The app archeticture:



The index.html file:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Italian Restaurant Menu</title>

</head>

<body>

<h1>Place Your Order</h1>

<form action="/submit-order" method="POST">

<label for="name">Name:</label><br>

<input type="text" id="name" name="name" required><br><br>

<label for="contact">Contact Info:</label><br>

<input type="text" id="contact" name="contact" required><br><br>

<h2>Select Your Dishes:</h2>

<label for="pasta">Pasta:</label>

<select id="pasta" name="pasta">

<option value="">None</option>

<option value="Spaghetti Carbonara">Spaghetti Carbonara</option>

<option value="Penne Arrabbiata">Penne Arrabbiata</option>

<option value="Lasagna">Lasagna</option>

</select><br><br>

<label for="pizza">Pizza:</label>

<select id="pizza" name="pizza">

<option value="">None</option>

<option value="Margherita">Margherita</option>

<option value="Pepperoni">Pepperoni</option>

<option value="Quattro Stagioni">Quattro Stagioni</option>

</select><br><br>

<label for="dessert">Dessert:</label>

<select id="dessert" name="dessert">

<option value="">None</option>

<option value="Tiramisu">Tiramisu</option>

<option value="Panna Cotta">Panna Cotta</option>

<option value="Gelato">Gelato</option>

</select><br><br>

<input type="submit" value="Submit Order">

</form>

</body>

</html>

The server.js code that displays the web page and takes in the order details and sends them to the s3 bucket:

const express = require('express');

const bodyParser = require('body-parser');

const AWS = require('aws-sdk');

const app = express();

// Set up AWS S3

const s3 = new AWS.S3();

const bucketName = 'lab-s3---4'; // Your S3 bucket name

// Middleware to parse form data

app.use(bodyParser.json());

app.use(bodyParser.urlencoded({ extended: true }));

// Serve the HTML form with the menu

app.get('/', (req, res) => {

res.sendFile(\_\_dirname + '/index.html');

});

// Handle order submissions

app.post('/submit-order', (req, res) => {

const { name, contact, pasta, pizza, dessert } = req.body;

// Validate the form inputs

if (!name || !contact) {

return res.status(400).send('Please fill out all required fields.');

}

// Prepare the order data

const orderData = {

name: name,

contact: contact,

pasta: pasta || 'None',

pizza: pizza || 'None',

dessert: dessert || 'None',

timestamp: new Date(),

};

// S3 upload parameters

const params = {

Bucket: bucketName, // Your S3 bucket name

Key: `orders/${Date.now()}-order.json`, // The file name

Body: JSON.stringify(orderData), // The order content to store

ContentType: 'application/json', // Set content type

};

// Upload the order to S3

s3.putObject(params, (err, data) => {

if (err) {

console.error("Error uploading data: ", err);

return res.status(500).send('Error storing order.');

}

res.send(`Thank you, ${name}! Your order has been placed.`);

});

});

// Start the web server on port 3000

app.listen(3000, () => {

console.log('Italian restaurant app listening on port 3000!');

});

