UML Class Diagram

CustomizeAngryChicken
/+DataContext:object

CustomizeChiliCheeseFries
/+DataContext:object

CustomizeCowboyCoffee
/+DataContext:object

CustomizeCowpokeChili
/+DataContext:object

CustomizeDakotaDoubleBurger
/+DataContext:object

CustomizeJerkedSoda
/+DataContext:object

CustomizePecosPulledPork
/+DataContext:object

CustomizeSide
/+DataContext:object

CustomizeTexasTea
/+DataContext:object

CustomizeTexasTripleBurger
/+DataContext:object

CustomizeTrialBurger
/+DataContext:object

CustomizeWater
/+DataContext:object

Window

MainWindow

+MainWindow()
-OrderControl: OrderControl

ExtentionMethods

+<<extension>>FindAncestor<T>(dependencyObject:DependencyObject){T:DependencyObject}

OrderControl

-Container:Border
/+DataContext:Object

+OrderControl()
+SwapScreen(element:FrameworkElement)
+OnMenuItemSelectionButtonClicked(sender:object, e:RoutedEventArgs)
+OnCancelOrderButtonClicked(sender:object, e:RoutedEventArgs)
+OnCompleteOrderButtonClicked(sender:object, e:RoutedEventArgs)

MenuItemSelctionControl

+MenuItemSelectionControl()
- OnAddWaterButtonClicked(sender object, e:RoutedEventArgs)
- OnAddCowboyCoffeeButtonClicked(sender object, e:RoutedEventArgs)
- OnAddTexasTeaButtonClicked(sender object, e:RoutedEventArgs)
- OnAddJerkedSodaButtonClicked(sender object, e:RoutedEventArgs)
- OnAddBakedBeansButtonClicked(sender object, e:RoutedEventArgs)
- OnPanDeCampoButtonClicked(sender object, e:RoutedEventArgs)
- OnAddCornDogersButtonClicked(sender object, e:RoutedEventArgs)
- OnAddChiliCheeseFriesButtonClicked(sender object, e:RoutedEventArgs)
- OnAddCowpokeChiliButtonClicked(sender object, e:RoutedEventArgs)
- OnAddRustlersRibsButtonClicked(sender object, e:RoutedEventArgs)
- OnAddPecosPulledPorkButtonClicked(sender object, e:RoutedEventArgs)
- OnAddTrailBurgerButtonClicked(sender object, e:RoutedEventArgs)
- OnAddDakotaDoubleBurgerButtonClicked(sender object, e:RoutedEventArgs)
- OnAddTexasTripleBurgerButtonClicked(sender object, e:RoutedEventArgs)
- OnAddAngryChickenButtonClicked(sender object, e:RoutedEventArgs)

UserControl

OrderSummaryControl

/+DataContext:object

+ OrderSummaryControl()
-OnRemoveItem(sender: object, e:RoutedEventArgs)
- itemSelected(sender: object, e:RoutedEventArgs)

Register

+ CashDrawer:CashDrawer
+ ReceiptPrinter:ReceiptPrinter
+ OrderTotal:double
+OrderNumber:unit
Receipt:string

ReceiptPrinter

+ Print(receipt:string)

CardTerminal

+ ProcessTransaction(amount:double):ResultCode

TransactionControl

+ OnCreditButtonClicked(sender:object, e:RoutedEventArgs)
+ OnCashButtonClicked(sender:object, e:RoutedEventArgs)
+ OnCancelButtonClicked(sender:object, e:RoutedEventArgs)
+ ReceiptCreator():String

CoinControl

+ DenominationProperty:DependencyProperty
+ Denomination:Coins
+ QuantityProperty:DependencyProperty
+ Quantity:int

+ OnIncreaseClicked(sender:object, e:RoutedEventArgs)
+ OnDecreaseClicked(sender:object, e:RoutedEventArgs)

BillControl

+ DenominationProperty:DependencyProperty
+ Denomination:Coins
+ QuantityProperty:DependencyProperty
+ Quantity:int

+ OnIncreaseClicked(sender:object, e:RoutedEventArgs)
+ OnDecreaseClicked(sender:object, e:RoutedEventArgs)

CashRegisterControl

+ OnCompleteClicked(sender:object, e:RoutedEventArgs)

CashRegisterModelView

+ PropertyChanged:PropertyChangedEventHandler
- drawer:CashDrawer
+Totalvalue:double
+ CompleteButtonEnabled:bool
+ Change:double
+ Total:double
+ Ordernumber:unit
+ EnterPennies:int
+ EnterDimes:int
+ EnterNickels:int
+ EnterQuarters:int
+ EnterHalfDollars:int
+ EnterDollars:int
+ EnterOnes:int
+ EnterTwos:int
+ EnterFives:int
+ EnterTens:int
+ EnterTwenties:int
+ EnterFifties:int
+ EnterHundreds:int
+ EnterTotal:int
+ InvokePropertyChanged(denomination:string)
+ Pennies:int
+ Nickels:int
+ Dimes:int
+ Quarters:int
+HalfDollars:int
+Dollars:int
+ Ones:int
+ Twos:int
+ Fives:int
+ Tens: int
+ Twenties: int
+Fifties:int
+Hundreds:int

+ Complete()
+ ReturnChange():string
+ WhatsIn():string

CashDrawer

+ Pennies {readonly}
+ Nickels {readnly}
+ Quarters {readonly}
+ HalfDollars {readonly}
+ Dollars {readonly}
+ Ones {readonly}
+ Twos {readonly}
+ Fives {readonly}
+ Tens {readonly}
+ Twenties {readonly}
+ Fifties {readonly}
+ Hundreds {readonly}
+ TotalValue {readonly}

+ AddCoin(type:Coins, quantity:int)
+ AddBill(type:Bills, quantity:int)
+ RemoveCoin(type:Coins, quanitity:int)
+ RemoveBill(type:Bills, quantity:int)

<<exception>>
DrawerOverdrawException

Throws

<<enum>>
Bills

One,
Two,
Five,
Ten,
Twenty,
Fifty,
Hundred

<<enum>>
Coins

Penny,
Nickel,
Dime,
Quarter,
HalfDollar,
Dollar

<<enum>>
ResultCode

Success,
InsufficientFunds,
CancelledCard,
ReadError,
UnkownError

0..1 (multiplicity markers throughout composition relationships)
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