

EEZEETransport/pom.xml

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
2   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5   <groupId>com.eeze</groupId>
6   <artifactId>EEZEETransport</artifactId>
7   <version>0.0.1-SNAPSHOT</version>
8   <properties>
9       <maven.compiler.target>1.8</maven.compiler.target>
10      <maven.compiler.source>1.8</maven.compiler.source>
11      <testng.version>6.14.3</testng.version>
12   </properties>
13   <dependencies>
14
15       <!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->
16       <dependency>
17           <groupId>org.springframework</groupId>
18           <artifactId>spring-context</artifactId>
19           <version>5.2.2.RELEASE</version>
20       </dependency>
21
22       <!-- https://mvnrepository.com/artifact/org.junit.jupiter/junit-jupiter-api -->
23       <dependency>
24           <groupId>org.junit.jupiter</groupId>
25           <artifactId>junit-jupiter-api</artifactId>
26           <version>5.5.2</version>
27           <scope>test</scope>
28       </dependency>
29       <!-- https://mvnrepository.com/artifact/org.junit.jupiter/junit-jupiter-engine -->
30       <dependency>
31           <groupId>org.junit.jupiter</groupId>
32           <artifactId>junit-jupiter-engine</artifactId>
33           <version>5.5.2</version>
34           <scope>test</scope>
35       </dependency>
36
37   </dependencies>
38   <build>
39
40       <plugins>
41
42           <plugin>
43               <groupId>org.apache.maven.plugins</groupId>
44               <artifactId>maven-surefire-report-plugin</artifactId>
45               <version>3.0.0-M4</version>
46           </plugin>
47       </plugins>
48
49   </build>
50 </project>
```

EEZEETransport/src/main/java/com/cts/eezee/Main.java

```
1 package com.cts.eezee;  
2  
3 import java.text.ParseException;  
4 import org.springframework.context.ConfigurableApplicationContext;  
5 import org.springframework.context.support.ClassPathXmlApplicationContext;  
6  
7 import com.cts.eezee.model.Booking;  
8 import com.cts.eezee.service.TransportService;  
9  
10 public class Main {  
11  
12     public static void main(String[] args) throws ParseException {  
13  
14         // code here  
15         ConfigurableApplicationContext context = new ClassPathXmlApplicationContext("bean.xml");  
16  
17         TransportService transportService = (TransportService) context.getBean("transportService");  
18         Booking booking = (Booking) context.getBean("booking");  
19  
20         transportService.registerBooking(booking);  
21  
22         context.close();  
23     }  
24  
25 }  
26
```

EEZEETransport/src/main/java/com/cts/eezee/model/Booking.java

```
1 package com.cts.eezee.model;
2
3 import java.util.Date;
4
5 public class Booking {
6     private String customerName;
7     private Long mobileNumber;
8     private String destination;
9     private Date dateOfJourney;
10
11     public String getCustomerName() {
12         return customerName;
13     }
14
15     public void setCustomerName(String customerName) {
16         this.customerName = customerName;
17     }
18
19     public Long getMobileNumber() {
20         return mobileNumber;
21     }
22
23     public void setMobileNumber(Long mobileNumber) {
24         this.mobileNumber = mobileNumber;
25     }
26
27     public String getDestination() {
28         return destination;
29     }
30
31     public void setDestination(String destination) {
32         this.destination = destination;
33     }
34
35     public Date getDateOfJourney() {
36         return dateOfJourney;
37     }
38
39     public void setDateOfJourney(Date dateOfJourney) {
40         this.dateOfJourney = dateOfJourney;
41     }
42
43 }
44
```

EEZEETransport/src/main/java/com/cts/eezee/model/Vehicle.java

```
1 package com.cts.eezee.model;
2
3 import java.util.Map;
4
5 public class Vehicle {
6     private String source;
7     private Map<String, Double> destinationMap;
8
9     public Vehicle(String source) {
10         super();
11         this.source = source;
12     }
13
14     public String getSource() {
15         return source;
16     }
17
18     public void setSource(String source) {
19         this.source = source;
20     }
21
22     public Map<String, Double> getDestinationMap() {
23         return destinationMap;
24     }
25
26     public void setDestinationMap(Map<String, Double> destinationMap) {
27         this.destinationMap = destinationMap;
28     }
29 }
30 }
31
```

EEZEETransport/src/main/java/com/cts/eezee/service/TransportService.java

```
1 package com.cts.eezee.service;
2
3 import java.text.ParseException;
4 import java.text.SimpleDateFormat;
5 import java.util.Calendar;
6 import java.util.Date;
7 import java.util.Map;
8 import java.util.Scanner;
9
10 import org.springframework.beans.factory.annotation.Autowired;
11
12 import com.cts.eezee.model.Booking;
13 import com.cts.eezee.model.Vehicle;
14
15 public class TransportService {
16
17     @Autowired
18     private Vehicle vehicle;
19
20     // Initialising the date format
21     private SimpleDateFormat sdf = new SimpleDateFormat("dd-MM-yyyy");
22
23     public Vehicle getVehicle() {
24         return vehicle;
25     }
26
27     public void setVehicle(Vehicle vehicle) {
28         this.vehicle = vehicle;
29     }
30
31     public void registerBooking(Booking booking) throws ParseException {
32
33         // code here
34
35         Scanner s = new Scanner(System.in);
36
37         // Getting customer inputs
38         System.out.println("Enter the Customer Name");
39         String customerName = s.nextLine().trim();
40
41         System.out.println("Enter the Mobile Number");
42         Long mobileNumber = s.nextLong();
43
44         System.out.println("Enter the Destination");
45         String destination = s.next();
46
47         System.out.println("Enter the Date of Journey <dd-MM-yyyy>");
48         Date dateOfJourney = sdf.parse(s.next());
49         s.close();
50
51         // Setting customer inputs to booking instance
52         booking.setCustomerName(customerName);
53         booking.setMobileNumber(mobileNumber);
54         booking.setDestination(destination);
55         booking.setDateOfJourney(dateOfJourney);
56
57         // Invoking this method to calculate and display the travel cost
58         calculateTravelCost(vehicle.getSource(), destination, dateOfJourney);
59     }
60
61     public void calculateTravelCost(String source, String destination, Date doj) {
62
63         // code here
64         String output = checkAvailableDateForTravel(doj) ? "Total Travel Cost is Rs. " + getCost(destination)
65             : "Invalid Travel Date";
66
67         System.out.println(output);
68     }
```

```

69
70 public boolean checkAvailableDateForTravel(Date doj) {
71
72     // code here
73     Date today = new Date();
74     String todayString = sdf.format(today);
75     String dojString = sdf.format(doj);
76
77     /// Using calender class to convert 'today' to 'tomorrow'
78     Calendar cal = Calendar.getInstance();
79     cal.setTime(today);
80     cal.add(Calendar.DATE, 1);
81
82     // Getting 'tomorrow' from cal
83     Date tomorrow = cal.getTime();
84     String tomorrowString = sdf.format(tomorrow);
85
86     return dojString.equals(todayString) || dojString.equals(tomorrowString);
87 }
88
89 public double getCost(String destination) {
90
91     // code here
92     Map<String, Double> destinationMap = vehicle.getDestinationMap();
93
94     return destinationMap.containsKey(destination) ? destinationMap.get(destination) : 0.0;
95 }
96
97 }
98

```

EEZEETransport/src/main/resources/bean.xml

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:context="http://www.springframework.org/schema/context" xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-4.3.xsd http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-4.3.xsd">
3
4
5 <context:annotation-config />
6
7 <bean id="booking" class="com.cts.eezee.model.Booking" />
8
9 <bean id="transportService" class="com.cts.eezee.service.TransportService" />
10
11     <bean id="vehicle" class="com.cts.eezee.model.Vehicle">
12         <constructor-arg value="Chennai" />
13         <property name="destinationMap">
14             <map>
15                 <entry key="Bangalore" value="1500" />
16                 <entry key="Delhi" value="2500" />
17                 <entry key="Mumbai" value="2000" />
18                 <entry key="Hyderabad" value="1000" />
19                 <entry key="Pune" value="2500" />
20             </map>
21         </property>
22     </bean>
23
24 </beans>

```