Buffet Restaurant V1

Grade settings: Maximum grade: 100
Based on: Buffet Restaurant V1
Run: Yes **Evaluate**: Yes
Automatic grade: Yes **Maximum execution time**: 240 s **Maximum memory used**: 2
GiB **Maximum execution file size**: 1.50 GiB **Maximum number of processes**: 100000

Buffet Restaurant

Result Description

Submitted by sathya .

Automatic evaluation[-]

Proposed grade: 98.75 / 100
Result Description
[-]SOURCE CODE ANALYZER REPORT
Error Msg: A method should have only one exit point, and that should be the last statement
in the method
Variable Name:
Class Name: BookController

Assessment Completed Successfully
[-]Grading and Feedback
Feature Test - 30.00 / 30.00(Success)
        * check whether the controller annotation is present above the Controller - 6.00
/ 6.00
        * check whether the ModelAttribute annotation is present above the Method - 6.00
/ 6.00
        * check whether the Service is autowired inside the Controller - 6.00 / 6.00
        * check whether Service annotation is present above the Service - 6.00 / 6.00
        * check whether the ModelAttribute annotation has the appropriate value above the
Method - 6.00 / 6.00

Functional testing - 20.00 / 20.00(Success)
        * check whether the Total cost is calculated correctly for the Hall Type AC -
10.00 / 10.00
        * check whether the Total cost is calculated correctly for the Hall Type NonAC -
10.00 / 10.00

Spring Testing in the Controller - 20.00 / 20.00(Success)
        * check whether the request is mapped for showPage and redirected to showpage -
5.00 / 5.00

* check whether layering is followed that is whether total cost is calculated by invoking the service method inside the Controller - 10.00 / 10.00
        * check whether the request is mapped for calculateTotalCost and redirected to result page - 5.00 / 5.00

UI Testing - 25.00 / 25.00(Success)
        * check whether the showpage jsp is rendered for AC Hall - 1.00 / 1.00
        * check whether the showpage jsp is rendered for Non AC Hall - 1.00 / 1.00
        * check whether the showpage jsp is rendered with proper constraints for customerName - 0.50 / 0.50
        * check whether the showpage jsp is rendered with proper constraints for contactNumber - 0.50 / 0.50
        * check whether the showpage jsp is rendered with proper constraints for adultVegCount - 0.50 / 0.50
        * check whether the showpage jsp is rendered with proper constraints for kidsVegCount - 0.50 / 0.50
        * check whether the showpage jsp is rendered with proper constraints for kidsNonVegCount - 0.50 / 0.50
        * check whether the showpage jsp is rendered with proper constraints for adultNonVegCount - 0.50 / 0.50
        * check whether UI from showpage to result page is redirected after calculating the total cost for AC hall - 1.00 / 1.00
        * check whether UI from showpage to result page is redirected after calculating the course fees for JEE for FastTrack - 1.00 / 1.00
        * check whether label names from the property file is correctly displayed for English - 2.00 / 2.00
        * check whether label names from the property file is correctly displayed for German - 2.00 / 2.00
        * check whether label names from the property file is correctly displayed for French - 2.00 / 2.00
        * check whether error message for Customer Name in blank from the property file is correctly displayed for German - 2.00 / 2.00
        * check whether error message for Contact Number in blank from the property file is correctly displayed for German - 2.00 / 2.00
        * check whether error message for Adult Count For Veg in negative from the property file is correctly displayed for French - 2.00 / 2.00
        * check whether error message for Kids count for Veg in negative from the property file is correctly displayed for English - 2.00 / 2.00
        * check whether error message for Adult Count For NonVeg in negative from the property file is correctly displayed for French - 2.00 / 2.00
        * check whether error message for Kids Count For NonVeg in negative from the property file is correctly displayed for English - 2.00 / 2.00

Comments and best practices/standards - 3.75 / 5.0(Partial)

BuffetRestaurant/pom.xml

```xml
 1 <?xml version="1.0" encoding="UTF-8"?>
 2 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 3        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
 4        <modelVersion>4.0.0</modelVersion>
 5        <parent>
 6                <groupId>org.springframework.boot</groupId>
 7                <artifactId>spring-boot-starter-parent</artifactId>
 8                <version>2.1.8.RELEASE</version>
 9                <relativePath/> <!-- lookup parent from repository -->
10        </parent>
11        <groupId>com</groupId>
12        <artifactId>EBBill</artifactId>
13        <version>0.0.1-SNAPSHOT</version>
14        <name>EBBill</name>
15        <description>Demo project for Spring Boot</description>
```

```xml
16
17        <properties>
18                <java.version>1.8</java.version>
19        </properties>
20
21        <dependencies>
22                <dependency>
23                        <groupId>org.springframework.boot</groupId>
24                        <artifactId>spring-boot-starter</artifactId>
25                </dependency>
26
27
28        <dependency>
29                        <groupId>org.springframework.boot</groupId>
30                        <artifactId>spring-boot-starter-web</artifactId>
31                </dependency>
32
33                 <dependency>
34   <groupId>org.apache.tomcat.embed</groupId>
35   <artifactId>tomcat-embed-jasper</artifactId>
36   <scope>provided</scope>
37  </dependency>
38  <dependency>
39  <groupId>javax.servlet</groupId>
40  <artifactId>servlet-api</artifactId>
41  <version>2.5</version>
42  <scope>provided</scope>
43 </dependency>
44 <dependency>
45  <groupId>javax.servlet.jsp</groupId>
46  <artifactId>jsp-api</artifactId>
47  <version>2.1</version>
48  <scope>provided</scope>
49 </dependency>
50
51 <dependency>
52  <groupId>taglibs</groupId>
53  <artifactId>standard</artifactId>
54  <version>1.1.2</version>
55 </dependency>
56 <dependency>
57  <groupId>javax.servlet</groupId>
58  <artifactId>jstl</artifactId>
59  <version>1.2</version>
60 </dependency>
61                <dependency>
62                        <groupId>org.springframework.boot</groupId>
63                        <artifactId>spring-boot-starter-test</artifactId>
64                        <scope>test</scope>
65                        <exclusions>
66                                <exclusion>
67                                        <groupId>org.junit.vintage</groupId>
68                                        <artifactId>junit-vintage-engine</artifactId>
69                                </exclusion>
70                        </exclusions>
71                </dependency>
72        </dependencies>
73
74        <build>
75                <plugins>
76                        <plugin>
77                                <groupId>org.springframework.boot</groupId>
78                                <artifactId>spring-boot-maven-plugin</artifactId>
79                        </plugin>
80                </plugins>
81        </build>
```

```
82
83 </project>
84
85
```

BuffetRestaurant/src/main/java/com/controller/BookController.java

```java
 1 package com.controller;
 2 import java.util.HashMap;
 3 import java.util.Map;
 4 import javax.validation.Valid;
 5 import org.springframework.beans.factory.annotation.Autowired;
 6 import org.springframework.stereotype.Controller;
 7 import org.springframework.ui.ModelMap;
 8 import org.springframework.validation.BindingResult;
 9 import org.springframework.web.bind.annotation.ModelAttribute;
10 import org.springframework.web.bind.annotation.RequestMapping;
11 import org.springframework.web.bind.annotation.RequestMethod;
12
13 import com.model.BookRestaurant;
14 import com.service.BookService;
15
16 @Controller
17 public class BookController {
18
19        @Autowired
20        private BookService bookService;
21
22        @RequestMapping(value = "/showPage", method = RequestMethod.GET)
23        public String showPage(@ModelAttribute("book") BookRestaurant book) {
24
25                return "showpage";
26        }
27
28        @ModelAttribute("hallList")
29        public  Map<String, String> populateHallType(){
30
31                Map<String, String> serviceMap = new HashMap<String, String>();
32                serviceMap.put("AC", "AC");
33                serviceMap.put("NonAC", "NonAC");
34                return serviceMap;
35
36        }
37
38        @RequestMapping(value = "/billDesk", method = RequestMethod.POST)
39        public String calculateTotalCost(@Valid@ModelAttribute("book") BookRestaurant book,
40                        BindingResult result,ModelMap model) {
41
42                if(result.hasErrors())
43                {
44                        return "showpage";
45                }
46                else
47                {
48                double cost=bookService.calculateTotalCost(book);
49                model.addAttribute("cost", cost);
50                return "billdesk";
51                }
52        }
53
54 }
55
```

BuffetRestaurant/src/main/java/com/controller/InternationalizationConfig.java

```java
1 package com.controller;
2
3 import java.util.Locale;
4
5 import org.springframework.context.annotation.Bean;
6 import org.springframework.context.annotation.Configuration;
7 import org.springframework.context.support.ResourceBundleMessageSource;
8 import org.springframework.validation.beanvalidation.LocalValidatorFactoryBean;
9 import org.springframework.web.servlet.LocaleResolver;
10 import org.springframework.web.servlet.config.annotation.InterceptorRegistry;
11 import org.springframework.web.servlet.config.annotation.WebMvcConfigurerAdapter;
12 import org.springframework.web.servlet.i18n.LocaleChangeInterceptor;
13 import org.springframework.web.servlet.i18n.SessionLocaleResolver;
14
15 @Configuration
16 public class InternationalizationConfig extends WebMvcConfigurerAdapter {
17
18 //Create a SessionLocaleResolver object and set the default locale to English  return the
SessionLocaleResolver object
19        @Bean
20    public LocaleResolver localeResolver() {
21
22                SessionLocaleResolver slr=new SessionLocaleResolver();
23                slr.setDefaultLocale(Locale.US);
24                return slr;
25
26
27    }
28
29    //Create LocaleChangeInterceptor object and set the parameter name as language and return the
localeChangeInterceptor
30    @Bean
31    public LocaleChangeInterceptor localeChangeInterceptor() {
32        LocaleChangeInterceptor lci=new LocaleChangeInterceptor();
33                lci.setParamName("language");
34                return lci;
35
36
37    }
38
39
40    //register the LocaleChangeInterceptor
41    @Override
42    public void addInterceptors(InterceptorRegistry registry) {
43        registry.addInterceptor(localeChangeInterceptor());
44
45    }
46
47    @Bean
48        public ResourceBundleMessageSource messageSource()
49        {
50                ResourceBundleMessageSource rms=new ResourceBundleMessageSource();
51                rms.setBasenames("messages","messages_fr","messages_de");
52                return rms;
53
54
55        }
56
57        @Bean
58    public LocalValidatorFactoryBean getValidator() {
59        LocalValidatorFactoryBean bean = new LocalValidatorFactoryBean();
60        bean.setValidationMessageSource(messageSource());
61        return bean;
62
63    }
64 }
```

BuffetRestaurant/src/main/java/com/example/demo/BuffetRestaurantApplication.java

```
1 package com.example.demo;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5 import org.springframework.context.annotation.ComponentScan;
6
7 @SpringBootApplication
8 @ComponentScan({"com.controller","com.model","com.service"})
9 public class BuffetRestaurantApplication {
10
11     public static void main(String[] args) {
12             SpringApplication.run(BuffetRestaurantApplication.class, args);
13     }
14
15 }
16
```

BuffetRestaurant/src/main/java/com/model/BookRestaurant.java

```
1 package com.model;
2
3 import javax.validation.constraints.NotEmpty;
4 import javax.validation.constraints.PositiveOrZero;
5
6 import org.springframework.stereotype.Component;
7
8 @Component
9 public class BookRestaurant {
10
11     @NotEmpty(message = "{error.customerName.blank}")
12     private String customerName;
13     @NotEmpty(message = "{error.contactNumber.blank}")
14     private String contactNumber;
15     private String hallType;
16     @PositiveOrZero(message="{error.adultCount.forVeg.positive}")
17     private int adultVegCount;
18     @PositiveOrZero(message="{error.kidsCount.forVeg.positive}")
19     private int kidsVegCount;
20     @PositiveOrZero(message="{error.adultCount.forNonVeg.positive}")
21     private int adultNonVegCount;
22     @PositiveOrZero(message="{error.kidsCount.forNonVeg.positive}")
23     private int kidsNonVegCount;
24
25     public String getCustomerName() {
26             return customerName;
27     }
28     public void setCustomerName(String customerName) {
29             this.customerName = customerName;
30     }
31     public String getContactNumber() {
32             return contactNumber;
33     }
34     public void setContactNumber(String contactNumber) {
35             this.contactNumber = contactNumber;
36     }
37     public String getHallType() {
38             return hallType;
39     }
40     public void setHallType(String hallType) {
41             this.hallType = hallType;
```

```java
42          }
43          public int getAdultVegCount() {
44                  return adultVegCount;
45          }
46          public void setAdultVegCount(int adultVegCount) {
47                  this.adultVegCount = adultVegCount;
48          }
49          public int getKidsVegCount() {
50                  return kidsVegCount;
51          }
52          public void setKidsVegCount(int kidsVegCount) {
53                  this.kidsVegCount = kidsVegCount;
54          }
55          public int getAdultNonVegCount() {
56                  return adultNonVegCount;
57          }
58          public void setAdultNonVegCount(int adultNonVegCount) {
59                  this.adultNonVegCount = adultNonVegCount;
60          }
61          public int getKidsNonVegCount() {
62                  return kidsNonVegCount;
63          }
64          public void setKidsNonVegCount(int kidsNonVegCount) {
65                  this.kidsNonVegCount = kidsNonVegCount;
66          }
67
68
69
70
71 }
72
73
```

BuffetRestaurant/src/main/java/com/service/BookService.java

```java
1 package com.service;
2
3 import org.springframework.stereotype.Service;
4
5 import com.model.BookRestaurant;
6
7 @Service
8 public class BookService {
9
10          public double calculateTotalCost(BookRestaurant book) {
11
12                  double cost=0.0;
13                  if(book.getHallType().equalsIgnoreCase("AC"))
14                  {
15                          cost = ((book.getAdultVegCount() * 599.0)+(book.getKidsVegCount() * 249.0)+
(book.getAdultNonVegCount() * 699.0)+(book.getKidsNonVegCount() * 349.0))+500.0;
16                  }
17                  else
18                  {
19                          cost = ((book.getAdultVegCount() * 599.0)+(book.getKidsVegCount() * 249.0)+
(book.getAdultNonVegCount() * 699.0)+(book.getKidsNonVegCount() * 349.0));
20                  }
21                  return cost;
22
23          }
24
25 }
26
27
```

BuffetRestaurant/src/main/resources/application.properties

```
1 #Do not edit the key server.port.Port number can be changed
2 #include other needed configurations
3 server.port=9095
4 spring.mvc.view.prefix = /WEB-INF/views/
5 spring.mvc.view.suffix = .jsp
6 spring.mvc.static-path-pattern=/resources/**
7
8
```

BuffetRestaurant/src/main/resources/messages.properties

```
1 label.customerName=Customer Name in English
2 label.contactNumber=Contact Number in English
3 label.hallType=Hall Type in English
4 label.adultVegCount=Adult Count For Veg in English
5 label.kidsVegCount=Kids Count For Veg in English
6 label.adultNonVegCount=Adult Count For NonVeg in English
7 label.kidsNonVegCount=Kids Count For NonVeg in English
8
9 error.customerName.blank=Customer Name cannot be empty in English
10 error.contactNumber.blank=Contact Number cannot be empty in English
11 error.adultCount.forVeg.positive=Adult count for Veg should not be a negative number in English
12 error.kidsCount.forVeg.positive=Kids count for Veg should not be a negative number in English
13 error.adultCount.forNonVeg.positive=Adult count for NonVeg should not be a negative number in English
14 error.kidsCount.forNonVeg.positive=Kids count for NonVeg should not be a negative number in English
15
```

BuffetRestaurant/src/main/resources/messages_de.properties

```
1 label.customerName=Customer Name in German
2 label.contactNumber=Contact Number in German
3 label.hallType=Hall Type in German
4 label.adultVegCount=Adult Count For Veg in German
5 label.kidsVegCount=Kids Count For Veg in German
6 label.adultNonVegCount=Adult Count For NonVeg in German
7 label.kidsNonVegCount=Kids Count For NonVeg in German
8
9 error.customerName.blank=Customer Name cannot be empty in German
10 error.contactNumber.blank=Contact Number cannot be empty in German
11 error.adultCount.forVeg.positive=Adult count for Veg should not be a negative number in German
12 error.kidsCount.forVeg.positive=Kids count for Veg should not be a negative number in German
13 error.adultCount.forNonVeg.positive=Adult count for NonVeg should not be a negative number in German
14 error.kidsCount.forNonVeg.positive=Kids count for NonVeg should not be a negative number in German
15
```

BuffetRestaurant/src/main/resources/messages_fr.properties

```
1 label.customerName=Customer Name in French
2 label.contactNumber=Contact Number in French
3 label.hallType=Hall Type in French
4 label.adultVegCount=Adult Count For Veg in French
5 label.kidsVegCount=Kids Count For Veg in French
6 label.adultNonVegCount=Adult Count For NonVeg in French
7 label.kidsNonVegCount=Kids Count For NonVeg in French
8
9 error.customerName.blank=Customer Name cannot be empty in French
10 error.contactNumber.blank=Contact Number cannot be empty in French
11 error.adultCount.forVeg.positive=Adult count for Veg should not be a negative number in French
12 error.kidsCount.forVeg.positive=Kids count for Veg should not be a negative number in French
13 error.adultCount.forNonVeg.positive=Adult count for NonVeg should not be a negative number in French
14 error.kidsCount.forNonVeg.positive=Kids count for NonVeg should not be a negative number in French
15
```

BuffetRestaurant/src/main/webapp/WEB-INF/views/billdesk.jsp

```
1 <%@page isELIgnored="false" %>
2 <html>
3 <body bgcolor="lavender">
4 <h2>Thanks for Booking!!! Total Amount to be paid is Rs.${cost}</h2>
5 </body>
6 </html>
```

BuffetRestaurant/src/main/webapp/WEB-INF/views/showpage.jsp

```
1 <%@ taglib prefix="spring" uri="http://www.springframework.org/tags" %>
2 <%@ taglib prefix="sf" uri="http://www.springframework.org/tags/form" %>
3 <%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
4 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
5    pageEncoding="ISO-8859-1" isELIgnored="false"%>
6
7
8 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
9 <html>
10 <body style="background-color:lavender">
11 <h1><center> Delicious Buffet Restaurant </center></h1>
12 <a href="/showPage?language=en">English</a>|<a href="/showPage?language=de">German</a>|<a
href="/showPage?language=fr">French</a>
13
14 <form:form method="post" action="billDesk" modelAttribute="book">
15
16 <table style="margin: 0px auto; margin-left: auto; margin-right:auto">
17
18       <tr>
19       <td><spring:message code="label.customerName"/></td>
20       <td><form:input path="customerName" id="customerName"/></td>
21       <td><form:errors path="customerName"/></td>
22       </tr>
23                <tr>
24                <td><spring:message code="label.contactNumber"/></td>
25       <td><form:input path="contactNumber" id="contactNumber"/></td>
26       <td><form:errors path="contactNumber"/></td>
27                </tr>
28                <tr>
29                <td><spring:message code="label.hallType"/></td>
30                <td><form:select path="hallType" id="hallType">
31                   <form:options items="${hallList}"/></form:select>
32                </td>
33                </tr>
34                <tr>
35                <td><spring:message code="label.adultVegCount"/></td>
36                <td><form:input path="adultVegCount" id="adultVegCount"/></td>
37                <td><form:errors path="adultVegCount"/></td>
38                </tr>
39                <tr>
40                <td><spring:message code="label.kidsVegCount"/></td>
41                <td><form:input path="kidsVegCount" id="kidsVegCount"/></td>
42                <td><form:errors path="kidsVegCount"/></td>
43                </tr>
44                <tr>
45                <td><spring:message code="label.adultNonVegCount"/></td>
46                <td><form:input path="adultNonVegCount" id="adultNonVegCount"/></td>
47                <td><form:errors path="adultNonVegCount"/></td>
48                </tr>
49                <tr>
50                <td><spring:message code="label.kidsNonVegCount"/></td>
51                <td><form:input path="kidsNonVegCount" id="kidsNonVegCount"/></td>
52                <td><form:errors path="kidsNonVegCount"/></td>
```

```
53                   </tr>
54                   <tr>
55                   <td><input type="submit" value="CalculateCost" id="submit" /></td>
56                   <td><input type="reset" value="Cancel"/></td>
57                   </tr>
58
59                   </table>
60 </form:form>
61
62
63 </body>
64 </html>
65
```

Grade

Reviewed on Saturday, 26 February 2022, 2:22 PM by Automatic grade
Grade 98.75 / 100
Assessment report
[-]**SOURCE CODE ANALYZER REPORT**
Error Msg: A method should have only one exit point, and that should be the last statement
in the method
Variable Name:
Class Name: BookController

Assessment Completed Successfully
[-]**Grading and Feedback**
Feature Test - 30.00 / 30.00(Success)
         * check whether the controller annotation is present above the Controller - 6.00
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Method - 6.00 / 6.00

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         * check whether the Total cost is calculated correctly for the Hall Type AC -
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         * check whether the Total cost is calculated correctly for the Hall Type NonAC -
10.00 / 10.00

Spring Testing in the Controller - 20.00 / 20.00(Success)
         * check whether the request is mapped for showPage and redirected to showpage -
5.00 / 5.00
         * check whether layering is followed that is whether total cost is calculated by
invoking the service method inside the Controller - 10.00 / 10.00
         * check whether the request is mapped for calculateTotalCost and redirected to
result page - 5.00 / 5.00

UI Testing - 25.00 / 25.00(Success)
         * check whether the showpage jsp is rendered for AC Hall - 1.00 / 1.00
         * check whether the showpage jsp is rendered for Non AC Hall - 1.00 / 1.00
         * check whether the showpage jsp is rendered with proper constraints for
customerName - 0.50 / 0.50
         * check whether the showpage jsp is rendered with proper constraints for
contactNumber - 0.50 / 0.50
         * check whether the showpage jsp is rendered with proper constraints for
adultVegCount - 0.50 / 0.50
         * check whether the showpage jsp is rendered with proper constraints for
kidsVegCount - 0.50 / 0.50
         * check whether the showpage jsp is rendered with proper constraints for
kidsNonVegCount - 0.50 / 0.50

check whether the showpage jsp is rendered with proper constraints for adultNonVegCount - 0.50 / 0.50
check whether UI from showpage to result page is redirected after calculating the total cost for AC hall - 1.00 / 1.00
check whether UI from showpage to result page is redirected after calculating the course fees for JEE for FastTrack - 1.00 / 1.00
check whether label names from the property file is correctly displayed for English - 2.00 / 2.00
check whether label names from the property file is correctly displayed for German - 2.00 / 2.00
check whether label names from the property file is correctly displayed for French - 2.00 / 2.00
check whether error message for Customer Name in blank from the property file is correctly displayed for German - 2.00 / 2.00
check whether error message for Contact Number in blank from the property file is correctly displayed for German - 2.00 / 2.00
check whether error message for Adult Count For Veg in negative from the property file is correctly displayed for French - 2.00 / 2.00
check whether error message for Kids count for Veg in negative from the property file is correctly displayed for English - 2.00 / 2.00
check whether error message for Adult Count For NonVeg in negative from the property file is correctly displayed for French - 2.00 / 2.00
check whether error message for Kids Count For NonVeg in negative from the property file is correctly displayed for English - 2.00 / 2.00

Comments and best practices/standards - 3.75 / 5.0(Partial)