

JAVA

---Bookcontroller---

```
package com.controller;
import java.util.HashMap;
import java.util.Map;

import javax.validation.Valid;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.validation.BindingResult;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;

import com.model.BookRestaurant;
import com.service.BookService;

//use appropriate annotation to configure BookController as
Controller
@Controller
public class BookController {
    @Autowired
    BookService service;
    @ModelAttribute("hallList")
    public Map<String, String> populateHallType(){
        Map<String, String> serviceMap = new HashMap<String,
String>();

        serviceMap.put("AC", "AC");
        serviceMap.put("NonAC", "NonAC");

        return serviceMap;
    }

    @GetMapping("/showPage")
    public String home(@ModelAttribute("book") BookRestaurant
book) {
        return "showpage";
    }

    //invoke the service class - calculateTotalCost method.
    @PostMapping("/billDesk")
    public String calculateTotalCost(@Valid
@ModelAttribute("book") BookRestaurant book,
```

```

        BindingResult result, ModelMap model) {
    if(result.hasErrors()) {
        return "showpage";
    }
    double totalCost = service.calculateTotalCost(book);
    model.put("totalCost", totalCost);
    return "billdesk";
}
}

```

---InternationalizationConfig---

```

package com.controller;

import java.util.Locale;

import org.springframework.context.MessageSource;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.context.support.ReloadableResourceBundleMessageSource;
import org.springframework.validation.beanvalidation.LocalValidatorFactoryBean;
import org.springframework.web.servlet.LocaleResolver;
import org.springframework.web.servlet.config.annotation.InterceptorRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;
import org.springframework.web.servlet.i18n.LocaleChangeInterceptor;
import org.springframework.web.servlet.i18n.SessionLocaleResolver;

@Configuration
public class InternationalizationConfig implements WebMvcConfigurer {

    //Create a SessionLocaleResolver object and set the default locale to English return the SessionLocaleResolver object
    @Bean
    public LocaleResolver localeResolver() {
        SessionLocaleResolver localeResolver = new SessionLocaleResolver();
    }
}

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        localeResolver.setDefaultLocale(Locale.US);
        return localeResolver;
    }

    // Create LocaleChangeInterceptor object and set the parameter name
as language
    // and return the localeChangeInterceptor
    @Bean
    public LocaleChangeInterceptor localeChangeInterceptor() {
        LocaleChangeInterceptor interceptor = new
LocaleChangeInterceptor();
        interceptor.setParamName("language");
        return interceptor;
    }

    @Bean
    public LocalValidatorFactoryBean getValidator() {
        LocalValidatorFactoryBean bean = new
LocalValidatorFactoryBean();
        bean.setValidationMessageSource(messageSource());
        return bean;
    }

    @Bean
    public MessageSource messageSource() {
        ReloadableResourceBundleMessageSource messageSource = new
ReloadableResourceBundleMessageSource();

        messageSource.setBasename("classpath:messages");
        messageSource.setDefaultEncoding("UTF-8");
        return messageSource;
    }

    // register the LocaleChangeInterceptor
    @Override
    public void addInterceptors(InterceptorRegistry registry) {

        registry.addInterceptor(localeChangeInterceptor());
    }
}

```

---Bookrestaurant---

```

package com.model;

import javax.validation.constraints.NotBlank;
import javax.validation.constraints.Positive;

```

```
import org.springframework.stereotype.Component;

//pojo class with required attributes, getters and setters

public class BookRestaurant {

    @NotBlank(message="{error.customerName.blank}")
    private String customerName;
    @NotBlank(message="{error.contactNumber.blank}")
    private String contactNumber;
    private String hallType;
    @Positive(message="{error.adultCount.forVeg.positive}")
    private int adultVegCount;
    @Positive(message="{error.kidsCount.forVeg.positive}")
    private int kidsVegCount;
    @Positive(message="{error.adultCount.forNonVeg.positive}")
    private int adultNonVegCount;
    @Positive(message="{error.kidsCount.forNonVeg.positive}")
    private int kidsNonVegCount;

    public String getCustomerName() {
        return customerName;
    }
    public void setCustomerName(String customerName) {
        this.customerName = customerName;
    }
    public String getContactNumber() {
        return contactNumber;
    }
    public void setContactNumber(String contactNumber) {
        this.contactNumber = contactNumber;
    }
    public String getHallType() {
        return hallType;
    }
    public void setHallType(String hallType) {
        this.hallType = hallType;
    }
    public int getAdultVegCount() {
        return adultVegCount;
    }
    public void setAdultVegCount(int adultVegCount) {
        this.adultVegCount = adultVegCount;
    }
    public int getKidsVegCount() {
        return kidsVegCount;
    }
    public void setKidsVegCount(int kidsVegCount) {
```

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        this.kidsVegCount = kidsVegCount;
    }
    public int getAdultNonVegCount() {
        return adultNonVegCount;
    }
    public void setAdultNonVegCount(int adultNonVegCount) {
        this.adultNonVegCount = adultNonVegCount;
    }
    public int getKidsNonVegCount() {
        return kidsNonVegCount;
    }
    public void setKidsNonVegCount(int kidsNonVegCount) {
        this.kidsNonVegCount = kidsNonVegCount;
    }
}

```

---BookServices---

```

package com.service;

import org.springframework.stereotype.Service;
import com.model.BookRestaurant;

//use appropriate annotation to configure BookService as a Service
@Service
public class BookService {

    // calculate the totalCost and return the cost
    public double calculateTotalCost(BookRestaurant book) {

        double cost = 0.0;

        cost = (book.getAdultVegCount() * 599) +
        (book.getAdultNonVegCount() * 699) + (book.getKidsVegCount() * 249)
            + (book.getKidsNonVegCount() * 349);
        if (book.getHallType().equalsIgnoreCase("AC")) {

            cost = cost+500;
        }
        return cost;
    }
}

```

WEB APP

---billdesk---

```
<%@page isELIgnored="false" %>
<html>
<body bgcolor="lavender">

<h2>Thanks for Booking!!! Total Amount to be
paid is Rs.${totalCost} </h2>

</body>
</html>
```

---ShowPage---

```
<%@ taglib prefix="spring" uri="http://www.springframework.org/tags"%>
<%@ taglib prefix="sf" uri="http://www.springframework.org/tags/form"%>
<%@ taglib uri="http://www.springframework.org/tags/form"
prefix="form"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" isELIgnored="false"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<style>
.center{
margin-left:auto;
margin-right:auto;
}
</style>
```

```

</head>
<body style="background-color: lavender">
    <h1>
        <center>Delicious Buffet Restaurant</center>
    </h1>

    <!-- Do not change the below line -->
    <a href="/showPage?language=en">English</a>|
    <a href="/showPage?language=de">German</a>|
    <a href="/showPage?language=fr">French</a>
</align>
<!-- Design the page as per the requirements-->

    <form:form modelAttribute="book" method="post" action="/billDesk">
        <table class="center">

            <tr>
                <td id="id1"><spring:message code="label.customerName"
/></td>
                <td><form:input path="customerName" id="customerName"
                    name="customerName" /></td>
                <td><form:errors
path="customerName"></form:errors></td>

            </tr>
            <tr>
                <td id="id2"><spring:message code="label.contactNumber"
/></td>
                <td><form:input path="contactNumber" id="contactNumber"
name="contactNumber" /></td>
                <td><form:errors
path="contactNumber"></form:errors></td>

            </tr>
            <tr>
                <td id="id3"><spring:message code="label.hallType"
/></td>
                <td><form:select path="hallType" id="hallType"
name="hallType"
                    items="${hallList}" /></td>

            </tr>
            <tr>
                <td id="id4"><spring:message code="label.adultVegCount"
/></td>
                <td><form:input path="adultVegCount"
                    name="adultVegCount" id="adultVegCount" /></td>

```

```

                <td><form:errors
path="adultVegCount"></form:errors></td>
            </tr>
            <tr>
                <td id="id5"><spring:message code="label.kidsVegCount"
/></td>
                <td><form:input path="kidsVegCount"
                    name="kidsVegCount" id="kidsVegCount" /></td>
                <td><form:errors
path="kidsVegCount"></form:errors></td>
            </tr>
            <tr>
                <td id="id6"><spring:message
code="label.adultNonVegCount" /></td>
                <td><form:input path="adultNonVegCount"
                    name="adultNonVegCount" id="adultNonVegCount"
/></td>
                <td><form:errors
path="adultNonVegCount"></form:errors></td>
            </tr>
            <tr>
                <td id="id7"><spring:message
code="label.kidsNonVegCount" /></td>
                <td><form:input path="kidsNonVegCount"
                    name="kidsNonVegCount" id="kidsNonVegCount"
/></td>
                <td><form:errors
path="kidsNonVegCount"></form:errors></td>
            </tr>
            <tr>
                <td><input type="submit" id="submit" name="submit"
                    value="CalculateCost" /></td>
                <td><input type="reset" id="reset" name="reset"
                    value="Cancel" /></td>
            </tr>
        </table>
    </form:form>
</body>
</html>

```