## Computing Coursework 2018

## **Planning**

Initial transcript

Client

so basically, Crypto Exchanges have APIs

I was wondering if it would be possible to create a desktop app that collates all of these into one manageable portfolio

I cannot find a windows PC version of any manager out there

and certainly not one that imports using the Apis provided by the exchanges

Me

hmm like information on the current exchange rate?

Client

yeah, and pulls the current amount of stock you hold in each coin

bittrex currently have one that I can use on an iOS app

Me

hmmm interesting - I mean it would need to integrate with wallets which would be more complex -> though why not just use a website to look up this stuff?

Client

I have 5 different exchanges

about 10 coins on each,

keeping the value of each and the percentage profit is a nightmare

especially if I'm day trading

I just need a better way of keeping track

Me

hmmm okay

would be interesting to work on - let me just have a look at the apis out there

Client:

Alrighty

Me:

so I just got bittrix on my phone and I see the market you mean - you sure there's no one of these for windows already?

Client:

They provide an API, which I have found only one app that can use it

There's one company called Delta which could potentially be releasing something

Just wondering what your thoughts on the whole situation were

Me:

I saw hmmm - i'll have a look at making a simple PoC and see how long it takes to integrate stuff together - looks like a fun project - and delta looks pretty good - I'm surprised no ones released a desktop version...

#### Client:

So am I, I would have thought they would release desktop before iOS or apps

Me:

mhm

I guess mobile is such a big market atm?

[...]

Design transcript

[...]

## Client Brief

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A desktop application wicw allo is me to vie my curreot portiolios and balance of bitcoios and various otwer cryptocurreocies. I ould like it to automatically update itwitwe curreot mean price of two bitcoio to otwer curreocies. I ould like it to be customisable, stylisw and easy to use. Additionally, I and it into the area itwice as many different curreocy excwanges as possible to maximise its usage.

## **MVP Plan**

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## Similar product research

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#### Coin Ticker iPhone -

https://itunes.apple.com/gb/app/coin-ticker-bitcoin-altcoin/id636476147?mt=8

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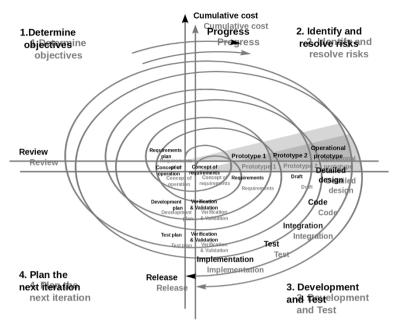
## Cryptolio - <a href="https://github.com/larion/cryptolio">https://github.com/larion/cryptolio</a>

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CryptoCompare - <a href="https://www.cryptocompare.com/portfolio/">https://www.cryptocompare.com/portfolio/</a>

## General development model

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## Technologies needed

## Language Choice

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## Disadvantages

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- Le trnciie ee n(i & tructure

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## Advantages

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#### Disadvantages

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#### Advantages

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#### Disadvantages

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#### **APIs**

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## Boilerplate comparison

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Style choices

## Testing framework

## Hardware and software requirements

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## Supported Platforms

Following platforms are supported by Electron:

#### macOS

Only 64bit binaries are provided for macOS, and the minimum macOS version supported is macOS 10.9.

#### Windows

Windows 7 and later are supported, older operating systems are not supported (and do not work).

Both 1a32 (x86) and x64 (amd64) binaries are provided for Windows. Please note, the ARM version of Windows is not supported for now.

#### Linux

The prebuilt ia32 (i686) and x64 (amd64) binaries of Electron are built on Ubuntu 12.04, the arm binary is built against ARM v7 with hard-float ABI and NEON for Debian Wheezy.

Whether the prebuilt binary can run on a distribution depends on whether the distribution includes the libraries that Electron is linked to on the building platform, so only Ubuntu 12.04 is guaranteed to work, but following platforms are also verified to be able to run the prebuilt binaries of Electron:

- Ubuntu 12.04 and later
- Fedora 21
- Debian 8

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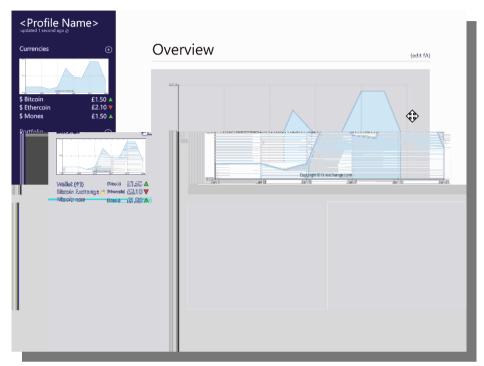
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#### Conclusion

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## Basic Layout design

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## Tests needed for MVP

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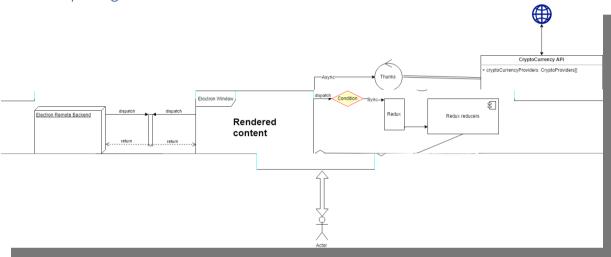
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## Problem splitting



## Development

**Testing** 

**Testing Needed** 

## **Fvaluation**

**Testing** 

## Bibliography

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