Script.js  - > code for s3

```javascript
document.getElementById('contact-form').addEventListener('submit',
function(event) {
  event.preventDefault(); // Prevent form submission

  // Validate form inputs
  var name = document.getElementById('name').value.trim();
  var email = document.getElementById('email').value.trim();
  var subject = document.getElementById('subject').value.trim();
  var message = document.getElementById('message').value.trim();

  // Email validation using a regular expression
  var emailRegex = /^\S+@\S+\.\S+$/;
  if (!name || !email || !subject || !message || !emailRegex.test(email)) {
    alert('Please fill in all fields with valid inputs.');
    return;
  }

  // Construct the form data
  var formData = {
    name: name,
    email: email,
    subject: subject,
    message: message
  };

  // Perform form submission
  submitForm(formData);
});

function submitForm(formData) {
  // Make an API request to the backend (API Gateway) for form submission
  fetch('https://b1og0opyv2.execute-api.eu-west-1.amazonaws.com/prod/submit',
{ // URL that represents the backend API endpoint to which the form data is
going to be sent
    method: 'POST',
    headers: {
      'Content-Type': 'application/json'
    },

    body: JSON.stringify(formData)
  })
  .then(function(response) {
    if (response.ok) {
      // Redirect to the thank you page
      window.location.href = 'thank-you.html';
    } else {
      throw new Error('Form submission failed.');
```

```javascript
    }
  })
  .catch(function(error) {
    console.error(error);
    alert('Form submission failed. Please try again later.');
  });
}
```

Index.js --- > lambda code

```javascript
const AWS = require('aws-sdk');
const dynamodb = new AWS.DynamoDB.DocumentClient();
const { v4: uuidv4 } = require('uuid');

exports.handler = async (event) => {
  try {
    console.log('Raw input data:', event); // Add this line to log the raw
input data

    const formData = {
      name: event.name,
      email: event.email,
      subject: event.subject,
      message: event.message,
    };

    const item = {
      SubmissionId: generateUUID(), // Generate a UUID
      ...formData, // Use the form data as attributes
    };

    // Store the form data in DynamoDB
    await storeFormData(item);

    return {
      statusCode: 200,
      body: JSON.stringify({ message: 'Form submitted successfully' }),
    };
  } catch (error) {
    console.error(error);
    return {
      statusCode: 500,
      body: JSON.stringify({ message: 'Error submitting the form' }),
    };
  }
```

```javascript
};

async function storeFormData(item) {
  const params = {
    TableName: 'ContactFormEntries',
    Item: item,
  };

  await dynamodb.put(params).promise();
}

function generateUUID() {
  return uuidv4();
}
```