**TradeBroker solution design**

TradeBroker solution consists of the following four projects:

**TradeBroker** - a WPF windows application project that has two views:

* MainWindow is a window to provide trade order UI
* OrderBookView is a window to provide a pop-up for order book

and two view models:

* MainViewModel for MainWindow view
* OrderBookViewModel for OrderBookView

It also has a WCF service client OrderService, callback handler NotifyOrderHandler, RelayCommand for command binding and a number of value converters for data conversion in data binding:

* BooleanInverseConverter
* BooleanToBuySellConverter
* OrderToDetailConverter

**TradeOrderService** - a WCF service hosted on web and provides duplex service OrderService.svc with callback to notify new orders from multiple trade order clients. It uses OrderRepository as order data store.

**TradeBrokerUnitTest** – unit test project for TradeBroker

**TradeOrderServiceUnitTest** – unit test project for TradeOrderService