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

// Set this to the region you upload the Lambda function to.
AWS.config.region = 'us-west-2';

// Create the DynamoDB service object
var ddb = new AWS.DynamoDB({apiVersion: '2012-08-10'});

// generate random uuid

var lut = []; for (var i=0; i<256; i++) { lut[i] = (i<16?'0':')+'+(i).toString(16); }
function uuid() {
  var k=['x','x','x','x','-','x','x','-','4','x','-','y','x','-','x','x','x','x','x','x'];
  var u="",i=0,rb=Math.random()*0xffffffffl0;
  while(i++<20) {
    var c=k[i-1],r=rb&0xff,v=c=='x'?r:(c=='y'?r:(r&0x3f0x80):(r&0xf0x40));
    u+=(c=='-')?c:lut[v];rb=i%4==0?Math.random()*0xffffffffl0:rb>>8
  }
  return u
}

// get form data
exports.handler = function(evt, context, callback) {
  // Our raw request body will be in evt.body.
  const params = querystring.parse(evt.body);

  // Our field from the request.
  const fname = params['firstname'];
  const lname = params['lastname'];
  const mail = params['email'];
  const msg = params['message'];
  const newline = "\r\n";

  // db section

  var dbparams = {
    TableName: 'customer',
    Item: {
      'uuid' : {S: uuid()},
      'Email' : {S: mail},
      'FirstName' : {S: fname},
      'LastName' : {S: lname},
      'Text' : {S: msg}
    }
  };
};

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const error = `Database update failed` + newline;

// Call DynamoDB to add the item to the table
ddb.putItem(dbparams, function(err, data) {
  if (err) {
    callback(null, error);
  } else {
    console.log("Error", err);
  } else {
    console.log("Success", data);
  }
  // do nothing here for now
});

// if db update worked send back thank you msg etc etc...

  // Generate response back to user
  const html = `You submitted the following information:` + newline + `FirstName:` +
  fname + newline + `LastName:` + lname + newline + `Email:` + mail + newline +
  `Message:` + msg + newline + `Email was sent to email address you provided, thank
  you` + newline;

// send email to user

// Create email params
const paramsmail = {
  Destination: {
    ToAddresses: [mail]
  },
  Message: {
    Body: {
      Text: {
        Charset: "UTF-8",
        Data: "Thank you " + fname + " " + lname + " your information has been received"
      }
    },
    Subject: {
      Charset: "UTF-8",
      Data: fname + " " + lname
    }
  },
  Source: "AWS source email here"
};

// Create the promise and SES service object
const sendPromise = new AWS.SES({ apiVersion: "2010-12-01" })
  .sendEmail(paramsmail)

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.promise();

// Handle promise's fulfilled/rejected states
sendPromise
  .then(data => {
    // console.log(data.MessageId);
  })
  .catch(err => {
    // console.error(err, err.stack);
    // });

    // Return
    callback(null, html);
  };
```