

Due Date: Jun 28th
Restaurant Delivery Service

Assignment.

You will create a restaurant delivery service. This service is used by web users so this will use a REST/jax-rs server. When a user goes to your delivery site they can access menus of restaurants and order an item from the menu. For simplicity you only have to support ordering one item at a time. The user will have to provide contact information and credit card info. Credit cards will be the only payment allowed.

In order to provide your web service you need to connect to a SOAP based server located at the restaurant itself. This data source will provide 2 pieces of information. It provides the restaurant information like name, address, and phone number. As well it provides the menu items. You also have to support submitting orders from web clients.

Finally you have your web service built using REST/JAX-RS. This service is essentially a passthrough service. Your web clients interact with it but the data ultimately gets forwarded to the soap restaurant servers. Your web service allows web clients to do two actions. Access the menu of a restaurant or order a menu item from the restaurant. Since this is communicating with a web client you will expose these actions via rest/jax-rs interface.

SOAP Sources

Restaurant Orders and Menus. Accessing the menu should return a list of food items. Each food item has an id,name, description, and price. The menu information should be stored in a database.

Restaurant orders include a list of food items, contact information(This will be just your company's information since we dont want to expose customer info to the restaurant), and payment info (again this will be your company's credit card info since your web service will charge the customer).

Front End Client

Web site using AJAX calls to retrieve menus and create orders. They will enter in all information needed to process an order.

Server

Expose ordering and menu viewing of SOAP sources via jax-rs. Use a database to track active orders. When a web client asks for a menu for a restaurant your server will retrieve it from the SOAP services.

When a customer enters an order the server will take the list of food items, the customer's contact information(name,address, and phone number) and the customer's credit card information. An order is created and stored in a mysql database. Your server will then make an order to the restaurant soap service by sending the list of food items and sending your company contact info and credit card information.