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**Web Technologies DA2**

**App.js**

var express = require('express');

var path = require('path');

var favicon = require('serve-favicon');

var logger = require('morgan');

var cookieParser = require('cookie-parser');

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

var routes = require('./routes/index');

var app = express();

// view engine setup

app.set('views', path.join(\_\_dirname, 'views'));

app.set('view engine', 'ejs');

// uncomment after placing your favicon in /public

//app.use(favicon(path.join(\_\_dirname, 'public', 'favicon.ico')));

app.use(logger('dev'));

app.use(bodyParser.json());

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

app.use(cookieParser());

app.use(express.static(path.join(\_\_dirname, 'public')));

var ques1Get = require('./routes/ques1-get');

var ques1Post = require('./routes/ques1-post');

var submitForm = require('./routes/submitForm');

var ques2 = require('./routes/ques2');

app.use('/', routes);

app.use('/ques1-get', ques1Get);

app.use('/ques1-post', ques1Post);

app.use('/submitForm', submitForm);

app.use('/ques2', ques2);

// catch 404 and forward to error handler

app.use(function(req, res, next) {

var err = new Error('Not Found');

err.status = 404;

next(err);

});

// error handlers

// development error handler

// will print stacktrace

if (app.get('env') === 'development') {

app.use(function(err, req, res, next) {

res.status(err.status || 500);

res.render('error', {

message: err.message,

error: err

});

});

}

// production error handler

// no stacktraces leaked to user

app.use(function(err, req, res, next) {

res.status(err.status || 500);

res.render('error', {

message: err.message,

error: {}

});

});

module.exports = app;

**All Routers**

**/routes/index.js**

var express = require('express');

var router = express.Router();

/\* GET home page. \*/

router.get('/', function(req, res, next) {

res.render('index', { title: 'WebTech Da2' });

});

module.exports = router;

**/routes/ques1-get.js**

var express = require('express');

var router = express.Router();

/\* GET home page. \*/

router.get('/', function(req, res, next) {

res.render('form-get', {});

});

module.exports = router;

**/routes/ques1-post.js**

var express = require('express');

var router = express.Router();

/\* GET home page. \*/

router.get('/', function(req, res, next) {

res.render('form-post', {});

});

module.exports = router;

**/routes/ques2.js**

var express = require('express');

var router = express.Router();

/\* GET home page. \*/

router.get('/', function(req, res, next) {

if(req.cookies['username'] && req.cookies['last-login'])

{

var newDate = new Date();

var prevDate = req.cookies['last-login'];

res.cookie('last-login', ""+newDate, { maxAge: 90000000, httpOnly: true });

res.writeHead(200, {'Content-Type' : 'text/html'});

res.write('Your name is '+ req.cookies['username'] + '<br>Your last login time is '+

prevDate);

res.write('<br><br>It will be again set to '+newDate);

res.end();

}

else

{

res.render('getCookies', {});

}

});

router.post('/setCookie', function(req, res, next){

res.cookie('username', req.body.username, { maxAge: 90000000, httpOnly: true });

res.cookie('last-login', ""+Date(), { maxAge: 90000000, httpOnly: true });

res.writeHead(200, {'Content-Type' : 'text/html'});

res.write('cookieStored :)<br>');

res.end('<a href="/">Go to HomePage</a>');

});

module.exports = router;

**/routes/submitForm.js**

var express = require('express');

var router = express.Router();

router.get('/', function(req, res, next) {

res.render('formDisplayData', {

title : "Successfully Submitted Using GET Request",

name : req.query.name,

email : req.query.email,

phone : req.query.phone,

address : req.query.address,

zipcode : req.query.zipcode,

country : req.query.country,

cardType : req.query.cardType,

cardNumber : req.query.cardNumber,

cvv : req.query.cvv,

nameOnTheCard : req.query.nameOnTheCard

});

});

router.post('/', function(req, res, next) {

res.render('formDisplayData', {

title : "Successfully Submitted Using POST Request",

name : req.body.name,

email : req.body.email,

phone : req.body.phone,

address : req.body.address,

zipcode : req.body.zipcode,

country : req.body.country,

cardType : req.body.cardType,

cardNumber : req.body.cardNumber,

cvv : req.body.cvv,

nameOnTheCard : req.body.nameOnTheCard

});

});

module.exports = router;

**All Views**

**/views/form-get.ejs**

<!DOCTYPE html>

<html>

<head>

<title>Payment</title>

<style type="text/css">

html{

background-color: #7cb342;

font-family: georgia;

}

.layout{

position: absolute;

left: 200px;

top: 100px;

}

.set{

margin-top: 5px;

border: 1px solid white;

padding:20px;

border-radius: 10px;

width: 1000px;

background-color: #9ccc65;

}

.left{

position: absolute;

left: 400px;

width: 500px;

height: 25px;

border-radius: 5px;

}

.butt{

background-color: black;

color: white;

border-radius: 50px;

width: 100px;

height: 50px;

font-size: 20px;

margin-left: 500px;

}

.text{

position: absolute;

left: 400px;

width: 500px;

border-radius: 5px;

}

.area{

margin-top: 5px;

border: 1px solid white;

padding:20px;

border-radius: 10px;

width: 1000px;

background-color: #9ccc65;

height: 70px;

}

</style>

<script type="text/javascript" >

function validate(){

var nam=document.form.name.value;

var reg=/^[a-zA-Z]\*$/;

var cap=/^[A-Z]/;

var small=/.[a-z]/;

var num=/^\d\*$/;

var add=document.form.address.value;

var card=document.form.cardNumber.value;

var format=/^\d{4}(\-\d{4}){3}$/;

var orfor=/^\d{16}$/;

if(nam==''){

alert('Please fill your name');

return false;

}

arr=nam.split(' ');

if(arr.length!=2 || arr[1]==''){

alert('Please fill your firstname and lastname');

return false;

}

if(!arr[0].match(reg) || !arr[1].match(reg)){

alert('Name should have alphabets only');

return false;

}

if (!arr[0].match(cap)) {

alert('Firstname should start with capital letter');

return false;

}

if (!arr[1].match(cap)) {

alert('Lastname should start with capital letter');

return false;

}

if(!arr[0].match(small)){

alert('Firstname should be followed a small letter');

return false;

}

if(!arr[1].match(small)){

alert('Lastname should be followed a small letter');

return false;

}

if(add=='' | add==null){

alert('Please enter the address');

return false;

}

arr1=add.split(' ');

if(!arr1[0].match(num)){

alert('Address should start with number');

return false;

}

var arr2=[];

for (var i = 1; i < arr1.length; i++)

if(arr1[i].length>0)

arr2.push(arr1[i]);

if(!arr2.length){

alert('Please enter the Streetname');

return false;

}

var cou=0;

for (var i = 0; i < arr2.length; i++) {

if(!arr2[i].match(reg)){

alert('Streetname should have alphabets only');

return false;

}

if(!arr2[i].match(cap) && cou==0){

alert('Streetname should start with capital letter');

return false;

}

else if(arr2[i].match(cap) && cou==1){

cou=0;

}

else

cou=1;

}

if(card==''){

alert('Please enter the Card no.');

return false;

}

if (!card.match(format) && !card.match(orfor)) {

alert('Invalid card number');

return false;

}

return true;

}

</script>

</head>

<body>

<div class="layout">

Step 1: Your details

<form action="/submitForm" name="form" onsubmit="return validate()"

method="GET">

<div class="set">Name<input type="text" name="name" class='left'

placeholder=" First and last name" value=""></div>

<div class="set">Email<input type="text" name="email" class='left'

placeholder=" example@domain.com"></div>

<div class="set">Phone<input type="text" name="phone" class='left'

placeholder=" Eg: +447500000000"></div><br>

Step 2: Delivery address<br>

<div class="area">Address<textarea rows="5" class="text"

name="address"></textarea></div>

<div class="set">Post code<input type="text" class='left'

name="zipcode"></div>

<div class="set">Country<input type="text" class='left'

name="country"></div><br>

Step 3: Card details<br>

<div class="set">Card type<br><br>

<input type="radio" name="cardType"

value="visa">VISA&nbsp;&nbsp;&nbsp;&nbsp;<input type="radio" name="cardType"

value="amex">AmEx&nbsp;&nbsp;&nbsp;&nbsp;<input type="radio" name="cardType"

value="masterCard">Mastercard</div>

<div class="set">Cardnumber<input type="text" class='left'

name="cardNumber"></div>

<div class="set">Security code<input type="text" class='left'

name="cvv"></div>

<div class="set">Name on card<input type="text" class='left'

name="nameOnTheCard" placeholder=" Exact name as on the card"></div><br>

<input type="submit" class='butt' value="BUY IT!">

</form>

</div>

</body>

</html>

**/views/form-post.ejs**

<!DOCTYPE html>

<html>

<head>

<title>Payment</title>

<style type="text/css">

html{

background-color: #7cb342;

font-family: georgia;

}

.layout{

position: absolute;

left: 200px;

top: 100px;

}

.set{

margin-top: 5px;

border: 1px solid white;

padding:20px;

border-radius: 10px;

width: 1000px;

background-color: #9ccc65;

}

.left{

position: absolute;

left: 400px;

width: 500px;

height: 25px;

border-radius: 5px;

}

.butt{

background-color: black;

color: white;

border-radius: 50px;

width: 100px;

height: 50px;

font-size: 20px;

margin-left: 500px;

}

.text{

position: absolute;

left: 400px;

width: 500px;

border-radius: 5px;

}

.area{

margin-top: 5px;

border: 1px solid white;

padding:20px;

border-radius: 10px;

width: 1000px;

background-color: #9ccc65;

height: 70px;

}

</style>

<script type="text/javascript" >

function validate(){

var nam=document.form.name.value;

var reg=/^[a-zA-Z]\*$/;

var cap=/^[A-Z]/;

var small=/.[a-z]/;

var num=/^\d\*$/;

var add=document.form.address.value;

var card=document.form.cardNumber.value;

var format=/^\d{4}(\-\d{4}){3}$/;

var orfor=/^\d{16}$/;

if(nam==''){

alert('Please fill your name');

return false;

}

arr=nam.split(' ');

if(arr.length!=2 || arr[1]==''){

alert('Please fill your firstname and lastname');

return false;

}

if(!arr[0].match(reg) || !arr[1].match(reg)){

alert('Name should have alphabets only');

return false;

}

if (!arr[0].match(cap)) {

alert('Firstname should start with capital letter');

return false;

}

if (!arr[1].match(cap)) {

alert('Lastname should start with capital letter');

return false;

}

if(!arr[0].match(small)){

alert('Firstname should be followed a small letter');

return false;

}

if(!arr[1].match(small)){

alert('Lastname should be followed a small letter');

return false;

}

if(add=='' | add==null){

alert('Please enter the address');

return false;

}

arr1=add.split(' ');

if(!arr1[0].match(num)){

alert('Address should start with number');

return false;

}

var arr2=[];

for (var i = 1; i < arr1.length; i++)

if(arr1[i].length>0)

arr2.push(arr1[i]);

if(!arr2.length){

alert('Please enter the Streetname');

return false;

}

var cou=0;

for (var i = 0; i < arr2.length; i++) {

if(!arr2[i].match(reg)){

alert('Streetname should have alphabets only');

return false;

}

if(!arr2[i].match(cap) && cou==0){

alert('Streetname should start with capital letter');

return false;

}

else if(arr2[i].match(cap) && cou==1){

cou=0;

}

else

cou=1;

}

if(card==''){

alert('Please enter the Card no.');

return false;

}

if (!card.match(format) && !card.match(orfor)) {

alert('Invalid card number');

return false;

}

return true;

}

</script>

</head>

<body>

<div class="layout">

Step 1: Your details

<form action="/submitForm" name="form" onsubmit="return validate()"

method="POST">

<div class="set">Name<input type="text" name="name" class='left'

placeholder=" First and last name" value=""></div>

<div class="set">Email<input type="text" name="email" class='left'

placeholder=" example@domain.com"></div>

<div class="set">Phone<input type="text" name="phone" class='left'

placeholder=" Eg: +447500000000"></div><br>

Step 2: Delivery address<br>

<div class="area">Address<textarea rows="5" class="text"

name="address"></textarea></div>

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name="zipcode"></div>

<div class="set">Country<input type="text" class='left'

name="country"></div><br>

Step 3: Card details<br>

<div class="set">Card type<br><br>

<input type="radio" name="cardType"

value="visa">VISA&nbsp;&nbsp;&nbsp;&nbsp;<input type="radio" name="cardType"

value="amex">AmEx&nbsp;&nbsp;&nbsp;&nbsp;<input type="radio" name="cardType"

value="masterCard">Mastercard</div>

<div class="set">Cardnumber<input type="text" class='left'

name="cardNumber"></div>

<div class="set">Security code<input type="text" class='left'

name="cvv"></div>

<div class="set">Name on card<input type="text" class='left'

name="nameOnTheCard" placeholder=" Exact name as on the card"></div><br>

<input type="submit" class='butt' value="BUY IT!">

</form>

</div>

</body>

</html>

**/views/formDisplayData.ejs**

<!DOCTYPE html>

<html>

<head>

<link rel='stylesheet' href='/stylesheets/style.css' />

<style type="text/css">

tr, td, th

{

border: solid 1px black;

}

</style>

</head>

<body>

<h3><%= title %></h3>

<table>

<tr>

<th>Field Name</th>

<th>Value</th>

</tr>

<tr>

<td>Name</td>

<td><%= name %></td>

</tr>

<tr>

<td>Email</td>

<td><%= email %></td>

</tr>

<tr>

<td>Phone</td>

<td><%= phone %></td>

</tr>

<tr>

<td>Address</td>

<td><%= address %></td>

</tr>

<tr>

<td>PostalCode</td>

<td><%= zipcode %></td>

</tr>

<tr>

<td>Country</td>

<td><%= country %></td>

</tr>

<tr>

<td>Card Type</td>

<td><%= cardType %></td>

</tr>

<tr>

<td>Card Number</td>

<td><%= cardNumber %></td>

</tr>

<tr>

<td>Security Code</td>

<td><%= cvv %></td>

</tr>

<tr>

<td>Name on the card</td>

<td><%= nameOnTheCard %></td>

</tr>

</table>

</body>

</html>

**/views/getCookies.ejs**

<!DOCTYPE html>

<html>

<head>

<link rel='stylesheet' href='/stylesheets/style.css' />

<script type="text/javascript">

function validate()

{

if(document.getElementById('username').value=="")

{

alert('Type a username');

return false;

}

return true;

}

</script>

</head>

<body>

<h3>No cookies Stored</h3>

<form action="/ques2/setCookie" method="POST">

Username: <input type="text" name="username" id="username"><br>

<input type="submit" name="SUBMIT" onclick="return validate()">

</form>

</body>

</html>

**/views/index.ejs**

<!DOCTYPE html>

<html>

<head>

<title><%= title %></title>

<link rel='stylesheet' href='/stylesheets/style.css' />

</head>

<body>

<h1><%= title %></h1>

<a href="/ques1-get">Question 1 - Form Retrieval by GET</a><br><br>

<a href="/ques1-post">Question 1 - Form Retrieval by POST</a><br><br>

<a href="/ques2">Question 2</a>

</body>

</html>