Restaurant Order Management

Description:
The web-service designed is a restaurant order system. This web-service provides the user a facility to book a table and then place an order.

Co-ordination Protocol:
The co-ordination protocol of the web-service ensures that the user performs the operation of booking the table first followed by the process of placing the order. The operation of placing an order before booking a table is not allowed in the system.
On the client side, user needs to first enter his/her name. The user can select an operation to perform from a list of operations which are:
1) Book a table   2) Place an order   3) Exit

The screenshots of testing the web service are as follows:

Asgnmnt2 Web Service Tester

This form will allow you to test your web service implementation (WSDL File)

To invoke an operation, fill the method parameter(s) input boxes and click on the button labeled with the method name.

Methods :

public abstract java.lang.String assignment2.Asgnmnt2.getTableInfo(java.lang.String)
getTableInfo (5)

public abstract java.lang.String assignment2.Asgnmnt2.getOrderInfo(java.lang.String)
getOrderInfo (Stuffed Cherry Peppers)

Method parameter(s)

Type	Value
java.lang.String	5

Method returned

java.lang.String : **"You cannot place your order"**

SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getTableInfo xmlns:ns2="http://Assignment2/">
            <Seats>5</Seats>
        </ns2:getTableInfo>
    </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getTableInfoResponse xmlns:ns2="http://Assignment2/">
            <return>You cannot place your order</return>
        </ns2:getTableInfoResponse>
    </S:Body>
</S:Envelope>
```

Method parameter(s)

Type	Value
java.lang.String	4

Method returned

java.lang.String : **"You can place your order"**

SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getTableInfo xmlns:ns2="http://Assignment2/">
            <Seats>4</Seats>
        </ns2:getTableInfo>
    </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getTableInfoResponse xmlns:ns2="http://Assignment2/">
            <return>You can place your order</return>
        </ns2:getTableInfoResponse>
    </S:Body>
</S:Envelope>
```

Method parameter(s)

Type	Value
java.lang.String	Stuffed Cherry Peppers

Method returned

java.lang.String : **"Cost : 10 Category : Appetizer"**

SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getOrderInfo xmlns:ns2="http://Assignment2/">
            <Dish>Stuffed Cherry Peppers</Dish>
        </ns2:getOrderInfo>
    </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getOrderInfoResponse xmlns:ns2="http://Assignment2/">
            <return>Cost : 10 Category : Appetizer</return>
        </ns2:getOrderInfoResponse>
    </S:Body>
</S:Envelope>
```

Method parameter(s)

Type	Value
java.lang.String	Sandwich

Method returned

java.lang.String : **"Sorry! not available"**

SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getOrderInfo xmlns:ns2="http://Assignment2/">
            <Dish>Sandwich</Dish>
        </ns2:getOrderInfo>
    </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:getOrderInfoResponse xmlns:ns2="http://Assignment2/">
            <return>Sorry! not available</return>
        </ns2:getOrderInfoResponse>
    </S:Body>
</S:Envelope>
```

The screenshots of client application:


```
Output ⊗
  GlassFish Server ⊗   Java DB Database Process ⊗   Browser Log ⊗   Client (run) ⊗
  wsimport-init:
  wsimport-client-Asgnmnt2:
  files are up to date
  wsimport-client-generate:
  compile:
  run:
  Restaurant Order System
  Enter your name
  Nisha

  1. Book a Table
  2. Place your order
  3. Exit
  1
  You want table for how many people ?
  4
  You can place your order

  1. Book a Table
  2. Place your order
  3. Exit
  2
  Which dish would you like to order ?
  Stuffed Cherry Peppers
  Cost : 10 Category : Appetizer

  1. Book a Table
  2. Place your order
  3. Exit
  3
  BUILD SUCCESSFUL (total time: 24 seconds)
```

GlassFish Server ⊗   Java DB Database Process ⊗   Browser Log ⊗   **Client (run)** ⊗

```
Restaurant Order System
Enter your name
Nisha

1. Book a Table
2. Place your order
3. Exit
2
Which dish would you like to order ?
Stuffed Cherry Peppers
Invalid Sequence Number

1. Book a Table
2. Place your order
3. Exit
1
You want table for how many people ?
4
You can place your order

1. Book a Table
2. Place your order
3. Exit
2
Which dish would you like to order ?
Stuffed Cherry Peppers
Cost : 10 Category : Appetizer

1. Book a Table
2. Place your order
3. Exit
```