesObj.length !== 0) {
    notesElm.innerHTML = html;
} else {
    notesElm.innerHTML = `Nothing to show! Use "Add a Note" section above to add notes.`;
}
}

// Function to delete a note
function deleteNote(index) {
    // console.log("I am deleting", index);

    let notes = localStorage.getItem("notes");
    if (notes === null) {
        notesObj = [];
    } else {
        notesObj = JSON.parse(notes);
    }

    notesObj.splice(index, 1);
    localStorage.setItem("notes", JSON.stringify(notesObj));
    showNotes();
}

let search = document.getElementById('searchTxt');
search.addEventListener("input", function(){

    let inputVal = search.value.toLowerCase();
    // console.log('Input event fired!', inputVal);
    let noteCards = document.getElementsByClassName('noteCard');
    Array.from(noteCards).forEach(function(element){
        let cardTxt = element.getElementsByTagName("p")[0].innerText;
        if(cardTxt.includes(inputVal)){
            element.style.display = "block";
        }
        else{

```

```
        element.style.display = "none";
    }
    // console.log(cardTxt);
  })
})
```

```
/*
```

Further Features:

1. Add Title
  2. Mark a note as Important
  3. Separate notes by user
  4. Sync and host to web server
- ```
*/
```

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