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Project Plan

Code Name: [WSBAuto]

Version 1.0

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# Project Plan

## Project Components

* Quantitative Analysis
  + Fundamental Analysis (Financial Models, Company Valuation)
  + <https://finbox.io/premium>
  + Comparison between competitors
* Qualitative Analysis
  + Market/News Analysis for potential catalysts, stock market news in general.
  + Stock sentiment Analysis
  + Industry News, Industry Direction
  + Competitive Analysis
  + Natural Language Processing (ML)
  + Data crawler on news sites
* Algo-Trading Strategies
  + Investopedia Simulator API
  + Hooked up to a Discount Broker API (Questrade)
  + Possible hooked to Coinbase for CryptoCurrency trade
  + Multiple Trading Strategies
  + Python for Finance:
    - <https://www.reddit.com/r/algotrading/top/>
    - <https://github.com/timkpaine/algo-coin>

## Project Functionality

* Run automated quantitative analysis and qualitative analysis on a selected stock in the US/CAD markets.
* GUI to display information and determine quantitative and qualitative analysis on the selected stock.
* Extra: Comparison between selected stock and stocks in similar industries, recommendations.
* Recommendations on strategies for a stock (Long, Short, etc.) based on industry news, upcoming catalyst, potential upside in the long term or the short term.
* Recommendations for algorithms to use for a stock and trading specifications (Entry Price, Exit Price, Stop Loss, amount of $, etc.)

## Project Resources

* .Miniconda3
* Quantopian