**Example: Deploying a Client-Side JavaScript Program on Render**

Let’s say you have a simple **HTML + CSS + JavaScript** app (a static website). The project might look like this:

render-example/

│

├── index.html

├── styles.css

└── script.js

**Step 1: Prepare Your Project**

1. **Create an index.html file:**

html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Hello Render</title>

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

</head>

<body>

<h1>Hello, Render!</h1>

<button id="clickMe">Click Me</button>

<p id="message"></p>

<script src="script.js"></script>

</body>

</html>

1. **Create a styles.css file:**

body {

font-family: Arial, sans-serif;

text-align: center;

margin-top: 50px;

}

h1 {

color: #333;

}

1. **Create a script.js file:**

document.getElementById('clickMe').addEventListener('click', function () {

document.getElementById('message').innerText = 'Hello from JavaScript!';

});

**Step 2: Upload the Project to GitHub**

1. Initialize a local Git repository:

git init

git add .

git commit -m "Initial commit"

1. Create a new repository on GitHub.
2. Push the code to the GitHub repository:

git remote add origin https://github.com/your-username/render-example.git

git push -u origin master

**Step 3: Deploy the Project on Render**

1. **Login to Render**:
   * Go to [Render.com](https://render.com) and log in or sign up.
2. **Create a New Static Site**:
   * In the Render dashboard, click **New** > **Static Site**.
3. **Connect to GitHub**:
   * Authorize Render to access your GitHub account if you haven't done so already.
   * Select the repository you just created (render-example).
4. **Configure the Deployment**:
   * Set the **Name** for your site (e.g., render-example).
   * **Branch**: Choose master or main (depending on what branch your code is on).
   * **Build Command**: You don’t need a build command for static sites, so leave it empty.
   * **Publish Directory**: Leave it as /, since the files are in the root directory of your project.
5. **Deploy**:
   * Click **Create Static Site**. Render will start the deployment process.
6. **View Your Live Site**:
   * Once the build is done, Render will provide you with a live URL (e.g., https://render-example.onrender.com).
   * You can visit the URL to see your client-side JavaScript program live!

**Step 4: Update the Site**

Whenever you make changes to your code, push them to your GitHub repository. Render will automatically detect the changes and redeploy your site.

**Summary**

* **Project Structure**: Your static site should include HTML, CSS, and JavaScript files.
* **Hosting Platform**: Render.com can host static sites for free.
* **Deployment Steps**:
  1. Push your project to GitHub.
  2. Connect the repository to Render.
  3. Deploy as a **Static Site** (no build command or server needed).

With this setup, you can easily deploy any client-side JavaScript program, whether it's a simple "Hello World" or a more complex web app!