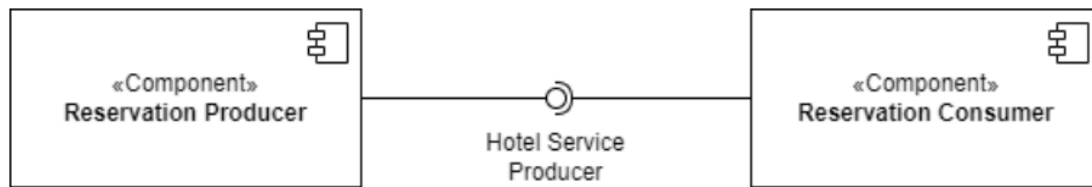# Restaurant Reservation Consumer / Restaurant Reservation Producer Service Implementation

In this restaurant, there are two roles: the Restaurant Manager and the Reservation Agent. The Manager can check the day's report and adjust table arrangements. The Reservation Agent handles table reservations for customers. If there aren't enough tables available, a message notifies about the shortage for specific table types.

1. Manifest implementation

Restaurant Reservation Consumer Manifest file

```
OSGI_RestaurantReservationConsumer  ×
 1 Manifest-Version: 1.0
 2 Bundle-ManifestVersion: 2
 3 Bundle-Name: OSGI_RestaurantReservationConsumer
 4 Bundle-SymbolicName: OSGI_RestaurantReservationConsumer
 5 Bundle-Activator: osgi_restaurantreservationconsumer.Activator
 6 Bundle-Version: 1.0.0.qualifier
 7 Bundle-RequiredExecutionEnvironment: JavaSE-1.8
 8 Import-Package: org.osgi.framework;version="1.3.0",
 9  osgi_restaurantreservationproducer
10 Require-Bundle: org.eclipse.osgi
11
```

Restaurant Reservation Producer Manifest file

```
OSGI_RestaurantReservationProducer  ×
 1 Manifest-Version: 1.0
 2 Bundle-ManifestVersion: 2
 3 Bundle-Name: OSGI_RestaurantReservationProducer
 4 Bundle-SymbolicName: OSGI_RestaurantReservationProducer
 5 Bundle-Version: 1.0.0.qualifier
 6 Bundle-Activator: osgi_restaurantreservationproducer.Activator
 7 Export-Package: osgi_restaurantreservationproducer
 8 Import-Package: org.osgi.framework;version="1.3.0"
 9 Bundle-RequiredExecutionEnvironment: JavaSE-1.8
10
```

2. All commands of bundle install and run in OSGi framework.

2: Restaurant Reservation Consumer

3: Restaurant Reservation Producer

3. Behaviours & Outputs

3.1 Admin [Manager]

As an administrator/manager, you have the ability to add tables to different types based on the establishment's needs. In this scenario, there are four table types: standard, outdoor, family, and private, each with its unique characteristics and costs.

As an administrator/ Manager, can remove table from selected table type.

As an administrator/ Manager, can view day report which include reserved tables and total income at the moment.

3.2 Reservation Agent

As an Reservation Agent, can make a reservation to the client. Here taking some information from the customer like the table type and numbers of tables that wishes to reserve. If there aren't any available tables of that particular type its showing that there aren't enough tables to complete the reservation..

As an Reservation Agent, can cancel any reservation.