**Index.html**

<!DOCTYPE html>

<meta name ="author" content="Wang Wu"/>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Home</title>

<link href="css/custom.css" rel ="stylesheet" type="text/css" />

</head>

<body>

<header>

</header>

<!-- header end -->

<section>

<div class="content">

<h2>Anime Art</h2>

<p> Anime: the classic Japanese style of cartoon and show. When you love anime, you think of swords and sorcery,

excitement and magic and plenty of adventure. While you can't always turn on your television or mobile device and enjoy anime every minute of the day,

you can display it on your walls so that you can appreciate this fantastic art form whenever you like.

</p>

</div>

<div class="products">

<div class="products\_list">

<img src="images/OrderSAO.jpg" alt="SAO"/> <br/>

<a href="productdetail.html">View Product </a>

</div>

<div class="products\_list">

<img src="images/OrderDeathNote.jpg" alt="DeathNote" /> <br/>

<a href="productdetail.html">View Product</a>

</div>

<div class="products\_list">

<img src="images/OrderAOT.jpg" alt="AOT" /> <br/>

<a href="productdetail.html">View Product</a>

</div>

</div>

</section> <!-- section end -->

<footer>

</footer>

<!-- footer end -->

</body>

</html>

**OrderDetail.html**

<!DOCTYPE html>

<html>

<head>

<title>Orderdetailpage</title>

<meta charset="UTF-8">

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

<link href="css/custom.css" rel="stylesheet" type="text/css" />

</head>

<body>

<header></header>

<section>

<div class="order-details">

<h2>Thank you for ordering with us.</h2>

<div class="detail">

<strong>Order No :</strong> 123456

</div>

<div class="detail">

<strong>Cost : </strong>60

</div>

<div class="detail">

<strong>Name : </strong>testing

</div>

<div class="detail">

<strong>Address : </strong>UK

</div>

</div>

</section>

<!-- section end -->

<footer></footer>

</body>

</html>

**Productdetail.html**

<!DOCTYPE html>

<html>

<head>

<title>Productdetail</title>

<meta charset="UTF-8">

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

<link href="css/custom.css" rel ="stylesheet" type="text/css" />

</head>

<body>

<header>

</header>

<!-- header end -->

<section>

<div class="row">

<div class="left">

<img src="images/SAO.jpg" alt="SAO"/>

</div>

<div class="center" >

<div class="cnlabel">

<label> <strong>Price:</strong> $20</label><br/>

<label> <strong>Size:</strong>(1190mm x 670mm)</label>

</div>

</div>

<div class="right">

<div id="errMsg" style="display: none">

Please fill up all the details below.

</div>

<form action="/action\_page.php">

<label for="fname">Name</label>

<input type="text" id="fname" name="firstname" placeholder="Name">

<label for="add">Address</label>

<textarea placeholder="Address"></textarea>

<label for="qty">Quantity</label>

<input type="text" id="qty" name="qty" placeholder="Qty">

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

</form>

</div>

</div>

</section>

<!-- section end-->

<footer></footer>

<!-- footer end-->

</body>

<script>

function validateForm() {

var name = document.forms["frmProduct"]["name"].value;

var address = document.forms["frmProduct"]["address"].value;

var qty = document.forms["frmProduct"]["qty"].value;

if (name == "" || address == "" || qty == "") {

document.getElementById('errMsg').style.display = "block";

return false;

}

}

function rmErr() {

document.getElementById("errMsg").style.display = "none";

}

</script>

</html>

**DB\_order-system.sql**

SET SQL\_MODE = "NO\_AUTO\_VALUE\_ON\_ZERO";

SET time\_zone = "+00:00";

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

/\*!40101 SET NAMES utf8mb4 \*/;

--

-- Database: `db\_order\_system`

--

-- --------------------------------------------------------

--

-- Table structure for table `orders`

--

CREATE TABLE `orders` (

`id` bigint(20) NOT NULL,

`orderno` varchar(250) NOT NULL,

`product\_id` int(10) NOT NULL,

`name` varchar(250) NOT NULL,

`address` varchar(250) NOT NULL,

`qty` int(10) NOT NULL,

`total` float(10,2) NOT NULL,

`created\_at` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------

--

-- Table structure for table `products`

--

CREATE TABLE `products` (

`id` int(10) NOT NULL,

`name` varchar(250) NOT NULL,

`price` float(10,2) NOT NULL,

`size` text NOT NULL,

`image` varchar(250) NOT NULL,

`details` text NOT NULL,

`created\_at` datetime NOT NULL DEFAULT CURRENT\_TIMESTAMP

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `products`

--

INSERT INTO `products` (`id`, `name`, `price`, `size`, `image`, `details`, `created\_at`) VALUES

(1, 'product a', 20.00, '1190mm \* 670mm', 'product1.jpg', '', '2017-11-03 10:32:10'),

(2, 'product b', 40.00, '1190mm \* 670mm', 'product2.jpg', '', '2017-11-03 10:32:10'),

(3, 'product c', 60.00, '1190mm \* 670mm', 'product3.jpg', '', '2017-11-03 10:32:10');

--

-- Indexes for dumped tables

--

--

-- Indexes for table `orders`

--

ALTER TABLE `orders`

ADD PRIMARY KEY (`id`);

--

-- Indexes for table `products`

--

ALTER TABLE `products`

ADD PRIMARY KEY (`id`);

--

-- AUTO\_INCREMENT for dumped tables

--

--

-- AUTO\_INCREMENT for table `orders`

--

ALTER TABLE `orders`

MODIFY `id` bigint(20) NOT NULL AUTO\_INCREMENT;

--

-- AUTO\_INCREMENT for table `products`

--

ALTER TABLE `products`

MODIFY `id` int(10) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=4;

/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

**Custom .css**

body {

width: 960px;

margin: auto;

padding: 0;

color: #000;

font-size: 18px;

line-height: 1.7em;

background-color: #ffffff;

}

header

{

min-height:50px;

border-bottom: 1px #ccc solid;

}

.content {

padding: 0 10px;

margin: 0 auto

}

.content h2

{

text-align: center;

text-decoration: underline;

padding: 5px;

}

.content p

{

text-align:left;

letter-spacing: 1px;

margin: 0 0 10px 0;

padding: 0;

color: #555555;

}

.products

{

margin:50px auto 50px auto;

text-align: center;

}

.products\_list {

margin: 0;

padding: 0;

display:inline-block;

}

.products\_list img

{

width:300px;

margin:auto auto 20px auto;;

}

.products\_list a

{

font-weight: 400;

color: #000000;

text-decoration: none;

}

.products\_list a:hover

{

color:#c31a15;

text-decoration: underline;

}

.row

{

display: table;

width: 100%; /\*Optional\*/

table-layout: fixed; /\*Optional\*/

border-spacing: 10px; /\*Optional\*/

margin-bottom: 40px;

}

.left

{

margin-top: 40px;

float:left;

width: 35%;

}

.left img{

width: 100%;

margin-top: 60px;

}

.right

{

margin-top: 40px;

float:right;

width: 35%;

}

.center

{

margin-top: 40px;

margin-left: 30px;

float:left;

width: 25%;

}

.center .cnlabel{

margin-top: 150px!important;

}

#errMsg{

color: red;

}

form {

border-radius: 5px;

background-color: #f2f2f2;

padding: 20px;

}

input[type=text], textarea {

width: 100%;

padding: 12px 20px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

input[type=submit] {

width: 100%;

background-color: #ea5a46;

color: white;

padding: 14px 20px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

}

input[type=submit]:hover {

background-color: #45a049;

}

.order-details

{

margin:40px 0px 40px 0px;

}

.order-details .detail{

margin-left:41%;

}

.order-details h2{

margin:30px auto 30px auto;

background-color: #ea5a46;

text-align: center;

}

footer

{

border-top:1px #ccc solid;

}

**Package.json with reference**

{

"name": "product",

"version": "1.0.0",

"main": "app.js",

"scripts": {

"start": "node app.js",

"nodemon": "nodemon app.js"

},

"keywords": [

"util",

"functional",

"server",

"client",

"browser"

],

"author": "",

"contributors": [],

"dependencies": {

"body-parser": "^1.18.2",

"ejs": "^2.5.7",

"express": "^4.16.2",

"mysql": "github:mysqljs/mysql",

"path": "^0.12.7"

},

"devDependencies": {

"nodemon": "^1.12.1"

}

}

**App.js**

const express = require('express');

var path = require('path');

var mysql = require('mysql');

//database connections

var con = mysql.createConnection({

host: "mysql-server-1.macs.hw.ac.uk",

user: "wcw3",

password: "abcwcw3354",

database: "db\_order\_system"

});

const app = express();

app.use(express.static('public'))

app.engine('html', require('ejs').renderFile);

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

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

app.use(bodyParser.json()); // support json encoded bodies

app.use(bodyParser.urlencoded({ extended: true })); // support encoded bodies

//route for index

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

con.query("SELECT \* FROM products", function (err, result, fields) {

if (err)

res.redirect('/');

console.log(result);

res.render('index', { data: result });

});

});

//route for product details

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

let id = req.params.id;

con.query("SELECT \* FROM products where id=" + id, function (err, result, fields) {

if (result.length > 0 && err == null) {

res.render('product-details', { data: result });

} else {

res.redirect('/');

}

});

});

//route for order details

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

let id = req.body.id;

let name = req.body.name;

let address = req.body.address;

let qty = req.body.qty;

let orderid = generateorderid();

if (id == "" || name == "" || address == "" || qty == "") {

res.redirect('/product/' + id);

} else {

con.query("SELECT \* FROM products where id=" + id, function (err, result, fields) {

let total = qty \* result[0].price;

var sql = "INSERT INTO orders (orderno,product\_id,name, address,qty,total) VALUES ('" + orderid + "','" + id + "','" + name + "','" + address + "','" + qty + "','" + total + "')";

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

if (err == null) {

res.redirect('/order-details/' + orderid);

}

else {

res.redirect('/');

}

});

});

}

});

//route for index

app.get('/order-details/:id', function (req, res) {

console.log("sdadsa");

let id = req.params.id;

con.query("SELECT o.orderno,o.name,o.address,o.total FROM orders as o INNER JOIN products as p ON o.product\_id=p.id where o.orderno='" + id + "'", function (err, result, fields) {

if (result.length > 0 && err == null) {

res.render('orderdetails', { order: result });

}

else {

res.redirect('/');

}

});

});

app.get('\*', function (req, res) {

res.redirect('/');

});

// generate random order number

function generateorderid() {

var text = "";

var possible = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

for (var i = 0; i < 10; i++)

text += possible.charAt(Math.floor(Math.random() \* possible.length));

return text;

}

//port

app.listen(3354, function () {

console.log("App is running on 3354");

})

**Index.html “ in app”**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Home</title>

<link href="/css/custom.css" rel="stylesheet" type="text/css" />

</head>

<body>

<header>

</header>

<section>

<div>

<div class="content">

<h2>Anime Art</h2>

<p> Anime: the classic Japanese style of cartoon and show. When you love anime, you think of swords and sorcery,

excitement and magic and plenty of adventure. While you can't always turn on your television or mobile device

and enjoy anime every minute of the day, you can display it on your walls so that you can appreciate this

fantastic art form whenever you like.

</p>

</div>

<div class="products">

<% for(var i = 0; i < data.length; ++i) {%>

<div class="products\_list">

<img src="/images/<%= data[i].image %>" alt="SAO" />

<br/>

<a href="product/<%= data[i].id %>">View Product </a>

</div>

<% } %>

</div>

</section></div>

<!-- section end -->

<footer>

</footer>

</body>

</html>

**Orderdetail.html “ in app”**

<!DOCTYPE html>

<html>

<head>

<title>Product Details</title>

<meta charset="UTF-8">

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

<link href="/css/custom.css" rel="stylesheet" type="text/css" />

</head>

<body>

<header></header>

<section>

<div class="order-details">

<h2>Thank you for ordering with us.</h2>

<div class="detail">

<strong>Order No : </strong>

<%= order[0].orderno %>

</div>

<div class="detail">

<strong>Cost : </strong>$

<%=order[0].total %>

</div>

<div class="detail">

<strong>Name : </strong>

<%= order[0].name %>

</div>

<div class="detail">

<strong>Address : </strong>

<%= order[0].address %>

</div>

</div>

</section>

<!-- section end -->

<footer></footer>

</body>

</html>

**Productdetail.html “ in app”**

<!DOCTYPE html>

<html>

<head>

<title>Product Details</title>

<meta charset="UTF-8">

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

<link href="/css/custom.css" rel="stylesheet" type="text/css" />

</head>

<body>

<header></header>

<section>

<div class="row">

<div class="left">

<img src="/images/<%= data[0].image %>" alt="SAO" />

</div>

<div class="center">

<div class="cnlabel">

<label><strong> Price:</strong> $<%= data[0].price %></label>

<br/>

<label><strong> Size:</strong> (

<%= data[0].size %>)</label>

</div>

</div>

<div class="right">

<div id="errMsg" style="display: none">

Please fill up all the details below.

</div>

<form action="/orders" id="frmProduct" name="frmProduct" method="post" onsubmit="return validateForm()">

<label for="name">Name\*</label>

<input type="text" id="name" onfocus="return rmErr()" name="name" placeholder="Name">

<input type="hidden" id="id" name="id" value=" <%= data[0].id %>">

<label for="address">Address\*</label>

<textarea placeholder="Address" onfocus="return rmErr()" id="address" name="address"></textarea>

<label for="qty">Quantity\*</label>

<input type="text" id="qty" name="qty" placeholder="Quantity" onfocus="return rmErr()" onkeypress='return event.charCode >= 48 && event.charCode <= 57'>

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

</form>

</div>

</div>

</section>

<!-- section end -->

<footer>

</footer>

</body>

<script>

function validateForm() {

var name = document.forms["frmProduct"]["name"].value;

var address = document.forms["frmProduct"]["address"].value;

var qty = document.forms["frmProduct"]["qty"].value;

if (name == "" || address == "" || qty == "") {

document.getElementById('errMsg').style.display = "block";

return false;

}

}

function rmErr() {

document.getElementById("errMsg").style.display = "none";

}

</script>

</html>

**Custom.css “in app”**

/\*css\*/

body {

width: 960px;

margin: auto;

padding: 0;

color: #000;

font-size: 18px;

line-height: 1.7em;

background-color: #ffffff;

}

/\*body css end \*/

header

{

min-height:50px;

border-bottom: 1px #ccc solid;

}

/\* header css ends\*/

.content {

padding: 0 10px;

margin: 0 auto

}

.content h2

{

text-align: center;

text-decoration: underline;

padding: 5px;

}

.content p

{

text-align:left;

letter-spacing: 1px;

margin: 0 0 10px 0;

padding: 0;

color: #555555;

}

/\* content css ends indexpage\*/

.products

{

margin:50px auto 50px auto;

text-align: center;

}

.products\_list {

margin: 0;

padding: 0;

display:inline-block;

}

.products\_list img

{

width:300px;

margin:auto auto 20px auto;;

}

.products\_list a

{

font-weight: 400;

color: #000000;

text-decoration: none;

}

.products\_list a:hover

{

color:#c31a15;

text-decoration: underline;

}

/\* products css ends\*/

/\* productdetail css end\*/

.productfrom{

display: inline-block;

width: 30%;

margin: 80px 0px 50px 0px;

}

form {

border-radius: 5px;

background-color: #f2f2f2;

padding: 20px;

}

input[type=text], textarea {

width: 100%;

padding: 12px 20px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

input[type=submit] {

width: 100%;

background-color: #ea5a46;

color: white;

padding: 14px 20px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

}

input[type=submit]:hover {

background-color: #45a049;

}

/\* form css end\*/

.row

{

display: table;

width: 100%; /\*Optional\*/

table-layout: fixed; /\*Optional\*/

border-spacing: 10px; /\*Optional\*/

margin-bottom: 40px;

}

.left

{

margin-top: 40px;

float:left;

width: 35%;

}

.left img{

width: 100%;

margin-top: 60px;

}

.right

{

margin-top: 40px;

float:right;

width: 35%;

}

.center

{

margin-top: 40px;

margin-left: 30px;

float:left;

width: 25%;

}

.center .cnlabel{

margin-top: 150px!important;

}

#errMsg{

color: red;

}.order-details

{

margin:40px 0px 40px 0px;

}

.order-details .detail{

margin-left:41%;

}

.order-details h2{

margin:30px auto 30px auto;

background-color: #ea5a46;

text-align: center;

}

footer

{

border-top:1px #ccc solid;

}