Empowered Forex Day Trading

Student: Andres Chavez
Mentor: Masoud Sadjadi, Florida International University
Instructor/Faculty: Masoud Sadjadi, Florida International University

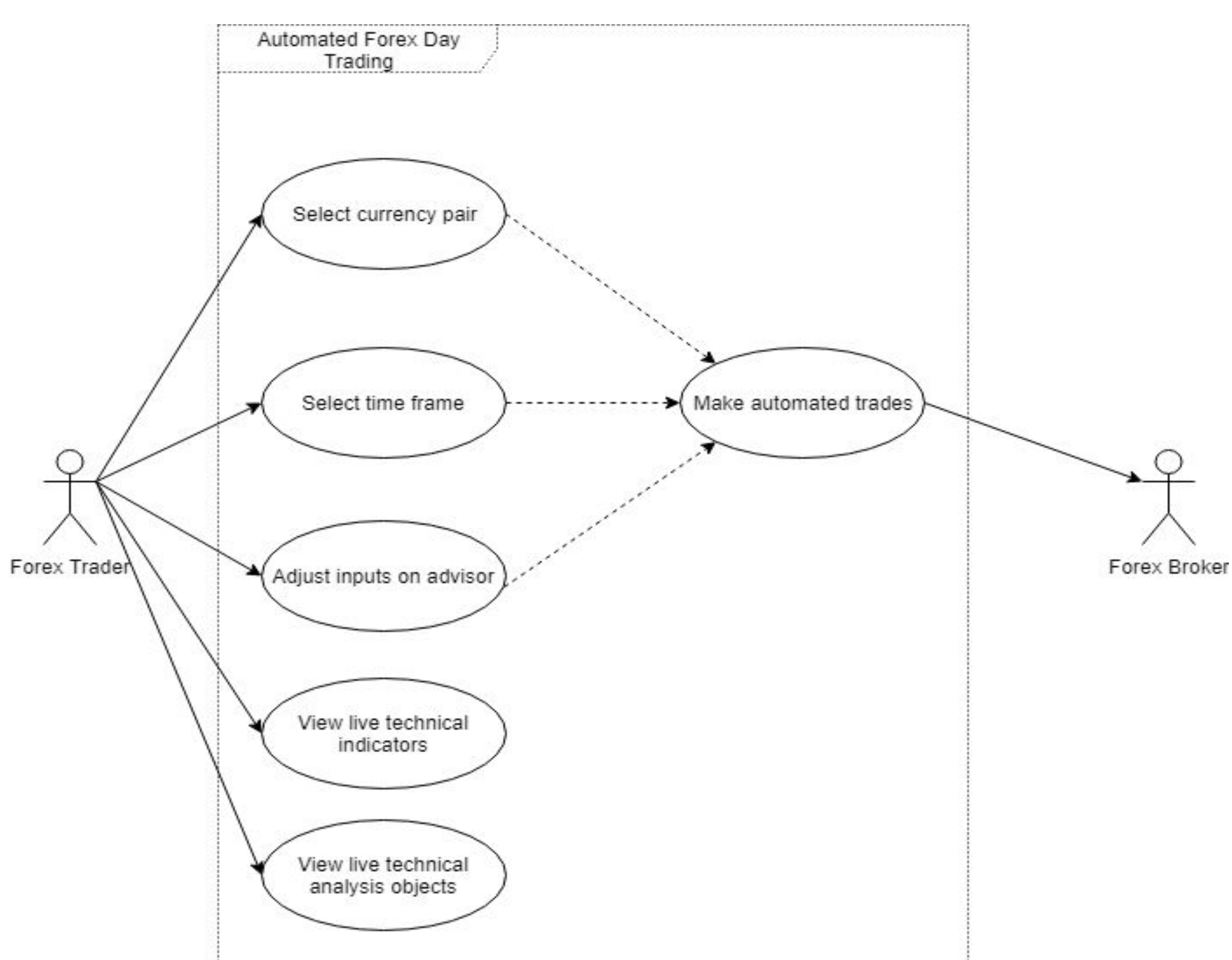
Acknowledgement: Thank you to Gustavo Gonzalez, Dr. Masoud Sadjadi, and Dr. Gordon Barnett

FIU Computing & Information Sciences

Problem

- Forex trading has an average daily volume of **$5.1 trillion**.
- Trading currencies productively requires an understanding of **economic fundamentals** and **indicators**.
- Day trading is tedious and difficult to analyze in a market that is open **24 hours a day, 5 days a week**.

Requirements



Summary

- Offers traders a profitable **automated** day trading algorithm.
- Analyzes the forex market in order to open and close positions based off of **calculated probability**.
- Traders receive information from three basic indicators in order to view the actions of the advisor in real-time.

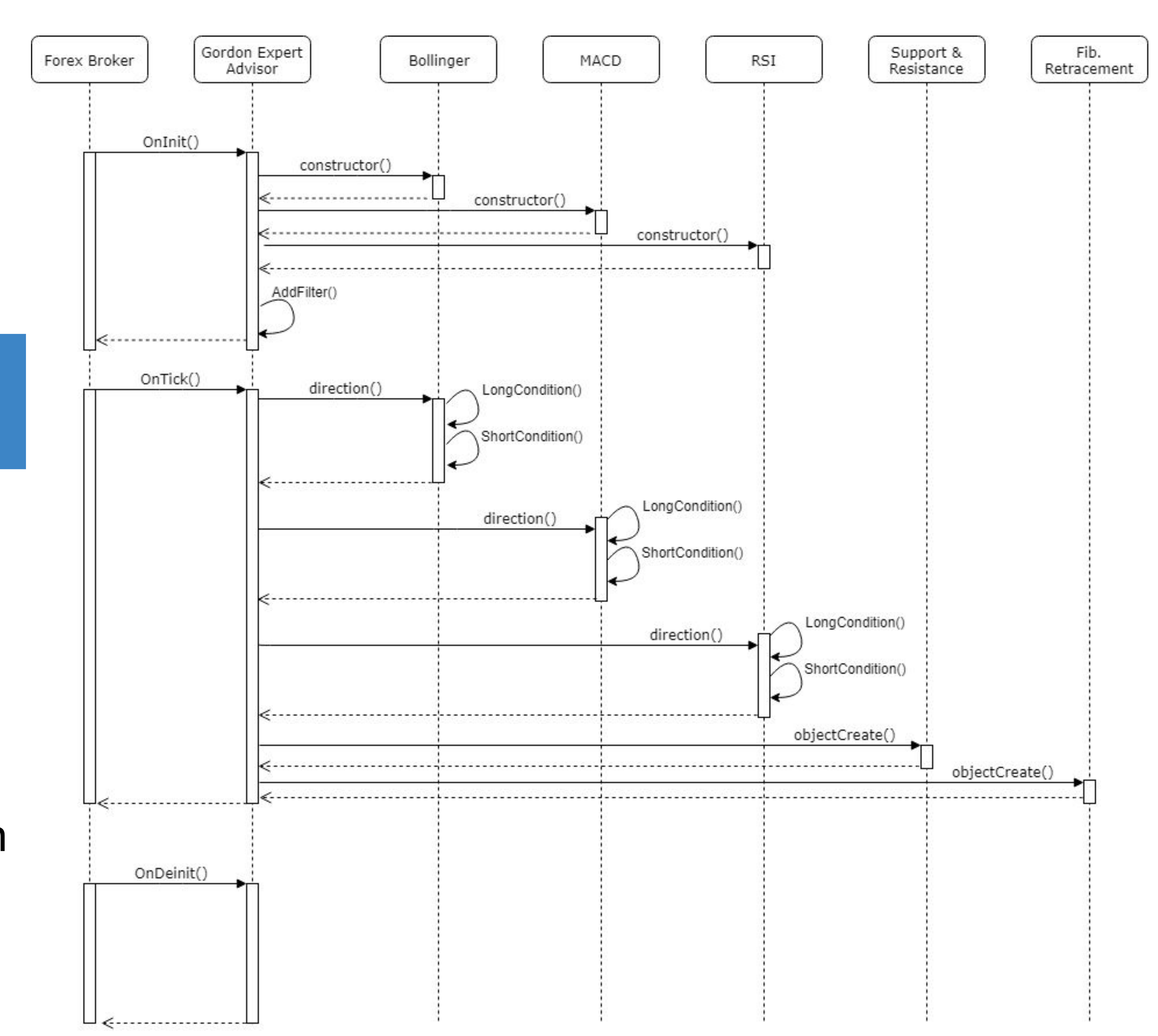
Total Net Profit	331.80
Gross Profit	451.80
Gross Loss	-120.00

Total Net Profit	94.20
Gross Profit	154.80
Gross Loss	-60.60

Results of MT5 Strategy Tester using optimized Stop Loss and Take Profit values

Results of same date using inputs that cause open positions to close sooner

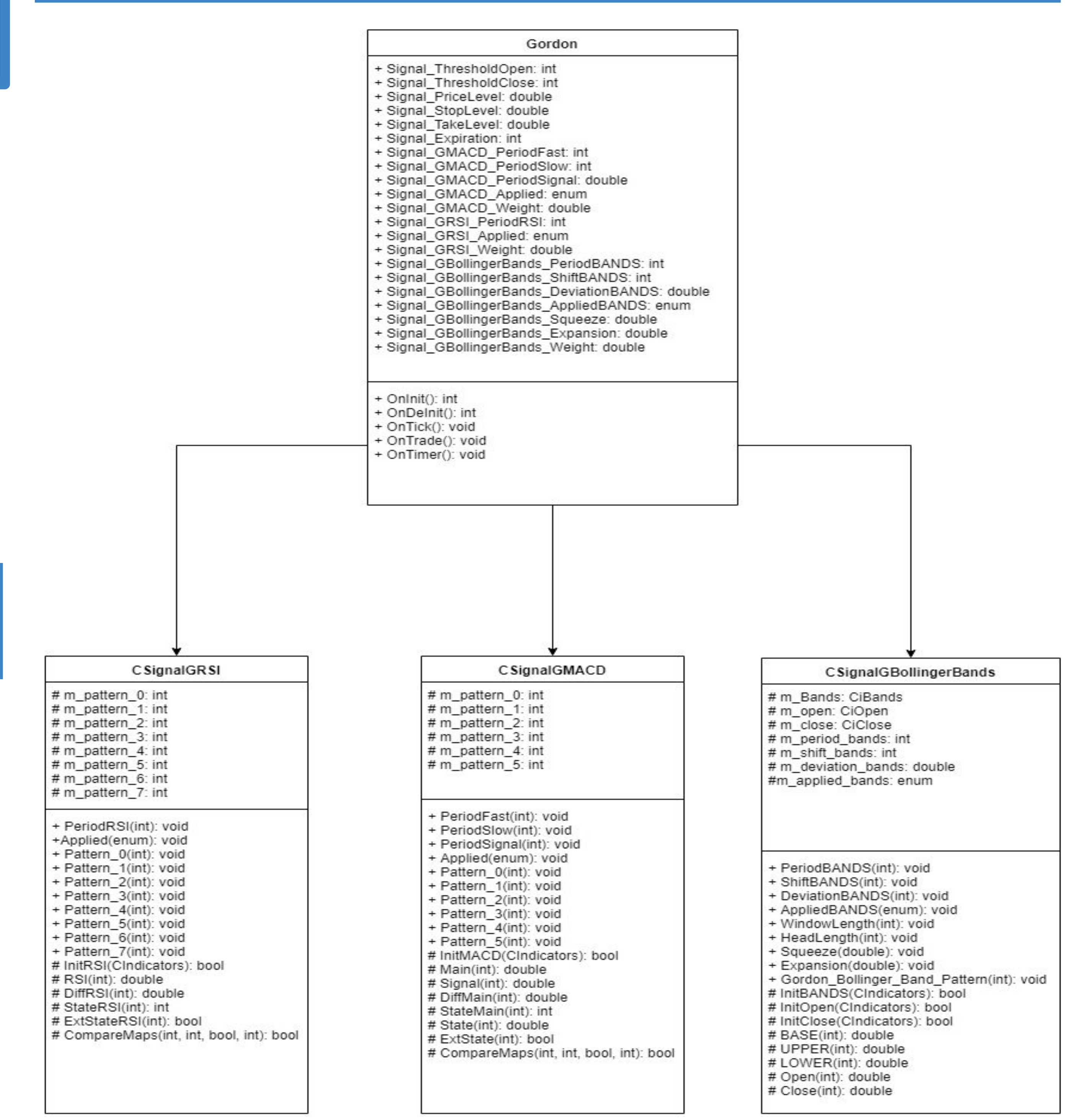
Implementation



System Design

- A trader authorizes the use of automated trading on the MetaTrader 5 Platform
- The trader selects the expert advisor which will be responsible for sending requests to open/close positions to the forex broker.
- The forex broker's servers update the local system with the most current forex data which is in turn used for technical analysis.

Class Design



Current System

- MetaTrader 5 expert advisor ready to perform automated trades.
- The expert advisor uses a variety of technical analysis tools to calculate trade decisions