# Website Design Specification – www.mywealthanlayst.com

## Purpose

The purpose of the website is to provide access to information on investment asset class values relative to other asset classes i.e. the commodity, metal, property or stock measured in terms of “things” not dollars for e.g. how many ounces of silver does it take to buy an ounce of gold.

## Scope

Development scope:

1. Source & compile historical data base of required asset/index prices
2. Incorporate auto refreshing of data from reliable sources
3. Develop graph / chart visual design and function
4. Build requested charts into the website and link to the database
5. Develop website to the proposed wireframe
6. Development and sharing via GitHub

Staged development is required (See colours for guidance):

Stage 1: website with latest prices and one fully functioning chart (Gold / Silver) [max. 1 month]

Stage 2: Stage 1 + additional charts included [max. 1 month]

Stage 3: Stage 2+ full website functionality and final charts [max. 1 month]

The developer Is to provide pricing (rate and hours) for each stage listed above.

A Confidentiality agreement is to be signed upon award of works.

## Content / Functionality

The website will require the below content / functionality:

1. username and password to login, including registration of personal details such as email, phone etc. Personal information collected will need to be secure from theft.
2. display up to date prices (AUD) of the below assets including latest price movement/trend ($ movement and % movement). The date/time of the data refreshing will need to be displayed:

* Gold
* Silver
* Property - Median Dwelling Values (Australian Capital Cities)
* Crude Oil Index
* All Ordinaries
* Bitcoin

1. Display charts of various combinations of the above assets with all charts to include:
   1. Vertical economic recession/depression bars - <https://www.thebalance.com/the-history-of-recessions-in-the-united-states-3306011>;
   2. Horizontal Overvalued line
   3. Horizontal Undervalued line

Chart combinations include:

1. Median Established House Price (8 capital cities) / Gold and All Ordinaries / Gold and All Ordinaries P/E Ratio (this needs to be the first chart on the dashboard)
2. Gold / Silver
3. Median Established House Price (8 capital cities) / Gold
4. Median Established House Price (8 capital cities) / average annual income
5. All Ordinaries P/E Ratio (12 = undervalued, 20 = overvalued)
6. All Ordinaries / Gold
7. Bitcoin / Gold
8. Bitcoin / All Ordinaries
9. Build in ability to affiliate link to websites which enable purchase of assets - for example;
   1. Precious Metals – <https://goldsilver.com/>
      1. UK - <https://www.bullionbypost.co.uk/>
      2. USA - <https://www.jmbullion.com/>
      3. AU - <https://www.perthmint.com/>
      4. Canada – <https://silvergoldbull.ca/gold>
   2. Stocks - <https://www.plus500.com.au/>
   3. Bitcoin - <https://www.coinbase.com/>
10. Build in advertising into the website interface
11. Ability to donate to the website via bitcoin, Ethereum, Litecoin, Zcash, Monero, Ethereum etc – a part from being able to donate freely, I would like the wallet keys to be displayed at login to lure donations when logging in. e.g. <https://shop.wikileaks.org/donate#db9> and <https://commerce.coinbase.com/charges/GVKWW6RE>
12. A disclaimer will need to be included when registering for the site, see example here - <https://www.consultum.com.au/disclaimer>

## Technology:

The below technology/software is preferred:

* Open source
* Version control – Github <https://github.com/my-wealth-analyst>
* Database – MySQL, Python
* Charts – amCharts, highcharts

## Design Examples

* Website - Squarespace Mojave design <https://www.squarespace.com/templates/business>
* Charts - Stockcharts <https://www.stockcharts.com/>

## Data Sources

* Gold - <https://www.perthmint.com/historical_metal_prices.aspx>
* Silver - <https://www.perthmint.com/historical_metal_prices.aspx>
* Crude Oil <https://markets.businessinsider.com/commodities/oil-price?type=wti>
* All Ordinaries <https://au.finance.yahoo.com/quote/%5Eaord/>
* All Ordinaries P/E ratio <https://www.marketindex.com.au/data-downloads>
* Bitcoin <https://coinmarketcap.com/currencies/bitcoin/>
* Average Annual Income [historical] - 
* Average Annual Income [for refreshing data] - <https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/6302.0Nov%202018?OpenDocument> Tables 13A – 13H
* Property price [historical] - 
* Property price [For refreshing data per quarter] - <https://www.abs.gov.au/ausstats/meisubs.nsf/log?openagent&641604.xls&6416.0&Time%20Series%20Spreadsheet&0A122B0E6F83CFC5CA2583C1000F6A98&0&Dec%202018&19.03.2019&Latest>

## Wireframe