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1 Problem Statement: Order Pizza from Dominos Pizza
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3 • Behaviors and Key Objects:
4
5 - Internet/Website:
6 * Behavior: establishWebService, dominosResponse
7 * Data: URL
8
9 - Website User:
10 * Behavior: searchOrderMenu, orderPizza, selectPizzaCustomization, selectDeliveryAddressPinCode
11 * Data: User Password, User Email Address, User Phone, User Delivery Address
12
13 - Website Login:
14 * Behavior: logintoWebsite, createnewAccount, forgotPassword, validate(emailAddress, password)
15 * Data: Email Address, Password, Phone Number
16
17 - Pizza:
18 * Behavior: pizzaSize, pizzaPrice, pizzaCustomization, pizzaNumber
19 * Data: Crust, Topping, Size, Price, Quantity
20
21 - Order:
22 * Behavior: confirmOrder, cancelOrder, sharedeliveryStatus
23 * Data: Order ID, Order Summary, Payment Method, Delivery Address, Delivery Status
24
25 - Payment:
26 * Behavior: makePayment
27 * Data: Payment Method, Card Number
28
29 * Sequence of Flow – Invoke Objects with Behaviors:
30
31 User User; Website Dominos
32
33 //Validate if the entered URL is valid
34 IF url.isValid = true
35     boolean connection = dominos.establishWebService()
36     //Authenticate the user if credentials are valid
37     IF connection.isValid = true
38         boolean authenticated = user.logintoWebsite(url, emailAddress, userPassword)
39         dominosResponse response = dominos.validate(emailAddress, password)
40         //Dominos validates the right user and allows the user to proceed further
41         IF authenticated.isValid = true && dominos.validate = true
42             //Website uses browser to request user location
43             dominosResponse response = allowLocationDetection()
44             userResponse response = user.selectLocationManually() || user.allowLocationDetection()
45             //Selection of Dominos branch for the fastest delivery/pickup
46             dominosResponse response = requestUserToSelectDominosBranch()
47             userResponse response = user.selectDeliveryAddressPinCode() || user.selectPickUpLocation()
48             IF response.isValid = true
49                 dominosResponse response = dominos.showUserOrderMenu(pizza, sides, beverages, dessert)
50                 userResponse response = user.searchOrderMenu(pizza)
51                 userResponse response = user.selectPizzaCustomization(pizzaSize, pizzaCustomization)
52                 dominosResponse response = dominos.requestUserNumberOfPizza(pizzaNumber)
53                 userResponse response = user.selectNumberOfPizza(pizzaNumber)
54                 userResponse response = user.confirmOrder(pizza)
55                 IF user.confirmOrder = true
56                     //User applies the coupon code and Dominos verifies the code
57                     IF userResponse.applycouponcode = true && dominosResponse.couponvalid = true
58                         dominosResponse sumTotal = dominos.applydiscount(sumTotal-discount)
59                         userResponse response = user.provideContactDetails()
60                         userResponse response = user.reviewSumTotal(sumTotal)
61                         //User has to select the payment method; Card/Third Party
62                         userResponse response = user.selectPaymentMethod(Card) || user.selectPaymentMethod(thirdParty)
63                         userResponse response = user.makePayment(Card) || user.makePayment(thirdParty)
64                         dominosResponse response = dominos.validatePayment()
65                         IF dominos.validatePayment = true
66                             dominosResponse response = dominos.confirmOrder(orderSummary)
67                             dominosResponse response = dominos.sharedeliveryStatus(pickupStatus, deliveryEstimate)
68                         ELSE
69                             dominosResponse response = message.PaymentFailed(error)
70                             userResponse response = user.makePayment(Card || thirdParty) || userResponse response = user.cancelOrder()
71                         END
72                     ELSE
73                         dominosResponse response = message.invalidCouponCode(error)
74                     END
75                 ELSE
76                     userResponse response = user.cancelOrder()
77                 END
78             ELSE
79                 //User can choose to edit the purchase : Remove certain number of tickets or cancel the selection
80                 dominosResponse response = noAvailableDominosServiceinRegion(error)
81             END
82         ELSE
83             //User has the ability to create new account, recover forgotten password
84             dominosResponse response = user.createnewAccount || dominosResponse response = user.forgotPassword
85         END
86     ELSE
87
88     END
89 ELSE
90 END

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