

Website Builder Code

// **Backend Code (Node.js + Express)**

// server.js

const express = require('express');

const multer = require('multer');

const fs = require('fs');

const path = require('path');

const app = express();

const PORT = 3001;

// Set up storage for uploaded files

const storage = multer.diskStorage({

destination: (req, file, cb) => {

cb(null, 'uploads/');

},

filename: (req, file, cb) => {

cb(null, file.originalname);

}

});

const upload = multer({ storage });

// Create a route to handle file uploads

app.post('/upload', upload.fields([{ name: 'html' }, { name: 'css' }, { name: 'js' }]), (req, res) => {

```
const htmlPath = path.join(__dirname, 'uploads', 'index.html');

const cssPath = path.join(__dirname, 'uploads', 'style.css');

const jsPath = path.join(__dirname, 'uploads', 'script.js');


// Read uploaded files and write to respective paths

fs.writeFileSync(htmlPath, req.files['html'][0].buffer.toString());

fs.writeFileSync(cssPath, req.files['css'][0].buffer.toString());

fs.writeFileSync(jsPath, req.files['js'][0].buffer.toString());


// Respond with success message

res.status(200).send({ message: 'Files uploaded successfully!' });

});


// Serve static files

app.use('/static', express.static(path.join(__dirname, 'uploads')));


app.listen(PORT, () => {

  console.log(`Server running on http://localhost:${PORT}`);

});


// **Frontend Code (React)**


// App.js

import React, { useState } from "react";

import './App.css';

import axios from 'axios';
```

```

function App() {

  const [htmlCode, setHtmlCode] = useState("");

  const [cssCode, setCssCode] = useState("");

  const [jsCode, setJsCode] = useState("");

  const [preview, setPreview] = useState("");


  const generatePreview = () => {

    const htmlTemplate = `

      <!DOCTYPE html>

      <html lang="en">

      <head>

        <meta charset="UTF-8">

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

        <title>Preview</title>

        <style>${cssCode}</style>

      </head>

      <body>

        ${htmlCode}

        <script>${jsCode}</script>

      </body>

      </html>

    `;

    setPreview(htmlTemplate);

  };


  const handleFileUpload = async () => {

    const formData = new FormData();

```

```
formData.append('html', new Blob([htmlCode], { type: 'text/html' }));  
formData.append('css', new Blob([cssCode], { type: 'text/css' }));  
formData.append('js', new Blob([jsCode], { type: 'application/javascript' }));
```

```
try {  
  await axios.post('http://localhost:3001/upload', formData);  
  alert('Files uploaded successfully');  
} catch (error) {  
  console.error('Error uploading files:', error);  
  alert('File upload failed');  
}  
};
```

```
return (  
  <div className="App">  
    <header>  
      <h1>Website Builder</h1>  
      <p>Create and publish websites by pasting your code below!</p>  
    </header>  
  
    <section id="publish-tool">  
      <h2>Paste Your Code and Publish</h2>  
      <div className="code-editor">  
        <textarea  
          placeholder="Paste your HTML code here"  
          value={htmlCode}  
          onChange={(e) => setHtmlCode(e.target.value)}  
        />  
      </div>  
    </section>  
  </div>  
)
```

></textarea>

<textarea

placeholder="Paste your CSS code here"

value={cssCode}

onChange={(e) => setCssCode(e.target.value)}

></textarea>

<textarea

placeholder="Paste your JavaScript code here"

value={jsCode}

onChange={(e) => setJsCode(e.target.value)}

></textarea>

</div>

<div className="buttons">

<button onClick={generatePreview}>Generate Preview</button>

<button onClick={handleFileUpload}>Upload and Publish</button>

</div>

<iframe

srcDoc={preview}

title="Website Preview"

frameBorder="0"

style={{ width: "100%", height: "500px", marginTop: "20px" }}

></iframe>

</section>

<footer>

<p>© 2024 Website Builder Platform. All rights reserved.</p>

</footer>

```
    </div>

  );
}

export default App;

// **App.css**

body {
  margin: 0;
  font-family: Arial, sans-serif;
  line-height: 1.6;
  background-color: #f4f4f4;
  color: #333;
}

.App {
  text-align: center;
  padding: 20px;
}

header {
  background: #007bff;
  color: white;
  padding: 20px 0;
  margin-bottom: 20px;
}
```

```
header h1 {  
  margin: 0;  
}
```

```
textarea {  
  width: 100%;  
  height: 150px;  
  font-family: monospace;  
  font-size: 1rem;  
  padding: 10px;  
  border: 1px solid #ccc;  
  margin-bottom: 10px;  
}
```

```
textarea:focus {  
  outline: none;  
  border-color: #007bff;  
}
```

```
.buttons button {  
  margin: 0 10px;  
  padding: 10px 20px;  
  background-color: #007bff;  
  color: white;  
  border: none;  
  cursor: pointer;
```

```
}
```

```
.buttons button:hover {  
    background-color: #0056b3;  
}
```

```
iframe {  
    background: white;  
}
```