**Coding task**

The task is to create a WPF front-end, in C#, that displays simulated stock prices ticking (prices for each stock is provided, below):

* **Stock 1**, random stock prices between 240 and 270 and
* **Stock 2**, random stock prices between 180 and 210.

Prices should tick every second. Price moves up should have a green background, price moves down should have a red background and no price change should have a white background.

Double-clicking a stock should display the price change history by time.

**Sample screen layout for the history screen**

In a list view (tabular format) with the following columns, example layout:

|  |  |
| --- | --- |
| **Date/Time** | **Price** |
| 1 Oct 2015 13:05:21 | 240.00 |
| 1 Oct 2015 13:05:22 | 245.90 |
| … | … |

The columns should be formatted, as above.

Project Design

1. The project should be separated into Client module and Service module (Assemblies). Client module should be WPF

2. Client should only subscribe with a ticker i.e. Stock1, and the service will keep publishing prices for that ticker for as long as it is subscribed.

3. Service module will act as a provider and publish prices based on the price logic to the client.

4. Design the project in such a way that the client module can use different implementations of Service module without changing the client code (loading during runtime).