Writing JUnit Test Case

1.Using the last project , we already have added the addProducts method and a getProducts and getProduct(id) method , now we have to add the rest i.e update and delete.

2.Goto IProductDAO file , add the following :

public boolean updateProduct(Product p);

public boolean deleteProduct(int id);

3.Goto ProductDAOImpl file , add the following :

public boolean updateProduct(Product p) {

try {

sessionFactory.getCurrentSession().update(p);

return true;

} catch (Exception ex) {

ex.printStackTrace();

return false;

}

}

public boolean deleteProduct(int id) {

try {

sessionFactory.getCurrentSession().delete(getProduct(id));

return true;

} catch (Exception ex) {

ex.printStackTrace();

return false;

}

}

4.Create controller component insdie the FrontEndProductController , as follows :

@RequestMapping(value="/productData.do",method=RequestMethod.POST)

public String doActions(@ModelAttribute Product product,BindingResult result , @RequestParam String action,Model model)

{

Product productResult=new Product();

switch(action.toLowerCase())

{

case "add":

productDAO.addProducts(product);

productResult=product;

break;

case "edit":

productDAO.updateProduct(product);

productResult=product;

break;

case "delete":

productDAO.deleteProduct(product.getProductId());

productResult=product;

break;

case "search":

Product searchedProduct= productDAO.getProduct(product.getProductId());

productResult=searchedProduct!=null?searchedProduct:new Product();

break;

}

model.addAttribute("product",productResult);

model.addAttribute("productList",productDAO.getProducts());

return "redirect:productCRUD"; }

5.Create the view component-JSP

a.Inside the views folder of the frontendproject , add a new folder , with the name of admin.

b.Inside the folder , add a jsp , productCRUD.jsp.

c.Inside it , add the dependencies , the used taglibs:

<%@taglib prefix="spring" uri="http://www.springframework.org/tags"%>

<%@taglib prefix="form" uri="http://www.springframework.org/tags/form"%>

[%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%](mailto:%25@taglib%20prefix=%22c%22%20uri=%22http://java.sun.com/jsp/jstl/core%22%25)

d.Inside the same file , after taglibs , add the ui code :

<div class="container">

<div class="row">

<div class="col-md-3">

</div>

<div class="col-md-6">

<form:form action="productData.do" method="POST" commandName="product" modelAttribute="product">

<table border="1" align="center">

<caption></caption>

<tr>

<th>Product Name</th>

<td><form:input path="productName"/></td>

</tr>

<tr>

<th>Product Category</th>

<td><form:input path="productCategory"/></td>

</tr>

<tr>

<th>Product Description</th>

<td><form:input path="productDescription"/></td>

</tr>

<tr>

<th>Product Keyword</th>

<td><form:input path="productKeyword"/></td>

</tr>

<tr>

<th>Product Image</th>

<td><form:input path="productImage"/></td>

</tr>

<tr>

<th>Product Price</th>

<td><form:input path="productPrice"/></td>

</tr>

<tr>

<th>Product Quantity</th>

<td><form:input path="productQuantity"/></td>

</tr>

<tr>

<th colspan="2" align="center">

<input type="submit" name="action" value="Add"/>

</th>

</tr>

</table>

</div>

<div class="col-md-3"></div>

</div>

<br>

<br/>

<div class="row">

<div class="table-responsive col-md-12">

<table id="myDataTable1" class="table table-striped">

<thead>

<tr>

<th>Product ID</th>

<th>Product Image</th>

<th>Product Name</th>

<th>Product Category</th>

<th>Keywords</th>

<th>Price</th>

<th>Quantity</th>

<th>Edit Product</th>

<th>Delete Product</th>

</tr>

</thead>

</table>

</div>

</form:form>

</div>

</div>

e.In the myapp.js ,add the case for the jsp :

case 'ProductCRUD':

$('#productcrud').addClass('active');

break;

f.In the assets/js/datatavlescript.js , add the following inside the ready method :

$('#myDataTable1').DataTable( {

"lengthMenu": [[1, 3, 5, 7, -1], [1, 3, 5, 7, "All"]],

ajax: {

url: '/ZenSportsFrontEnd/product',

dataSrc: ''

},

columns: [

{ data: 'productId' },

{ data: 'productName' },

{ data: null,

mRender: function ( data, type, row ) {

return '<img src="/ZenSportsFrontEnd/resources/images/'+ row.productImage +'" height="70" width="70">'; }

},

{ data: 'productCategory' },

{ data: 'productKeyword' },

{ data: 'productPrice' },

{ data: 'productQuantity' },

{data: null,

mRender: function ( data, type, row ) {

return '<a class="btn btn-primary" href="#" height="50px" width="150px">Update Item</a>';}

},

{data: null,

mRender: function ( data, type, row ) {

return '<a class="btn btn-primary" href="#" height="50px" width="150px">Delete Item</a>';}

}

]

} );