

A hand holding a black pen points towards a digital screen displaying a stock market chart. The chart features a blue area plot and a white line graph on a dark blue grid. At the top of the screen, a status bar shows the number '49.68' and a change of '-1.98' in red. The title 'Stock Score' is overlaid on the chart in large, bold, yellow and red letters.

Stock Score

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What is Stock Score and How it works?

Stock Website for judging the buyability of a stock

- How we look at a stock
 - Report a “Trader Sentiment Score”, we use Stock Twits sentiment data to get a look at trader mood on the specified stock
 - Offer several different technical indicators to judge the profitability of the stock
 - Offer ability to view several different competitors side by side to compare

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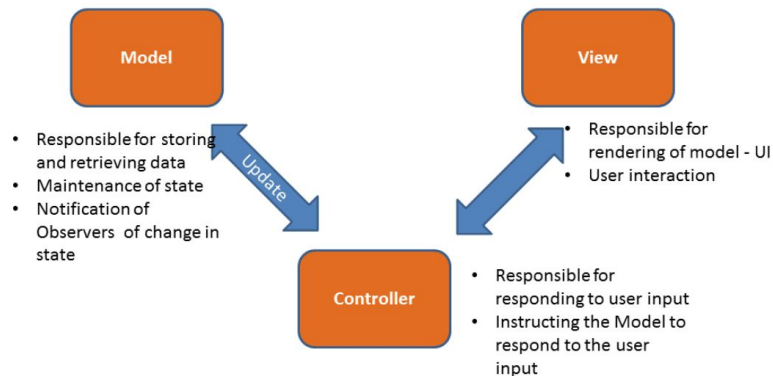
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Model-View-Controller Arch. Pattern

- Model: User, Stock, Favorite, Share
- View: search and stock page
- Controller: connects model to view

Model View Controller (MVC) Arch Passive Pattern



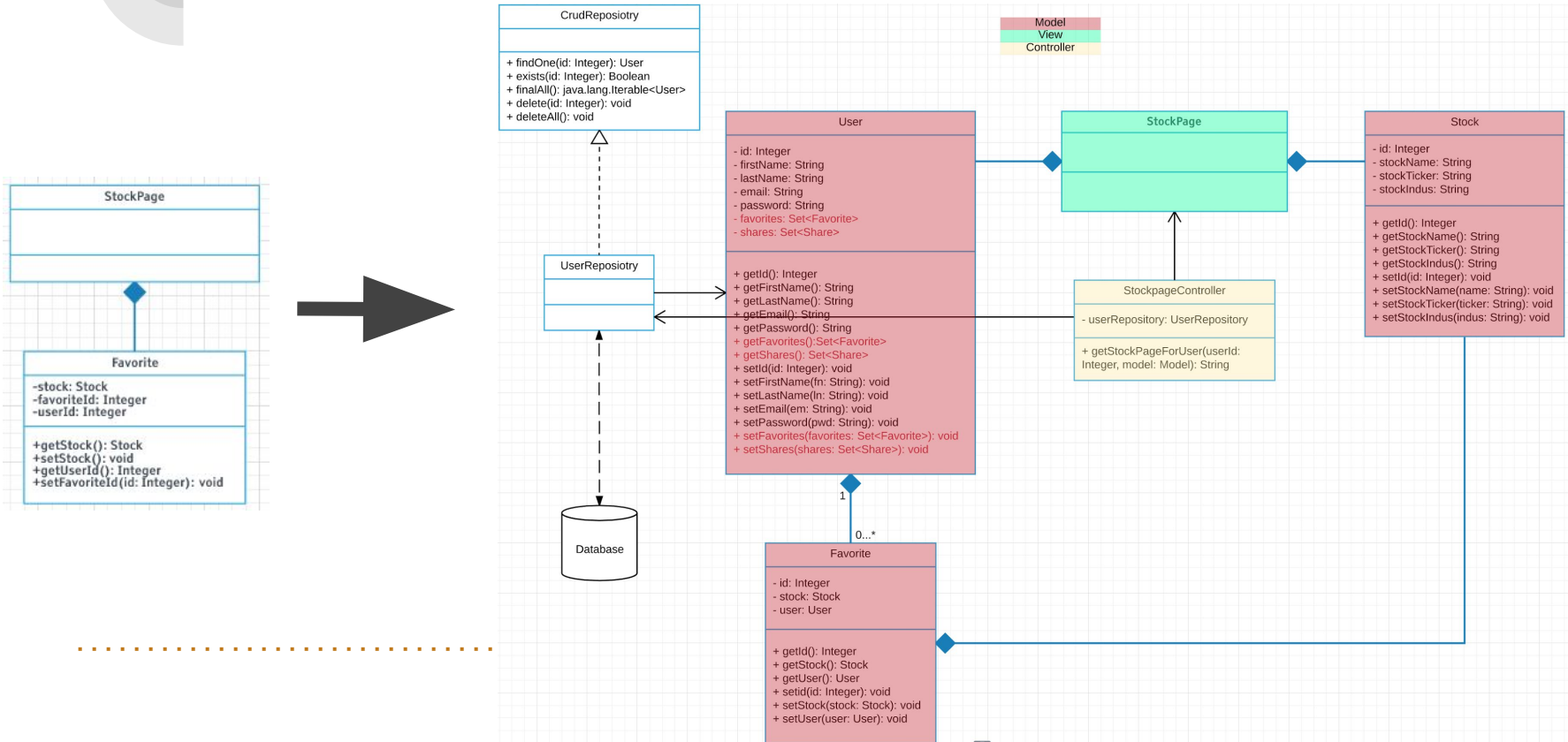
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UR-08: Storing a Favorite Stock





Factory Method Pattern

: Define an **abstract class** for creating an object, but let **subclasses** decide which object to **instantiate** by **factory method**

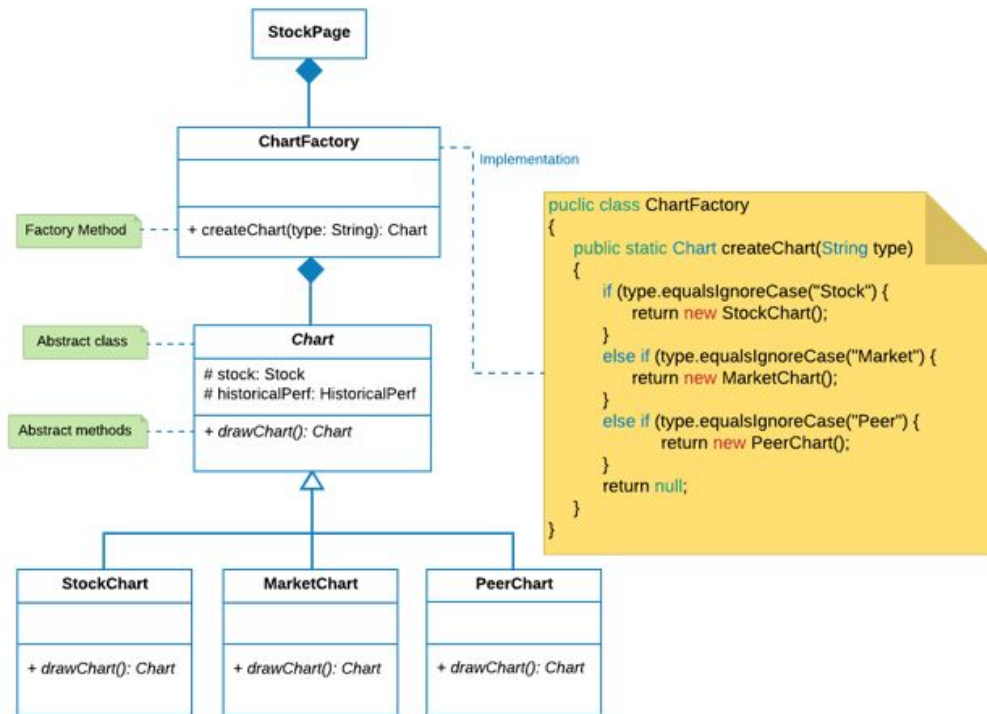
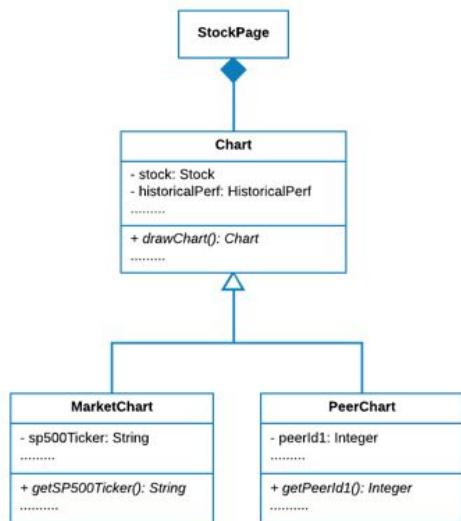
User Requirements	
ID	Requirement
UR-03	As a user, I want to see the historical price information for a stock over a given time period in a graphical representation.
UR-06	As a user, I want to see the historical price information for a stock with its top 3 industry competitors.
UR-07	As a user, I want to see the historical price information for a stock with one of the market benchmarks (Dow, Nasdaq, and S&P 500).

Factory Method Pattern

[After Applying Factory Pattern]

```
Public class StockPage
{
    public static void main (String[] args)
    {
        Chart sp500Chart = ChartFactory.createChart("Market");
    }
}
```

[Original Class Diagram]





Retrospective

What is interesting about your project that the rest of the class can learn from:

- The amount of free resources you can use
- There is always a way around
 - Couldn't access Stock Twits API, used web scraping

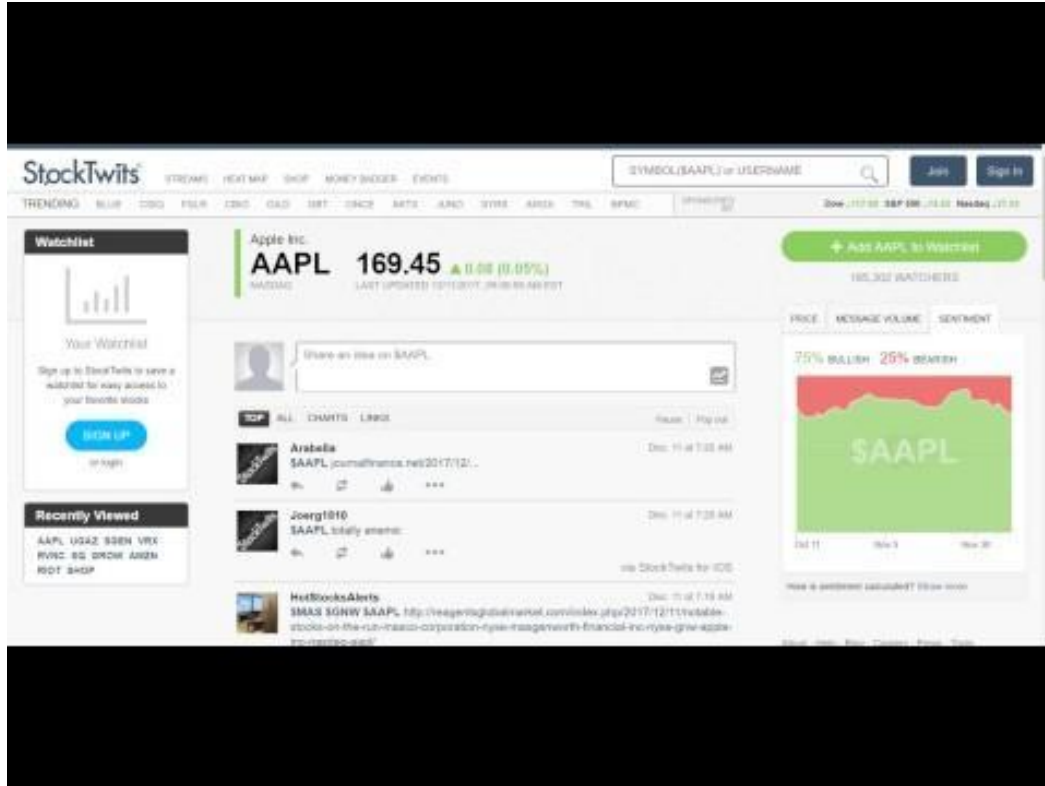
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Video Demo



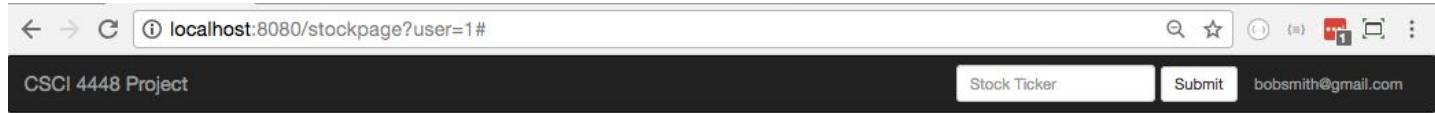
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Favorite and Share



*Make a better investment
decision with **Stock Score***

Favorites

Stock name	Ticker	Industry
NETFLIX INC COM	NFLX	Technology: Software & IT Services
VISA INC COM CL A	V	Technology : Software & IT Services
EXXON MOBIL CORP COM	XOM	Energy: Oil & Gas
APPLE INC COM	AAPL	Technology: Computers, Phones & Household Electronics

Shares

Stock name	Ticker	Email
EXXON MOBIL CORP COM	XOM	xaizing@gmail.com
APPLE INC COM	AAPL	beesweet@gmail.com