**QUESTION.**

Use your own Database for this by creating a MYsql database. Created a small REST API and a web page.

**Problem Statement:**

1. Create a Web form which will take inputs from user. Below are the form fields. a. User Name b. Password c. Email Id d. Phone Number • Note\*: Use input field validation.
2. Create a REST API which will take request from the HTML form and insert the data into MySQL database along with the current Date and Time.
3. Your API should insert the record if it doesn‘t exist, else update the previous record.
4. Create a search bar which will take email id as input and show the respective record if exist, else show error.
5. MySQL Table struct and connection details; a. Table Struct: userName varchar(25) NOT Null, emailId varchar(50) primary key, phoneNo varchar(10) Not Null, password varchar(50) Not Null, dateTime Timestamp

**SOLUTION**

**Index.html**

<!DOCTYPE html>

<html lang="en" dir="ltr">

  <head>

    <meta charset="utf-8">

    <title>Webform</title>

  </head>

  <body>

      <form class='' action="http://localhost:3000/search"  method="post">

      <b>Search Through Email-id</b><br>

        <input type="email" id="emailIs" required="True" name="emailIs"><br>

      <button type="submit" required="True" value="submit" name="submit">Submit</button>

      <br>

    </form>

      <br>

      <br>

      <b>Sign-up/Update</b><br>

      <form class="" action="http://localhost:3000/" method="post">

        User Name:<br>

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

        Email ID:<br>

        <input type="email" id="emailId" required="True" name="emailId"><br>

        Phone No:<br>

        <input type="tel" id="phoneNo" required="True" name="phoneNo"><br>

        Password:<br>

        <input type="password" id="password" required="True" name="password"><br>

        <br>

        <button type="submit" required="True" value="submit" name="submit">Submit</button>

    </form>

  </body>

</html>

Index.js

var express = require("express");

var app     = express();

var path    = require("path");

var mysql = require('mysql');

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

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

app.use(bodyParser.json());

var con = mysql.createConnection({

     host : "db-intern.ciupl0p5utwk.us-east-1.rds.amazonaws.com",

     user : "dummyUser",

     password : "dummyUser01",

     database : "db\_intern"

});

app.get('/',function(req,res){

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

});

app.post('/',function(req,res){

  var userName=req.body.userName;

  var emailId=req.body.emailId;

  var phoneNo=req.body.phoneNo;

  var password=req.body.password;

var moment = require('moment');

var dateTime = moment(Date.now()).format('YYYY-MM-DD HH:mm:ss');

  res.write('You sent the name "' + req.body.userName+'".\n');

  res.write('You sent the email "' + req.body.emailId+'".\n');

  res.write('You sent the password "' + req.body.password+'".\n');

  con.connect(function(err) {

  if (err) throw err;

  var sql = "INSERT INTO userData (userName, emailId,phoneNo,password,dateTime) VALUES ('"+userName+"', '"+emailId+"','"+phoneNo+"', '"+password+"','"+dateTime+"')";

  con.query(sql, function (err, result) {

    if(err){  //we make sure theres an error (error obj)

          if(err.errno==1062){

  var sql = 'UPDATE userData SET userName ="' + req.body.userName+'",phoneNo="'+ req.body.phoneNo+'",password="' + req.body.password+'" WHERE emailId ="'+ req.body.emailId+'"';

  con.query(sql, function (err, result) {

  if (err) throw err;

  console.log(result.affectedRows + " record(s) updated");

  });

          res.end();

      }

          else{

              throw err;

          res.end();

        }

  }

    console.log("1 record inserted");

     res.end();

  });

  });

});

app.post('/search',function(req,res){

    var emailId=req.body.emailIs;

    console.log(emailId);

      res.write('You sent the email "' + req.body.emailIs+'".\n');

      con.connect(function(err) {

if (err) throw err;

con.query('SELECT \* FROM userData WHERE emailId ="'+ req.body.emailIs+'"', function (err, result) {

if (err) throw err;

console.log(result);

});

});

});

app.listen(3000);

console.log("Running at Port 3000");

output