

4. Order food in a restaurant.

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/**

* neu-sep18 Assignment1

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Problem : Order food in a restaurant.

Customer :

Data: Name, Address, PhoneNumber, Email, FoodPreference

Behaviors : FindRestaurant, Enter, CheckWorkHour, SearchForMenu,
ViewFoodInfo, ViewMenuInfo, ChooseFood, FindTable, Order, Leave, Payments, Eat,
Drink, CallWaiter

Restaurant:

Data: Name, Address, PhoneNumber, Email, Pictures, Food, Server, Menu,
WorkHour

Behaviors: Service, EditMenuInfo, ReviewOrder, MakeFood, Check,
Recommendation, ServeFood, CleanUp

Food:

Data: Pictures, Name, Price, Ingredient

Menu:

Data: Food

CreditCard

Data : Number, Name, Company, ValidThru, SecurityCode

CardCompany

Data: Interface, AccountData

Behavior: ReceiveTransaction, AuthorizeTransaction, SendTransactionResult

Sequence of invoking behaviors on Objects:

Order food in a restaurant.

Customer customer

Restaurant restaurant

Food food

Menu menu

CreditCard visaCard

CardCompany visaCompany

customer.findRestaurant -> location : restaurantList

Initialize pageNumber = 1

Loop in restaurantList:

if customer findTheRestaurant

restaurant = findTheRestaurant

break

if restaurantList.hasNextPage

pageNumber = pageNumber +1

else if restaurantList.notHasNextPage

break

customer.Enter -> restaurant

customer.CheckWorkHour -> restaurant.WorkHour : workHourResult

if workHourResult is not in work time

customer.Leave

customer.FindRestaurantAgain

customer.CallWaiter

restaurant.Service -> customer

customer.FindTable

restaurant.Service -> customer, menu

customer.ViewMenuInfo

customer.ViewFoodInfo

restaurant.Recommendation -> food, customer.FoodPreference, customer

customer.ChooseFood

customer.Order

restaurant.ReviewOrder

restaurant.MakeFood

restaurant.ServeFood

customer.Eat

customer.CallWaiter -> napkin, water

restaurant.Service

customer.Drink

if customer has finished

customer.Payments -> visaCard, name, address, amount, restaurant :

paymentsResult

if paymentsResult send success

restaurant.Check -> visaCard, name, address, amount, visaCompany :

checkResult

if checkResult equals success

payment is finished

else

customer need to change the payment method

else if restaurant do not support visa

customer need to change the payment method

else

customer.Eat

customer.Drink

customer.Leave

restaurant.CleanUp