Webflow for registration

1.Inside the pom.xml of backendproject add dependency.

a.Add the property inside properties:

<springwebflow.version>2.4.2.RELEASE</springwebflow.version>

b.Inside the dependencies , add :

<!-- Spring Web Flow dependencies -->

<dependency>

<groupId>org.springframework.webflow</groupId>

<artifactId>spring-webflow</artifactId>

<version>${springwebflow.version}</version>

</dependency>

2.Configure the web.xml file.

a.Update the url pattern for the servlet mapping of the dispatcher-server to :

<url-pattern>\*.obj</url-pattern>

3.Configure the dispatcher-servlet.xml of fronrendproject.

a.Add the following inside the beans parent tag:

xmlns:webflow=<http://www.springframework.org/schema/webflow-config>

b.Add the following inside the schemaLocation :

http://www.springframework.org/schema/webflow-config

<http://www.springframework.org/schema/webflow-config/spring-webflow-config.xsd>">

c.Add the following configurations and bean inside the parent beans tag as content:

<!-- WebFlow Configuration -->

<webflow:flow-executor id="flowExecutor" />

<!-- is responsible for finding the flow file -->

<webflow:flow-registry id="flowRegistry"

flow-builder-services="flowBuilderServices" base-path="/WEB-INF">

<!-- here the id is mapped to invoke this flow -->

<webflow:flow-location id="memberShip" path="/memberShipFlow.xml" />

</webflow:flow-registry>

<bean id="validator"

class="org.springframework.validation.beanvalidation.LocalValidatorFactoryBean" />

<!-- Reference the above bean below -->

<webflow:flow-builder-services id="flowBuilderServices"

view-factory-creator="viewFactoryCreator" validator="validator" />

<!-- Webflow beans -->

<bean id="viewFactoryCreator"

class="org.springframework.webflow.mvc.builder.MvcViewFactoryCreator">

<property name="viewResolvers">

<list>

<ref bean="viewResolver" />

</list>

</property>

</bean>

<bean class="org.springframework.webflow.mvc.servlet.FlowHandlerAdapter">

<property name="flowExecutor" ref="flowExecutor" />

</bean>

<bean class="org.springframework.webflow.mvc.servlet.FlowHandlerMapping">

<property name="flowRegistry" ref="flowRegistry" />

<property name="order" value="0" />

</bean>

3.Configure the webflow xml for application.

a.Create an xml file insdie WEB-INF , with the name memberShipFlow.xml.

b.Inside the file ,add the following :

<?xml version="1.0" encoding="UTF-8"?>

<flow xmlns="http://www.springframework.org/schema/webflow"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://www.springframework.org/schema/webflow

http://www.springframework.org/schema/webflow/spring-webflow.xsd">

<!-- Executed when webFlow is triggered -->

<on-start>

<evaluate expression="regsiterHandler.initializeModel()"

result="flowScope.registerModel" />

</on-start>

<view-state id="start" view="registration/register" model="flowScope.registerModel">

<transition on="submit" to="validateUser" />

</view-state>

<!-- if not specified the first view state is the starting state -->

<action-state id="validateUser">

<evaluate expression="registerHandler.validateUserDetails(registerModel.user)"></evaluate>

<transition on="success" to="billing" />

<transition on="failure" to="start" />

</action-state>

<view-state id="billing" view="registration/billing" model="flowScope.registerModel">

<transition on="submit" to="validateAddress" />

</view-state>

<action-state id="validateAddress">

<evaluate expression="registerHhandler.validateAddressDetails(registerModel.user)"></evaluate>

<transition on="success" to="confirm" />

<transition on="failure" to="billing" />

</action-state>

<view-state id="confirm" view="registration/preRegister" model="flowScope.registerModel">

<transition on="edit" to="start" />

<transition on="submit" to="welcome" />

</view-state>

<end-state id="welcome" view="registration/welcome" />

<end-state id="toHome" view="externalRedirect:contextRelative:home.jsp" />

<end-state id="toException" view="externalRedirect:contextRelative:exception.jsp" />

<!-- these events are available in every state -->

<global-transitions>

<transition on="home" to="toHome" />

<transition on="error" to="toException" />

</global-transitions>

</flow>

4.Create a folder registration inside the view folder of the frontendproject.

5.Inside it create the following files :

a.register.jsp

<%@ page contentType="text/html;charset=UTF-8" language="java"

pageEncoding="UTF-8" isELIgnored="false"%>

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

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

<html>

<head>

<spring:url value="/resources/images" var="images" />

<spring:url value="/resources/js" var="js" />

<spring:url value="/resources/css" var="css" />

<!-- Stylesheets -->

<link rel="stylesheet" href="${css}/bootstrap.min.css" />

<link rel="stylesheet" href="${css}/bootstrap-theme.min.css" />

<link rel="stylesheet" href="${css}/style.css" />

<!-- Scripts -->

<script src="${js}/jquery.js"></script>

<script src="${js}/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="header">

<%@include file="navbar.jsp"%>

</div>

<div class="content">

<div class="row">

<div class="col-md-2"></div>

<div class="form-container col-md-8 jumbotron">

<form:form class="form-horizontal" action="userData.do"

method="POST" commandName="user" modelAttribute="user">

<h3>Registration Form</h3>

<h1>Register</h1>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userName">UserName</label>

<form:input path="userName" type="text" class="form-control"

placeholder="flint" />

<div class="has-error">

<form:errors style="color:red" path="userName"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userFullName">UserFullName</label>

<form:input path="userFullName" type="text" class="form-control"

placeholder="flint salvatore" />

<div class="has-error">

<form:errors style="color:red" path="userFullName"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userRole">Role</label>

<form:select path="userRole" type="text" class="form-control">

<form:option value="Customer" label="User" selected="true" />

<form:option value="Supplier" label="Supplier" />

</form:select>

<div class="has-error">

<form:errors style="color:red" path="userRole"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userPassword">Password</label>

<form:input path="userPassword" type="password"

class="form-control" placeholder="pass@123" />

<div class="has-error">

<form:errors style="color:red" path="userPassword"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userConPassword">Confirm

Password</label>

<form:input path="userConPassword" type="password"

class="form-control" placeholder="pass@123" />

<div class="has-error">

<form:errors style="color:red" path="userConPassword"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userEmail">Email</label>

<form:input path="userEmail" type="email"

placeholder="abc@xyz.com" class="form-control" />

<div class="has-error">

<form:errors style="color:red" path="userEmail"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userMobile">Mobile

Number</label>

<form:input path="userMobile" type="text"

placeholder="+919945678902" class="form-control" maxlength="13"

minlength="13" />

<div class="has-error">

<form:errors style="color:red" path="userMobile"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userSecurityQ">Security

Question</label>

<form:select path="userSecurityQ" class="form-control">

<form:option value="Name of the first pet"

label="Name of the first pet" selected="true" />

<form:option value="Name of the favourite book"

label="Name of the favourite book" />

<form:option value="Name of the favourite sport"

label="Name of the favourite sport" />

</form:select>

<div class="has-error">

<form:errors style="color:red" path="userSecurityQ"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="userSecurityA">Security

Answer</label>

<form:input path="userSecurityA" type="text" placeholder="demo"

class="form-control" />

<div class="has-error">

<form:errors style="color:red" path="userSecurityA"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div>

<div class="form-actions floatRight">

<input type="submit" name="\_eventId\_submit"

class="btn btn-primary btn-sm" value="Register" />

</th>

</div>

</div>

</div>

</form:form>

</div>

<div class="col-md-2"></div>

</div>

</div>

<div class="footer">

<%@include file="../shared/footer.jsp"%>

</div>

</div>

</body>

</html>

b.billing.jsp

<%@ page contentType="text/html;charset=UTF-8" language="java"

pageEncoding="UTF-8" isELIgnored="false"%>

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

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

<html>

<head>

<spring:url value="/resources/images" var="images" />

<spring:url value="/resources/js" var="js" />

<spring:url value="/resources/css" var="css" />

<!-- Stylesheets -->

<link rel="stylesheet" href="${css}/bootstrap.min.css" />

<link rel="stylesheet" href="${css}/bootstrap-theme.min.css"/>

<link rel="stylesheet" href="${css}/style.css" />

<!-- Scripts -->

<script src="${js}/jquery.js"></script>

<script src="${js}/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="header">

<%@include file="navbar.jsp"%>

</div>

<div class="content">

<div class="row">

<div class="col-md-2"></div>

<div class="form-container col-md-8 jumbotron">

<form:form class="form-horizontal" action="" method="POST"

commandName="user" modelAttribute="user">

<h3>Billing Address</h3>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="addAddress1">Address1</label>

<form:input path="addAddress1" type="text" class="form-control"

placeholder="56-R" />

<div class="has-error">

<form:errors style="color:red" path="addAddress1"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="addAddress2">Address2</label>

<form:input path="addAddress2" type="text" class="form-control"

placeholder="Vasant Vihar" />

<div class="has-error">

<form:errors style="color:red" path="addAddress2"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="addCity">City</label>

<form:input path="addCity" type="text" class="form-control"

placeholder="Delhi" />

<div class="has-error">

<form:errors style="color:red" path="addCity"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="addZipCode">Zip

Code</label>

<form:input path="addZipCode" type="text" class="form-control"

placeholder="110057" />

<div class="has-error">

<form:errors style="color:red" path="addZipCode"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<label class="col-md-3 control-lable" for="addState">State</label>

<form:input path="addState" type="text" class="form-control"

placeholder="Delhi" />

<div class="has-error">

<form:errors style="color:red" path="addState"

class="help-inline" />

</div>

</div>

</div>

<div class="row">

<div class="form-group">

<form:checkbox path="shipping" class="form-control" />

Shipping address is same as Billing address

</div>

</div>

</form:form>

</div>

<div class="col-md-2"></div>

</div>

</div>

<div class="footer">

<%@include file="../shared/footer.jsp"%>

</div>

</div>

</body>

</html>

c.peRegister.jsp

<%@ page contentType="text/html;charset=UTF-8" language="java"

pageEncoding="UTF-8" isELIgnored="false"%>

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

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

<html>

<head>

<spring:url value="/resources/images" var="images" />

<spring:url value="/resources/js" var="js" />

<spring:url value="/resources/css" var="css" />

<!-- Stylesheets -->

<link rel="stylesheet" href="${css}/bootstrap.min.css" />

<link rel="stylesheet" href="${css}/bootstrap-theme.min.css" />

<link rel="stylesheet" href="${css}/style.css" />

<!-- Scripts -->

<script src="${js}/jquery.js"></script>

<script src="${js}/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="header">

<%@include file="navbar.jsp"%>

</div>

<div class="content">

<h2>Do you want to continue ?</h2>

<a href="welcome" class="btn btn-success btn-lg">Continue</a>

<a href="register" class="btn btn-success btn-lg">Back</a>

</div>

</div>

<div class="footer">

<%@include file="../shared/footer.jsp"%>

</div>

</body>

</html>

d.welcome.jsp

<%@ page contentType="text/html;charset=UTF-8" language="java"

pageEncoding="UTF-8" isELIgnored="false"%>

<%@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"%>

<c:set var="contextRoot" value="${pageContext.request.contextPath}" />

<html>

<head>

<spring:url value="/resources/images" var="images" />

<spring:url value="/resources/js" var="js" />

<spring:url value="/resources/css" var="css" />

<!-- Stylesheets -->

<link rel="stylesheet" href="${css}/bootstrap.min.css" />

<link rel="stylesheet" href="${css}/bootstrap-theme.min.css" />

<link rel="stylesheet" href="${css}/style.css" />

<!-- Scripts -->

<script src="${js}/jquery.js"></script>

<script src="${js}/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="header">

<%@include file="navbar.jsp"%>

</div>

<div class="content">

<a href="${contextRoot}/login"><span class="glyphicon glyphicon-user"></span> Login</a>

<h2>Welcome , you have successfully registered .</h2>

</div>

</div>

<div class="footer">

<%@include file="../shared/footer.jsp"%>

</div>

</body>

</html>

e.navbar.jsp

<nav class="navbar navbar-default" style="font-size: 8pt">

<div class="collapse navbar-collapse" id="menuBar">

<!-- Navbar-fixed-top -->

<ul class="nav navbar-nav" style="font-size: 8pt">

<li id="home"><a href="${contextRoot}/index"><img

src="${images}/zensports.png" style="height: 20pt; width: 100pt" />HOME</a></li>

</ul>

</div>

</nav>

6.Address model creation.

a.Inside the model folder of the backendproject , add a class ,Address.

b.Inside the class , add:

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private int addressId;

@Size(min=1, max=30,message="address1 should be between 1 to 30 characters long")

private String addAddress1;

@Size(min=1, max=30,message="address2 should be between 1 to 30 characters long")

private String addAddress2;

@Size(min=1, max=30,message="city should be between 1 to 30 characters long")

private String addCity;

@Size(min=1, max=30,message="state should be between 1 to 30 characters long")

private String addState;

@Size(min=1, max=6,message="zip code should be between 1 to 6 characters long")

private String addZipCode;

@Size(min=1, max=30,message="country should be between 1 to 30 characters long")

private String addCountry;

private boolean shipping;

public Address() {

super();

// TODO Auto-generated constructor stub

}

public Address(int addressId, String addAddress1, String addAddress2, String addCity, String addState,

String addZipCode, String addCountry) {

super();

this.addressId = addressId;

this.addAddress1 = addAddress1;

this.addAddress2 = addAddress2;

this.addCity = addCity;

this.addState = addState;

this.addZipCode = addZipCode;

this.addCountry = addCountry;

this.shipping = false;

}

public int getAddressId() {

return addressId;

}

public void setAddressId(int addressId) {

this.addressId = addressId;

}

public String getAddAddress1() {

return addAddress1;

}

public void setAddAddress1(String addAddress1) {

this.addAddress1 = addAddress1;

}

public String getAddAddress2() {

return addAddress2;

}

public void setAddAddress2(String addAddress2) {

this.addAddress2 = addAddress2;

}

public String getAddCity() {

return addCity;

}

public void setAddCity(String addCity) {

this.addCity = addCity;

}

public String getAddState() {

return addState;

}

public void setAddState(String addState) {

this.addState = addState;

}

public String getAddZipCode() {

return addZipCode;

}

public void setAddZipCode(String addZipCode) {

this.addZipCode = addZipCode;

}

public String getAddCountry() {

return addCountry;

}

public void setAddCountry(String addCountry) {

this.addCountry = addCountry;

}

public boolean isShipping() {

return shipping;

}

public void setShipping(boolean shipping) {

this.shipping = shipping;

}

7.Inside the model folder in backendproject , add class , RegisterModel.java.Add:

User user;

Address shipping;

Address billing;

public RegisterModel(User user, Address shipping, Address billing) {

super();

this.user = user;

this.shipping = shipping;

this.billing = billing;

}

public User getUser() {

return user;

}

public void setUser(User user) {

this.user = user;

}

public Address getShipping() {

return shipping;

}

public void setShipping(Address shipping) {

this.shipping = shipping;

}

public Address getBilling() {

return billing;

}

public void setBilling(Address billing) {

this.billing = billing;

}

public RegisterModel() {

super();

// TODO Auto-generated constructor stub

}

8.Inside the controller folder of the frontendproject ,add a class,RegisterHandler.Add: