

Description Code Editor Grading view

EZEE Transport

EEZEE TRANSPORT - Ticket Booking

EEZEE TRANSPORT is one of the renowned travel service providers. They are in a need of system which helps customer book vehicle from Chennai to various cities and find appropriate travel cost. You being their software consultant have been approached by them to develop a software system which can be used for managing their business.

Provided **Booking** class with the below **private attributes** as a part of code skeleton

customerName	String
mobileNumber	Long
destination	String
dateOfJourney	java.util.Date

Getter and setter methods for all the above attributes have been provided as a part of code skeleton.

Customer class should be registered as a **bean** with the spring container via **XML file**.

Provided **Vehicle** class with the below **private attributes** as a part of code skeleton

source	String
destinationMap	Map<String, Double>

Getter and setter methods for all the above attributes have been provided as a part of code skeleton.

Vehicle class should be registered as a bean with the spring container via **XML file**.

The values for source attributes should **be injected via constructor based injection** and the default source must be "**Chennai**".

The Map should be configured in the bean.xml file with the below key-values should be **injected via setter based injection**.

Key -destination (String)	Value- cost(Double)
Bangalore	1500
Delhi	2500
Mumbai	2000
Hyderabad	1000
Pune	2500



main.java. main(String[] arg).void

- a. Using ApplicationContext, get TransportService bean and Booking bean.
- b. Invoke the registerBooking(booking) method using the transportService bean.

Technical Specifications:

Component Name	Method Name	Input	Output	Exception
TransportService	registerBooking	Booking booking	Void	ParseException
	calculateTravelCost	String source, String destination, Date doj	Void	
	checkAvailableDateForTravel	Date doj	boolean:result	
	getCost	String destination	double: cost	
bean.xml	Contains all the XML configurations related to Service			

Business Rules & Validations:

In **TransportService** class includes the following private attribute **and inject via setter based injection**.

private Vehicle vehicle;

Getter and setter methods for the above attribute has been provided as a part of code skeleton

Service 1: **registerBooking(booking): void**

This method used to get booking information and calculate travel cost based on customer information.

- a. Inject Booking bean using application context.
- b. Get Booking information like customerName, mobileNumber, destination, date of journey (date format must be dd-MM-yyyy) from customer.
- c. Invoke calculateTravelCost() method, Use booking bean to get the destination,dateOfJourney and use vehicle bean to get default source.

Service 2: **calculateTravelCost(String source, String destination, Date doj) : void**

- a. Invoke checkAvailableDateForTravel(doj).
- b. If it returns true then display the "**Total Travel Cost is Rs.** "and invoke **getCost(destination)** method.
- c. If it returns false then display "Invalid Travel Date".

Service 3: **checkAvailableDateForTravel(doj): boolean**

- a. If DOJ is current date/next date, then return true.

Service 4: **getCost(destination): double**

- b. Use Vehicle Bean, get the travelcost from map if destination exists

Limitations and Constraints:

- 1. **Booking** and **Vehicle** class should be in **com.cts.eezee.model** package.
- 2. **TransportService** class should be in **com.cts.eezee.service** package.
- 3. **Main** class should be in **com.cts.eezee** package.

5. **vehicle** should be declared as an **inner bean** in the **TransportService** class and should be injected by autowire inside **bean.xml**.
6. **Vehicle** should be configured as bean inside bean.xml with the bean id as "**vehicle**"
7. The cost for each destination should be declared as a MAP in the **bean.xml** and should be injected using setter.
11. Use ONLY **bean.xml** for all configurations.

Sample Input Output 1:

Enter the Customer Name

Antony Prakash

Enter the Mobile Number

9845623456

Enter the Destination

Delhi

Enter the Date of Journey <dd-MM-yyyy>

27-04-2020

Total Travel Cost is Rs. 2500.0

Sample Input Output 2:

Enter the Customer Name

Renita Colette

Enter the Mobile Number

9763458245

Enter the Destination

Delhi

Enter the Date of Journey <dd-MM-yyyy>

26-04-2020

Invalid Travel Date