

Problem : Order food in a restaurant

Identify Objects and Behaviors:

Thing(Object)/Entity:

Information(Data)/(State):
Services(Behaviors)/Actions

Thing:

Consumer(Integernet Shopper):

Data: name, phone number

Behaviors:ReadMenu(), OrderFood(), Cancel(),

Reviews(),Pay(),Wait()

Restaurant:

Data:name, phone number, owner, address, isOpen

Behaviors: Cook(Order), HasAvialableWaiter()

Dish:

Data: String[] name, double[] price

Behavior: isAvailable()

Order:

Data : Consumer consumer, Dish[] dishes, double sum

Behavior: add(), delete(),getPrice();

Waiter: Name,

Behavior: isVailable(), recommendDish()

Sequence of invoking behaviors on objects:

BookingHotelOnInternet:

Consumer Alice,

Restaurant Panda,

Dish appliePie

Dish bananaPie

Dish interestedDish

Order order

Waiter waiter

```
if (Panda.isOpen) {
    while(!Panda.HasAvailableWaiter()) {
        Alice.Wait()
    }
    while(Alice.ReadMenu()) {
        Waiter.wait()
    }
    if(applePie.isAvailable()) {
        Alice.OrderFood(applePie);
        order.Add(Alice, applePie);
    } else {
        Alice.OrderFood(bananaPie);
        order.Add(Alice, bananaPie);
    }
}
```

```
waiter.recommendDishes() => Collection of dishes.  
interestedDish = dish;  
Alice.OrderFood(interestedDish);  
order.Add(Alice, interestedDish);  
if(Alice.hasOrdered(applePie)) {  
    Alice.cancel(applePie);  
    order.delete(applePie);  
}  
Panda.cook(order);  
Alice.pay(sum);  
Alice.reviews();  
}
```