

TradingSim- A web based equities day trading simulator built in Adobe Flex and Java

Our client approached us with a vision to make day trading accessible to a larger audience. Their mission was to provide traders, beginners and advanced, a tool to refine their day trading skills in an environment which resembles a live market. Tradingsim partnered with Saven Technologies to create the fully featured equities day trading simulator, www.tradingsim.com which is completely web based and requires no downloads whatsoever.

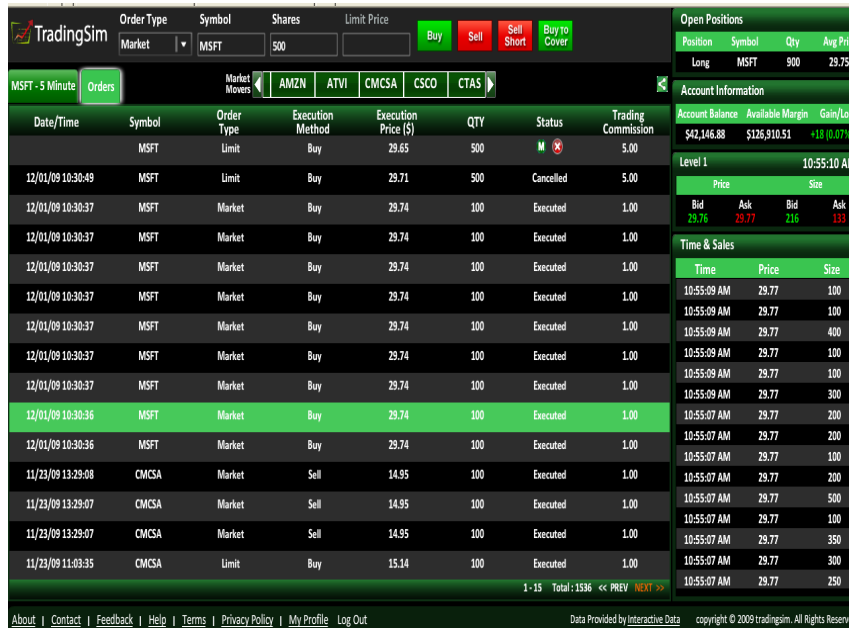
Tradingsim.com provides the ability to place buy & sell orders, become proficient in technical analysis, and get adjusted to the speed at which a day trader must make decisions.

TECHNOLOGY

- Adobe Flex 3.2 for web UI, MVC framework, Flex SDK, Action Script 3.0
- Back end processes in Java6
- BlazeDS for Tick Streaming, MXML
- Tick data from IDC (Interactive Data Corp)

FEATURES

- **Trading simulator streaming historical tick data in market replay mode**
 - Using predefined screening criteria which are based on price volatility and volume, the tradingsim application presents a random symbol (5000+ symbols from NASDAQ) to the user from one of the last 25 trading days. The screening logic aims to select the most volatile & liquid stocks from previous trading sessions.
 - Traders can focus on trading specific stocks, such as AAPL or GOOG, by trading consecutive trading sessions using the date selection tool.
 - Users can easily practice trading the most volatile stocks from the previous trading session by using the Market Movers ticker which streams the “stocks in play”.
 - Trading times are set to match the US Market hrs and all open trades are closed out at the last price at 4pm
 - Users have the option to reset & start trading a new symbol at any point with a few simple clicks of the mouse.
- **Analytical Tools**
 - Analytical Indicator tools include :SMA, EMA, Bollinger Bands, RSI, Stochastic, MACD etc.
 - Different chart types- Candlesticks, Line, Bar and HLOC
 - Time & Sales window displays latest trades with color coding (green for Up tick trades and Red for down tick trades)

The screenshot shows the TradingSim interface with a detailed order history table. The table has columns for Date/Time, Symbol, Order Type, Execution Method, Execution Price (\$), QTY, Status, and Trading Commission. The orders listed include a cancelled buy limit order for MSFT at 29.65 and several executed market buy orders for MSFT at 29.74. There are also sell orders for CMCSA at 14.95 and a buy limit order for CMCSA at 15.14. The interface also shows account information and a time & sales window.

Date/Time	Symbol	Order Type	Execution Method	Execution Price (\$)	QTY	Status	Trading Commission
12/01/09 10:30:49	MSFT	Limit	Buy	29.65	500	Cancelled	5.00
12/01/09 10:30:37	MSFT	Market	Buy	29.74	100	Executed	1.00
12/01/09 10:30:37	MSFT	Market	Buy	29.74	100	Executed	1.00
12/01/09 10:30:37	MSFT	Market	Buy	29.74	100	Executed	1.00
12/01/09 10:30:37	MSFT	Market	Buy	29.74	100	Executed	1.00
12/01/09 10:30:37	MSFT	Market	Buy	29.74	100	Executed	1.00
12/01/09 10:30:37	MSFT	Market	Buy	29.74	100	Executed	1.00
12/01/09 10:30:36	MSFT	Market	Buy	29.74	100	Executed	1.00
12/01/09 10:30:36	MSFT	Market	Buy	29.74	100	Executed	1.00
11/23/09 13:29:08	CMCSA	Market	Sell	14.95	100	Executed	1.00
11/23/09 13:29:07	CMCSA	Market	Sell	14.95	100	Executed	1.00
11/23/09 13:29:07	CMCSA	Market	Sell	14.95	100	Executed	1.00
11/23/09 11:03:35	CMCSA	Limit	Buy	15.14	100	Executed	1.00

- Level 1 data window to show the best bid and best ask in the market.
- **Drawing Tools**
 - Crosshair, Pan, Trend line, Fibonacci Retracements and Andrew's pitchfork
- **User Controls Within Trading environment**
 - Configure bar time frame: 1 minute, 5 minute, 15 minute, 30 minute, and 60 minute charts
 - Change the scaling of a chart from Arithmetic to Logarithmic data display
 - Real time play or fast forward with speed controls – 1x= 20 sec, 2x= 1 min and 3x= 2 min
- **Order Entry & Account Management Tools**
 - Order entry system with order types – Market, Limit, Stop Market and Stop Limit.
 - Intuitive buttons to Buy, Sell, Sell Short and Cover Short positions.
 - Open Long/Short positions are shown in the open position table and Account Summary is shown in the Account information table.
 - Open positions and orders are labeled on the chart to provide traders with a visual illustration of their trading activity
 - Orders history is provided with a summary of all executed and cancelled trades; user can execute open trades at Market or cancel any open orders,
 - Day trading margin built in to 4X margin; account reset once account balance falls below 25k.
- **DATA RESOURCE and MANAGEMENT**
 - Tick data Processing Module: Java process runs in the background on the server machine downloading all the tick data from IDC ftp site every day at a scheduled time. Processes all the ticks for the 5000+ ticker symbols and lays out clean data for easy retrieval by the web application.

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