



**DO NOT CONTINUE IF YOU ARE UNSURE ABOUT REQUIREMENTS
WE ONLY WANT PROFFESIONALS!**

1. Do you have the skills to calculate very complex mathematical equations regarding statistics and historical data?
2. Have you worked with Python before and know how to build effective UX applications?
3. Do you have good knowledge of Machine Learning/AI/Neural Networks/LSTM/GRU and much more?
4. Do you have good knowledge about trading and trading strategies, markets, pricebars, patterns and indicators?
5. Do you have references of web applications you have produced before?

If NO or unsure on any question 1-5: Thank you for your time and interest but this is not the project for you.

If YES then you are the one we are looking for – Welcome to this project presentation and please continue!

EPISEC.se
/Johan Graf CEO

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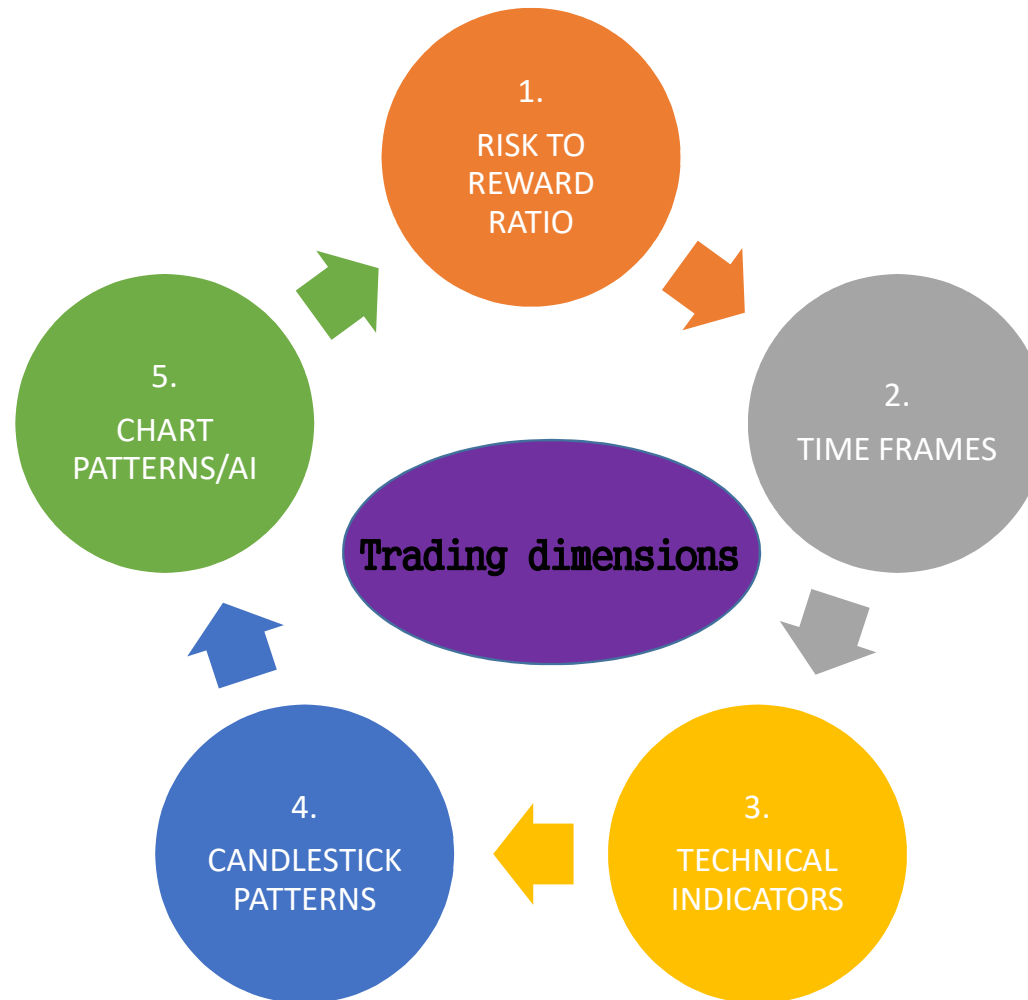
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Web application – Trading odds manager

Purpose and project vision:

Trading Odds Manager is a online trading tool and website that calculates the odds to win a financial trade in real time. This is done by predictions using the different trading dimensions. This application is only one of many applications/tools a trader uses before making a decision. Nothing is by any means new in this application and vision except it illustrates the market from different dimensions and predicts the outcome of the trade.
All done super easy, fast and user friendly!



About us:

EPISEC.se is a Swedish Company that works with Risk & Security applications for end users and organizations.

1. RISK TO REWARD DIMENSION / 2. TIME FRAMES – BASED ON BROAD HISTORICAL DATA:

For any given asset there is an optimal risk to reward setting for each time frame (1 or 5 min etc). But what is it?

Video on this topic: <https://www.youtube.com/watch?v=IHhtVfeoCdQ> &
<https://www.youtube.com/watch?v=b41bnRnSLgs>

Basics:

Trading Gold for instance on a 15 min chart. If you place a random trade what would the historical optimal target and stopp loss ratio be for a sell or buy order? The historical data will tell us what would be the best bet considering risk to reward ratio!

Example:

If we would bet that Gold index will go up in price we place a buy/long order.

The rule would be to close the trade when either your target is hit at lets say +250 USD or +2.21% (example only)

Or the trade goes against you and your stopp loss is hit at lets say -125 USD or -1.11% (example only)

Your assignment:

Create a calculation application that will answer the following question:

What is the best risk to reward ratio for the asset and time frame you are about to trade - based on historical data?

The app will calculate in real time best buy and sell risk to reward strategy and win ratio for the asset and time frame.

3. TECHNICAL INDICATORS DIMENSION – BASED ON BROAD HISTORICAL DATA:

For any given asset there is an optimal settings for a technical indicator for each time frame. **But what is it?**

See this report to get an idea of what type of technical indicator optimization we are looking for:

<http://etfhq.com/blog/2013/01/15/golden-cross-which-is-the-best/>

Basics:

Most of the trading technical indicator has settings to customize the indicator. That is because you can optimize it for the asset volatility and time frame you wish to use.

See this general technical analysis overview: http://www.mrao.cam.ac.uk/~mph/Technical_Analysis.pdf

Example:

Moving Average - MA or versions of it like Exponential Moving Average use past data to plot a line on the chart.

You can get trading signals from many techniques using MA. One common practice it to use two different MA-pair to get buy or sell signals crosses. But which setting is the most profitable?

Your assignment:

Create a calculation application for indicators (**in this assignment up to 66 different indicators**) that will answer the following question: When trading an asset what is the most profitable setting for this technical indicator and time frame - based on historical data?

Important Note: Some indicators have more than one way to trigger a signal for buy/sell! (all must be considered/tested)

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3. TECHNICAL INDICATORS DIMENSION – 66 TYPES:

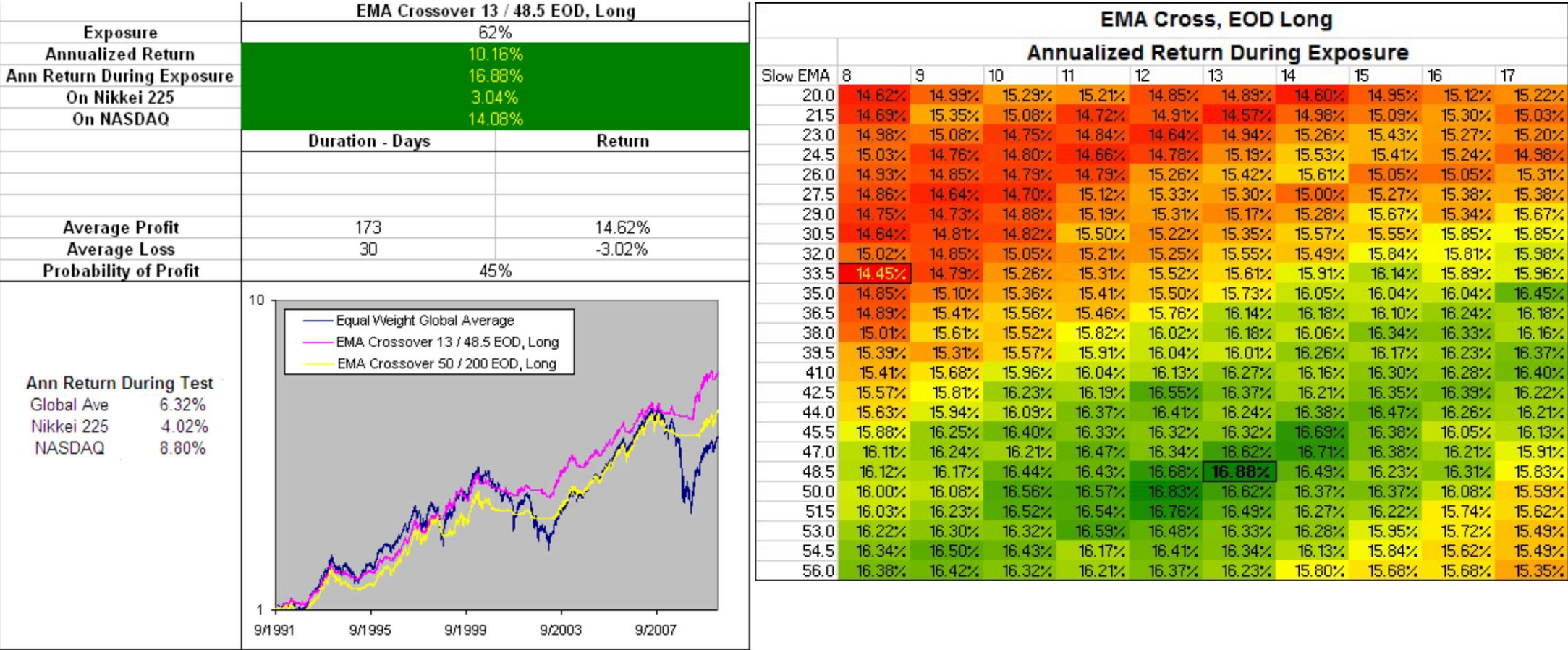
| |
|-----------------------------------|
| Accumulation/Distribution |
| Advance/Decline |
| Arnaud legoux Moving Average |
| Aroon |
| Average Directional Index |
| Average True Range |
| Awesome Oscillator |
| Balance of Power |
| Bollinger Bands % B |
| Bollinger Bands Width |
| Chaikin Money Flow |
| Chaikin Oscillator |
| Chande Kroll Stop |
| Chande Momentum Oscillator |
| Choppiness Index |
| Commodity Channel Index |
| Coppock Curve |
| Correlation Coeff |
| Directional Movement Index |
| Donchian Channels |
| Double Exponential Moving Avearge |
| Ease of Movement |
| Elders Force Index |
| Envelope |
| Fisher Transform |
| Historical Volatility |
| Hull MA |
| Ichimoku Clould |
| Keltner Channels |
| Klinger Oscillator |
| Know Sure Thing |
| Least Squares Moving Average |
| Linear Regression Curve |

| |
|----------------------------------|
| MA Cross |
| MACD |
| Mass Index |
| McGinley Dynamic |
| Momentum |
| Money Flow |
| Moving Average |
| Moving Average Exponential |
| Moving Average Weighted |
| Net Volume |
| On Balance Volume |
| Parabolic SAR |
| Price Oscillator |
| Ptice Volume Trend |
| Relative Strength Index |
| Relative Vigor Index |
| Relative Volatility Index |
| SMI Ergodic Indicator/Oscillator |
| Smoothed Moving Average |
| Stochastic |
| Stochastic RSI |
| TRIX |
| Triple EMA |
| True Strength Indicator |
| Ultimate Oscillator |
| VWMA |
| Volume |
| Volume Oscillator |
| Vortex Indicator |
| Williams % R |
| Williams Alligator |
| Williams Fractal |
| ZigZag |

Continue next page:

3. TECHNICAL INDICATORS DIMENSION – BASED ON BROAD HISTORICAL DATA:

The app will calculate best profitable setting for buy and sell for the asset and time frame you backtest.
The result could be presented to look something like this for Daily time frame:


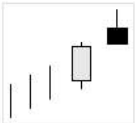

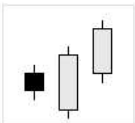






4. CANDLESTICK/PRICE BAR PATTERNS INDICATORS DIMENSION – BASED ON BROAD HISTORICAL DATA:

We know price action tends to follow specific patterns. There are about 65 main candlestick patterns we must backtest.
What candlestick pattern is the most effective, can we rank them?

See this page for more info on types of candlestick patterns:
<https://www.candlesticker.com/BullishPatterns.aspx?lang=en>
<https://www.candlesticker.com/BearishPatterns.aspx?lang=en>

Investing.com has a very nice presentation!

| Candlestick Patterns | | | | |
|---|-------------|---|-------------|--------------------|
| Pattern | Timeframe | Reliability | Candles Ago | Candle Time |
| Completed Patterns | | | | |
|  Shooting Star | 5H | ★ ★ ★ | 1 | Aug 28, 2018 12:00 |
|  | Indication | Bearish reversal | | |
| | Reliability | Low | | |
| | Description | During an uptrend, a gap up occurs. It rallies to a new high then loses strength and closes near its low: a bearish change of momentum. Confirmation of the trend reversal would be an opening below the body of the Shooting Star on the next trading candle. It is not a major reversal signal as the evening star. Ideally, real body would gap away from previous body. | | |
|  Three Outside Up | 30 | ★ ★ ★ | 2 | Aug 28, 2018 17:30 |
|  | Indication | Bullish reversal | | |
| | Reliability | High | | |
| | Description | This pattern is a more reliable addition to the standard Engulfing pattern. A bullish Engulfing pattern occurs in the first two candles. The third candlestick is confirmation of the bullish trend reversal. | | |
|  Shooting Star | 15 | ★ ★ ★ | 2 | Aug 28, 2018 18:15 |
|  Doji Star Bearish | 1W | ★ ★ ★ | 3 | Aug 05, 2018 |
|  Bullish Engulfing | 30 | ★ ★ ★ | 3 | Aug 28, 2018 17:00 |
|  Hanging Man | 15 | ★ ★ ★ | 2 | Aug 28, 2018 18:00 |

Your assignment:
Create a calculation application that calculate the win ratio and optimal risk to reward setting for that candlestick pattern and time frame and asset - based on historical data.

5. PART 1: CHART PATTERNS DIMENSION – BASED ON BROAD HISTORICAL DATA:

We know price action tends to follow specific chart patterns. There are about 10 patterns or 20 if inversed we must backtest. What chart patterns is the most effective, can we rank them?



See link for more info:
<https://optionalpha.com/13-stock-chart-patterns-that-you-cant-afford-to-forget-10585.html>

Your assignment:
Create a calculation application that calculate the win ratio and optimal risk to reward setting for that chart pattern and time frame and asset. Based on historical data.

5. PART 2: CHART PATTERNS DIMENSION MACHINE LEARNING – BASED ON BROAD HISTORICAL DATA:

Does price action/charts have memories, can we predict the market better than 65% into the future based on historical data?

Your assignment:

Create an AI/LSTM/Machine learning or other prediction model using as many inputs as necessary to predict future of chart with an accuracy of 65% or more. **This is a trial and error assignment and will require deep knowledge in trading and machine learning. This is not a task for an “average programmer”!**

See video and pdf for inspiration

<https://www.youtube.com/watch?v=ftMq5ps503w>

<https://arxiv.org/pdf/1808.03867.pdf>

<https://www.kaggle.com/raoulma/ny-stock-price-prediction-rnn-lstm-gru>

Your assignment:

Create prediction models that in realtime predicts future movements with atleast 65% accuracy/win rate!

Store them in our AI-library

The steps to AI models could be something like:

numpy — used to easily make matrix calculations and mathematic manipulations which are essential for any ML model

pandas — used to define a nice data structure for your training data

sklearn — a tool used for data analysis (for example normalizing or clustering data)

matplotlib — used to display our data

tensorflow — Google’s open source library used for building ML graphs in an easy and elegant way

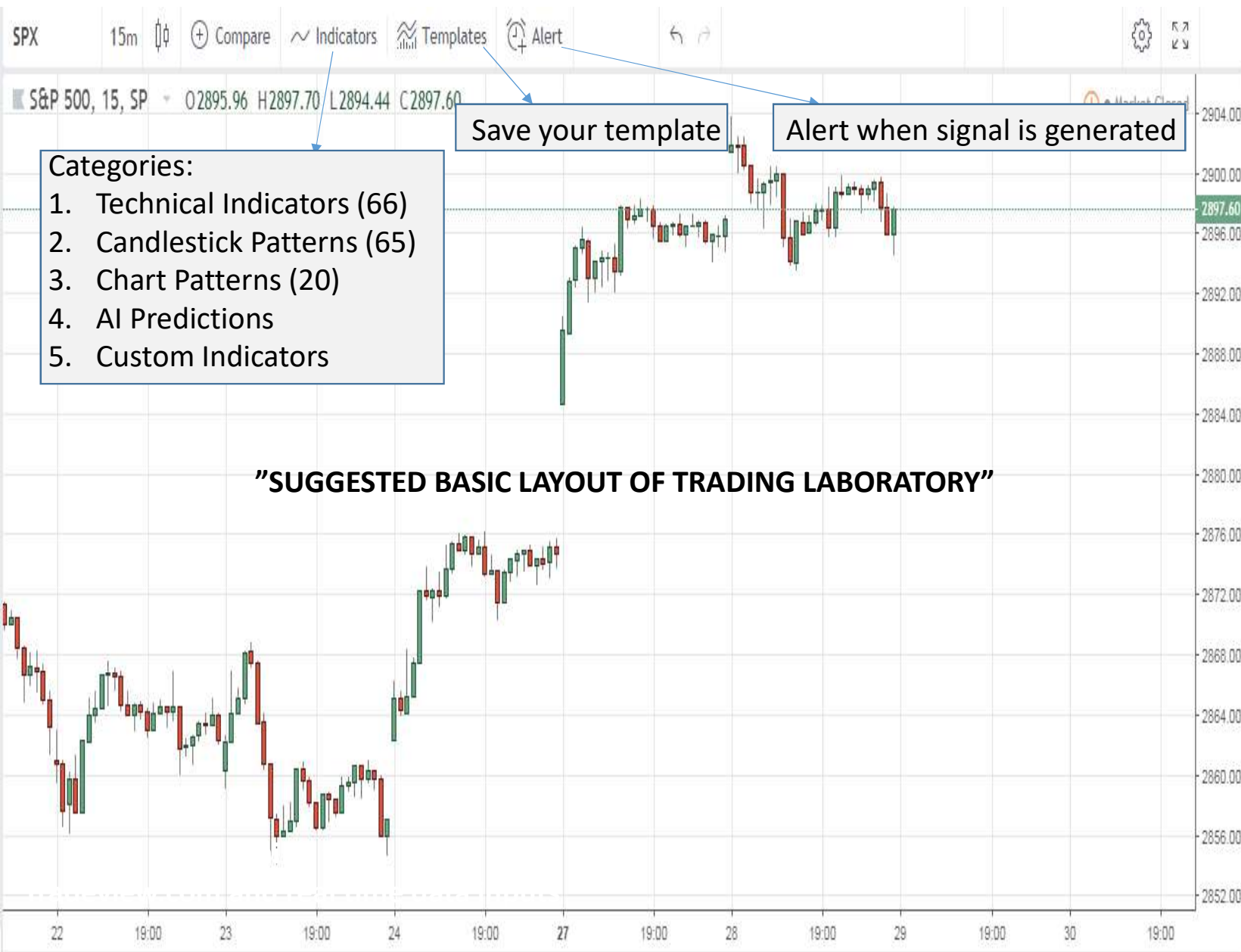


TRADING LABORATORY

CORE VALUE OF THIS SERVICE IS THIS FEATURE : TRADING LABORATORY!

BASIC LAYOUT REQUIREMENTS

- NEEDS HISTORICAL AND LIVE DATA FROM SUPPLIERS LIKE YAHOO FINANCE ETC (PLEASE SUGGEST AND ADD MORE)
- PLOT GRAPH LIKE TRADEVIEW.COM OR SIMILAR WITH: CANDLES, LINE, BARS, RENKO OR HEIKIN ASHI -STYLE GRAPH
- LIBRARY FOR: **66** TECHNICAL INDICATORS/ **65** CANDLESTICK PATTERNS/ **20** CHART PATTERNS
- LIBRARY WILL ALSO CONSIST OF MACHINE LEARNING MODELS AND OTHER CUSTOM TRADING MODELS/IDEAS



PERFORMANCE DATA

BASED ON HISTORICAL DATA

Specify date from: Year-month-day
(If not chosen max data is applied)

Best risk to reward setting for:

Buy 1:121 / Win Ratio 51 %

Sell 1.131 / Win Ratio 49 %

Max consecutive win streak: 12 times

Max consecutive loss streak: 11 times

Signal History

| Date | Price | Signal | |
|------------|---------|--------|---|
| 08-31-2018 | 25,4700 | BUY | |
| 08-27-2018 | 25,4000 | SELL | x |
| 08-08-2018 | 25,2350 | BUY | ✓ |
| 07-31-2018 | 25,1200 | SHORT | x |
| 07-27-2018 | 25,2350 | BUY | x |
| 07-24-2018 | 25,2050 | SHORT | x |
| 07-19-2018 | 25,1800 | BUY | ✓ |
| 07-11-2018 | 25,2000 | SELL | ✓ |
| 07-10-2018 | 25,5800 | BUY | x |
| 06-29-2018 | 25,4300 | SELL | x |
| 06-04-2018 | 25,2900 | BUY | ✓ |
| 05-31-2018 | 25,1400 | SHORT | x |
| 05-22-2018 | 25,0700 | BUY | ✓ |
| 04-19-2018 | 25,2500 | SHORT | ✓ |
| 04-13-2018 | 25,2800 | BUY | x |
| 04-11-2018 | 25,2814 | SELL | ✓ |
| 03-27-2018 | 25,3425 | BUY | x |
| 03-23-2018 | 25,3400 | SELL | x |
| 03-14-2018 | 25,4150 | BUY | x |
| 03-12-2018 | 25,4300 | SELL | ✓ |
| 02-06-2018 | 24,8300 | BUY | ✓ |
| 01-26-2018 | 25,2200 | SHORT | ✓ |
| 01-22-2018 | 25,1900 | BUY | ✓ |
| 01-12-2018 | 25,2100 | SHORT | ✓ |





Step 3: Add filter from Indicators

Lets add a technical indicator to filter the trades. Lets say we add **MACD**.

(Example not fact) - We have defined that there are 3 ways this indicator can generate buy/sell signals. (Example not fact)

We pick one and add as filter. The application now runs back tests to define the optimal settings for this indicator and strategy.

Lets say it is: **22,26** and **9**
To achieve best performance

Will this filter improve our
*Performance data? Yes or no?





| EMA Cross, EOD Long | | | | | | | | | | | | | | | | | |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|
| Annualized Return During Exposure | | | | | | | | | | | | | | | | | |
| Slow EMA | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | | | | | | |
| 20.0 | 14.62% | 14.99% | 15.29% | 15.21% | 14.85% | 14.89% | 14.60% | 14.95% | 15.12% | 15.22% | | | | | | | |
| 21.5 | 14.69% | 15.35% | 15.08% | 14.72% | 14.91% | 14.57% | 14.98% | 15.09% | 15.30% | 15.03% | | | | | | | |
| 23.0 | 14.98% | 15.08% | 14.75% | 14.84% | 14.64% | 14.94% | 15.26% | 15.43% | 15.27% | 15.20% | | | | | | | |
| 24.5 | 15.03% | 14.76% | 14.80% | 14.66% | 14.78% | 15.19% | 15.53% | 15.41% | 15.24% | 14.98% | | | | | | | |
| 26.0 | 14.93% | 14.85% | 14.79% | 14.79% | 15.26% | 15.42% | 15.61% | 15.05% | 15.05% | 15.31% | | | | | | | |
| 27.5 | 14.86% | 14.64% | 14.70% | 15.12% | 15.33% | 15.30% | 15.00% | 15.27% | 15.38% | 15.38% | | | | | | | |
| 29.0 | 14.75% | 14.73% | 14.88% | 15.19% | 15.31% | 15.17% | 15.28% | 15.67% | 15.34% | 15.67% | | | | | | | |
| 30.5 | 14.64% | 14.81% | 14.82% | 15.50% | 15.22% | 15.35% | 15.57% | 15.55% | 15.85% | 15.85% | | | | | | | |
| 32.0 | 15.02% | 14.85% | 15.05% | 15.21% | 15.25% | 15.55% | 15.49% | 15.84% | 15.81% | 15.98% | | | | | | | |
| 33.5 | 14.45% | 14.79% | 15.26% | 15.31% | 15.52% | 15.61% | 15.91% | 16.14% | 15.89% | 15.96% | | | | | | | |
| 35.0 | 14.85% | 15.10% | 15.36% | 15.41% | 15.50% | 15.73% | 16.05% | 16.04% | 16.04% | 16.45% | | | | | | | |
| 36.5 | 14.89% | 15.41% | 15.56% | 15.46% | 15.76% | 16.14% | 16.18% | 16.10% | 16.24% | 16.18% | | | | | | | |
| 38.0 | 15.01% | 15.61% | 15.52% | 15.82% | 16.02% | 16.18% | 16.06% | 16.34% | 16.33% | 16.16% | | | | | | | |
| 39.5 | 15.39% | 15.31% | 15.57% | 15.91% | 16.04% | 16.01% | 16.26% | 16.17% | 16.23% | 16.37% | | | | | | | |
| 41.0 | 15.41% | 15.68% | 15.96% | 16.04% | 16.13% | 16.27% | 16.16% | 16.30% | 16.28% | 16.40% | | | | | | | |
| 42.5 | 15.57% | 15.81% | 16.23% | 16.19% | 16.55% | 16.37% | 16.21% | 16.35% | 16.39% | 16.22% | | | | | | | |
| 44.0 | 15.63% | 15.94% | 16.09% | 16.37% | 16.41% | 16.24% | 16.38% | 16.47% | 16.26% | 16.21% | | | | | | | |
| 45.5 | 15.88% | 16.25% | 16.40% | 16.33% | 16.32% | 16.32% | 16.69% | 16.38% | 16.05% | 16.13% | | | | | | | |
| 47.0 | 16.11% | 16.24% | 16.21% | 16.47% | 16.34% | 16.62% | 16.71% | 16.38% | 16.21% | 15.91% | | | | | | | |
| 48.5 | 16.12% | 16.17% | 16.44% | 16.43% | 16.68% | 16.88% | 16.49% | 16.23% | 16.31% | 15.83% | | | | | | | |
| 50.0 | 16.00% | 16.08% | 16.56% | 16.57% | 16.83% | 16.62% | 16.37% | 16.37% | 16.08% | 15.59% | | | | | | | |
| 51.5 | 16.03% | 16.23% | 16.52% | 16.54% | 16.76% | 16.49% | 16.27% | 16.22% | 15.74% | 15.62% | | | | | | | |
| 53.0 | 16.22% | 16.30% | 16.32% | 16.59% | 16.48% | 16.33% | 16.28% | 15.95% | 15.72% | 15.49% | | | | | | | |
| 54.5 | 16.34% | 16.50% | 16.43% | 16.17% | 16.41% | 16.34% | 16.13% | 15.84% | 15.62% | 15.49% | | | | | | | |
| 56.0 | 16.38% | 16.42% | 16.32% | 16.21% | 16.37% | 16.23% | 15.80% | 15.68% | 15.68% | 15.35% | | | | | | | |

Step 4: Add another filter.

Lets add another technical indicator to filter the trades even further. Lets say we add **MA Cross**.
 (Example not fact) - We have defined that there are 2 ways this MA Cross indicator can generate buy/sell signals. (Example not fact)
 We pick one and add as filter. The application now runs back tests to define the optimal settings for this indicator and strategy.

Lets say it is **MA Pair 13 and 48** to achieve best performance
 Will this filter and the previous filter **MACD** improve our ***Performance data? Yes or no?**



Step 5: Add another filter based on Price Bar Pattern and/or Chart pattern

Lets add 4 more filters, Lets say we add Candlestick pattern: **Three outside up & Three outside down**
 And Chart pattern: **Head and shoulders & Inverse Head and shoulders**

The application now runs back tests to define the optimal settings for this strategy.
 Will these 4 new filter and the previous **MACD and MA Cross** improve our ***Performance data? Yes or no?**

Important:

The app should be able to handle up to 10 filters to give the user lots of room for exploration! (**We have a raw frame work for this, see attachment for this project.*)

We need **you** to help us to define and cross reference the filters. Meaning: What are the rules for filtering and what is possible when combining the different filters? **The more choices for user, the better of course!**

This part need a lot of work since we want the user to feel he has many option when backtesting his strategies and filters.

***Very basic filter rule example:

What can we use as simple rules that is easy to implement?

1. And
2. Or
3. And/Or
4. Length within X pricebars of signal or time lets say X min
5.And more

Example:

Signal when indicator (1 and/or 2) is generated and (3 Or 4) within 10 pricebars

Indicator 1 Technical indicator **MACD**

Indicator 2 Technical indicator **MA Cross**

Indicator 3 Candlestick pattern: **Three outside up**

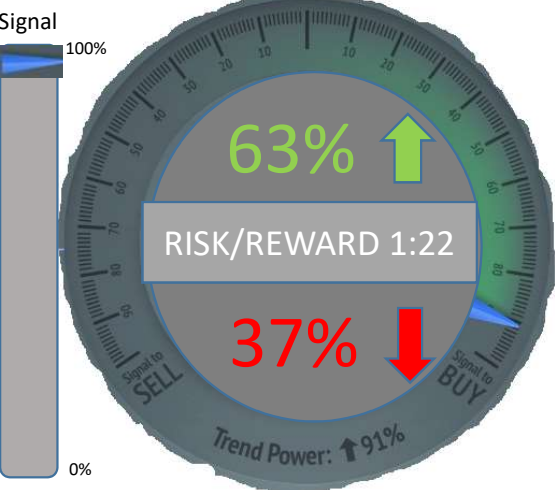
Indicator 4 Candlestick pattern: **Three outside down**

Another option is for the user to click and add **AI prediction** to his strategies. Here we can add different prediction models from our "Library" for the user to add to his chart that will predict the next lets say 10-60 bars!



DASHBOARD LAYOUT

Framework done but need lots of improvements!



Range Select:

- Daily
- Weekly
- Monthly
- Yearly

| | | | |
|----------------------------|------------|----------|----------|
| Summary: STRONG BUY | | | |
| Moving Averages: | BUY | Buy (10) | Sell (2) |
| Technical Indicators: | STRONG BUY | Buy (10) | Sell (1) |

Past performance
Win/Loss ratio 7/10

Trade 1 - Win
Trade 2 - Win
Trade 3 - Loss
Trade 4 - Loss
Trade 5 - Loss
Trade 6 - Win
Trade 7 - Loss
Trade 8 - Win
Trade 9 - Win
Trade 10 - Win

Technical Indicators » Aug 28, 2018 20:05 GMT

Moving Averages » Aug 28, 2018 20:05 GMT

Candlestick Patterns

Time Frame trend power

| Name | Value | Action |
|----------------------------|---------|-----------------|
| RSI(14) | 64.260 | Buy |
| STOCH(9,6) | 78.718 | Buy |
| STOCHRSI(14) | 37.533 | Sell |
| MACD(12,26) | 0.970 | Buy |
| ADX(14) | 33.748 | Buy |
| Williams %R | -20.914 | Buy |
| CCI(14) | 87.8164 | Buy |
| ATR(14) | 0.8314 | Less Volatility |
| Highs/Lows(14) | 0.4793 | Buy |
| Ultimate Oscillator | 64.360 | Buy |
| ROC | 1.615 | Buy |
| Bull/Bear Power(13) | 1.6780 | Buy |
| Buy: 10 Sell: 1 Neutral: 0 | | |
| Summary: STRONG BUY | | |

| Period | Simple | Exponential |
|---------------------|----------------|----------------|
| MA5 | 219.82 Sell | 219.73 Sell |
| MA10 | 219.28 Buy | 219.22 Buy |
| MA20 | 218.04 Buy | 218.40 Buy |
| MA50 | 216.72 Buy | 216.47 Buy |
| MA100 | 213.54 Buy | 213.04 Buy |
| MA200 | 205.63 Buy | 207.51 Buy |
| Buy: 10 Sell: 2 | | |
| Summary: BUY | | |

| Pattern | Timeframe | Reliability | Candles Ago |
|--------------------|-----------|-------------|-------------|
| Completed Patterns | | | |
| Shooting Star | 5H | ★★★ | 1 |
| Doji Star Bearish | 1W | ★★★ | 3 |
| Bullish Engulfing | 1M | ★★★ | 6 |
| Dark Cloud Cover | 1D | ★★★ | 6 |
| Three Outside Up | 30 | ★★★ | 6 |

CHART PATTERNS

| Pattern | Timeframe | Reliability | Candles Ago |
|--------------------|-----------|-------------|-------------|
| Completed Patterns | | | |
| Head and shoulders | 5H | ★★★ | 1 |
| Triangle | 1W | ★★★ | 3 |
| Triple top | 1M | ★★★ | 6 |

| | |
|--------|------|
| 1 min | +51% |
| 5 min | +76% |
| 15 min | +91% |
| 30 min | +67% |
| 60 min | +61% |
| 4h | +33% |
| Daily | +67% |
| Weekly | +55% |



Range Select:

- Daily
- Weekly
- Monthly
- Yearly

For that Time frame (15min)

AI-Prediction plots 10-60 bars in future

How far are we from a trading signal based on our settings in Laboratory?

Signal strength to buy/sell
Based on user selection of:

- Technical indicators and/or
- Bar patterns and/or
- Chart patterns

Main gauge that gives us the odds/risk to reward ratio and *plots it on chart. Odds for going up or down in a trade i real time in % (63% up and 37% down).

The 12 best performing indicators

Moving Averages
Simple & Exponential

Last 5 Candlestick Patterns

Past performance of
strategy chosen in
Trading Laboratory

Summary of indicators,
MA, Candlesticks and
Chart Patterns indicators

Last 3 Chart Patterns

Quick strength overview
of the other time frames

| | | | |
|----------------------------|------------|----------|----------|
| Summary: STRONG BUY | | | |
| Moving Averages: | BUY | Buy (10) | Sell (2) |
| Technical Indicators: | STRONG BUY | Buy (10) | Sell (1) |

Past performance
Win/loss ratio 7/10

Trade 1 - Win
Trade 2 - Win
Trade 3 - Loss
Trade 4 - Loss
Trade 5 - Loss
Trade 6 - Win
Trade 7 - Loss
Trade 8 - Win
Trade 9 - Win
Trade 10 - Win

Technical Indicators » Aug 28, 2018 20:05 GMT

| Name | Value | Action |
|--|---------|-----------------|
| RSI(14) | 64.260 | Buy |
| STOCH(9,6) | 78.718 | Buy |
| STOCHRSI(14) | 37.533 | Sell |
| MACD(12,26) | 0.970 | Buy |
| ADX(14) | 33.748 | Buy |
| Williams %R | -20.914 | Buy |
| CCI(14) | 87.8164 | Buy |
| ATR(14) | 0.8314 | Less Volatility |
| Highs/Lows(14) | 0.4793 | Buy |
| Ultimate Oscillator | 64.360 | Buy |
| ROC | 1.615 | Buy |
| Bull/Bear Power(13) | 1.6780 | Buy |
| Buy: 10 Sell: 1 Neutral: 0 Summary: STRONG BUY | | |

Moving Averages » Aug 28, 2018 20:05 GMT

| Period | Simple | Exponential |
|--|----------------|----------------|
| MA5 | 219.82 Sell | 219.73 Sell |
| MA10 | 219.28 Buy | 219.22 Buy |
| MA20 | 218.04 Buy | 218.40 Buy |
| MA50 | 216.72 Buy | 216.47 Buy |
| MA100 | 213.54 Buy | 213.04 Buy |
| MA200 | 205.63 Buy | 207.51 Buy |
| Buy: 10 Sell: 2 Summary: BUY | | |

Candlestick Patterns

| Pattern | Timeframe | Reliability | Candles Ago |
|--------------------|-----------|-------------|-------------|
| Completed Patterns | | | |
| Shooting Star | 5H | ★★★ | 1 |
| Doji Star Bearish | 1W | ★★★ | 3 |
| Bullish Engulfing | 1M | ★★★ | 6 |
| Dark Cloud Cover | 1D | ★★★ | 6 |
| Three Outside Up | 30 | ★★★ | 6 |

CHART PATTERNS

| Pattern | Timeframe | Reliability | Candles Ago |
|--------------------|-----------|-------------|-------------|
| Completed Patterns | | | |
| Head and shoulders | 5H | ★★★ | 1 |
| Triangle | 1W | ★★★ | 3 |
| Triple top | 1M | ★★★ | 6 |

Time Frame trend power

| | |
|--------|------|
| 1 min | +51% |
| 5 min | +76% |
| 15 min | +91% |
| 30 min | +67% |
| 60 min | +61% |
| 4h | +33% |
| Daily | +67% |
| Weekly | +55% |

Web application Login Security.

Each user has their e-mail and password for access to application.

First time user e-mail is validated by an request link sent to e-mail (*thereafter the user can set up a password*)

Lost password can be reset by requesting a reset link send to e-mail where user can create a new password

Be ready for pay option.

We might consider a pay option for pro-members later on so we need our application to be ready for an payment option!

Front End/UX.

Front end must be very user friendly. We might have a UX professional adjust the design later on for the best user experience. Hosting and database administration will be handled by us.

Summary:

First, thank you for taking the time to read through this presentation. The Freelancer profile we are looking for is someone with excellent knowledge in math, trading and perhaps most important someone who can think outside the "box" and add to our ideas, values and be our future developing partner. We had a awesome Freelancer who has done most of the graphical work and framework for our application. Unfortunatily he got very sick and is no longer with us. We hope you can finish what he has started and look forward to your proposal. See our application and current status:

<http://585tradingepisec.episec.se:8080/#>

Best Regards,

EPISEC.se

Johan Graf CEO