## **Developing and Configuring React Application to Upload to S3 Bucket**

### **Purpose**

This document provides step-by-step instructions for developing and configuring the React-based application and AWS S3 bucket.

### **Requirements**

AWS user with AmazonS3FullAccess policy permission

NodeJS

Basic React application

### **Procedure**

#### **Step 1: Follow instructions in documentation linked below for setting up S3, installing the aws-sdk package, and adding UploadImageToS3WithNativeSdk and UploadImageToS3WithReactS3 to the React application**

<https://javascript.plainenglish.io/how-to-upload-files-to-aws-s3-in-react-591e533d615e>

Note: Use the .js extension instead of .ts for component file names.

#### **Step 2: Modify the UploadImageToS3WithNativeSdk Component to request the access keys from the user**

This step is to prevent the storage of AWS credentials in the code for security.

Change this:

const S3\_BUCKET ='YOUR\_BUCKET\_NAME\_HERE';

const REGION ='YOUR\_DESIRED\_REGION\_HERE';

To this:

 const [accessKey, setAccessKey] = useState(null);

 const [secretKey, setSecretKey] = useState(null);

Add this:

const handleSecretKey = (e) => {

        setSecretKey(e.target.value);

    }

    const handleAccessKey = (e) => {

        setAccessKey(e.target.value);

    }

<div>

    <input type="text" id="accessKey" title="Enter AWS Access Key" onChange={handleAccessKey}/>

    <input type="text" id="secretKey" title="Enter AWS Secret Key" onChange={handleSecretKey}/>

</div>

#### **Step 3: Add UploadImageToS3WithNativeSdk Component to App.js**

Add this:

import logo from './logo.svg';

import './App.css';

import './component/UploadImageToS3WithNativeSdk'

import UploadImageToS3WithNativeSdk from "./component/UploadImageToS3WithNativeSdk";

import UploadImageToS3WithReactS3 from "./component/UploadImageToS3WithReactS3";

function App() {

  return (

    <div className="App">

      <UploadImageToS3WithNativeSdk></UploadImageToS3WithNativeSdk>

    </div>

  );

}

export default App;

## **Conclusion**

This application allows a user to upload any file to an S3 bucket directly from the web app.