Future Finance: Navigating Crypto Accounting and Al Integration

• Date: Friday 5 July 2024

• Time: 20:00-21:00 (GMT+8, Singapore time)

• Language: English

Webinar Link: Sent to participants



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Winston Chan
Core Contributor
Launch Factor







Speaker Profile



David Lau

- Eliminating manual finance tasks with AI and automation.
- 25+ years in accounting, tax and audit
- Founder of SOAS, with 1,000+ entities incorporated.
- CEO of Automa8e
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Content

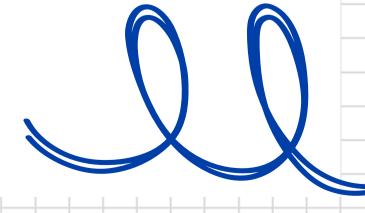
. Crypto Accounting 101

2. Crypto Sub-Ledger Intro

3. Al Accounting Solutions

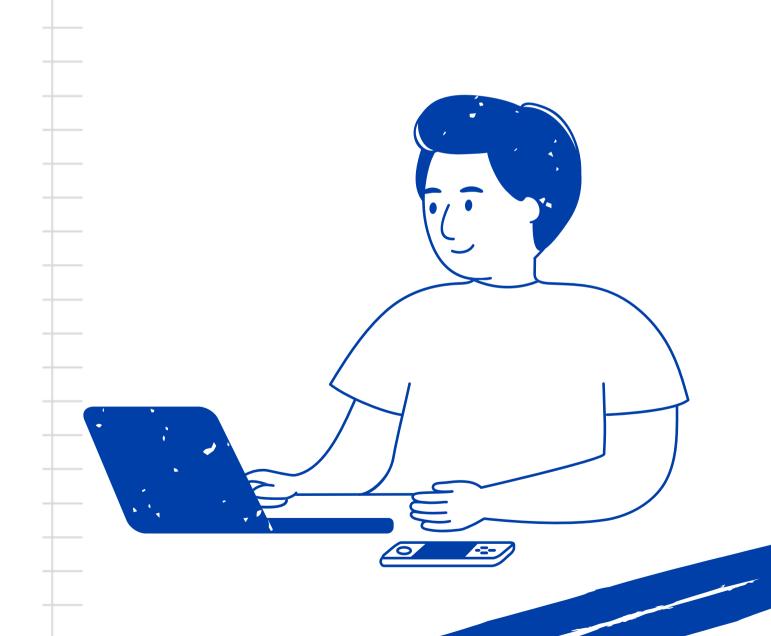
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Crypto Accounting 101*

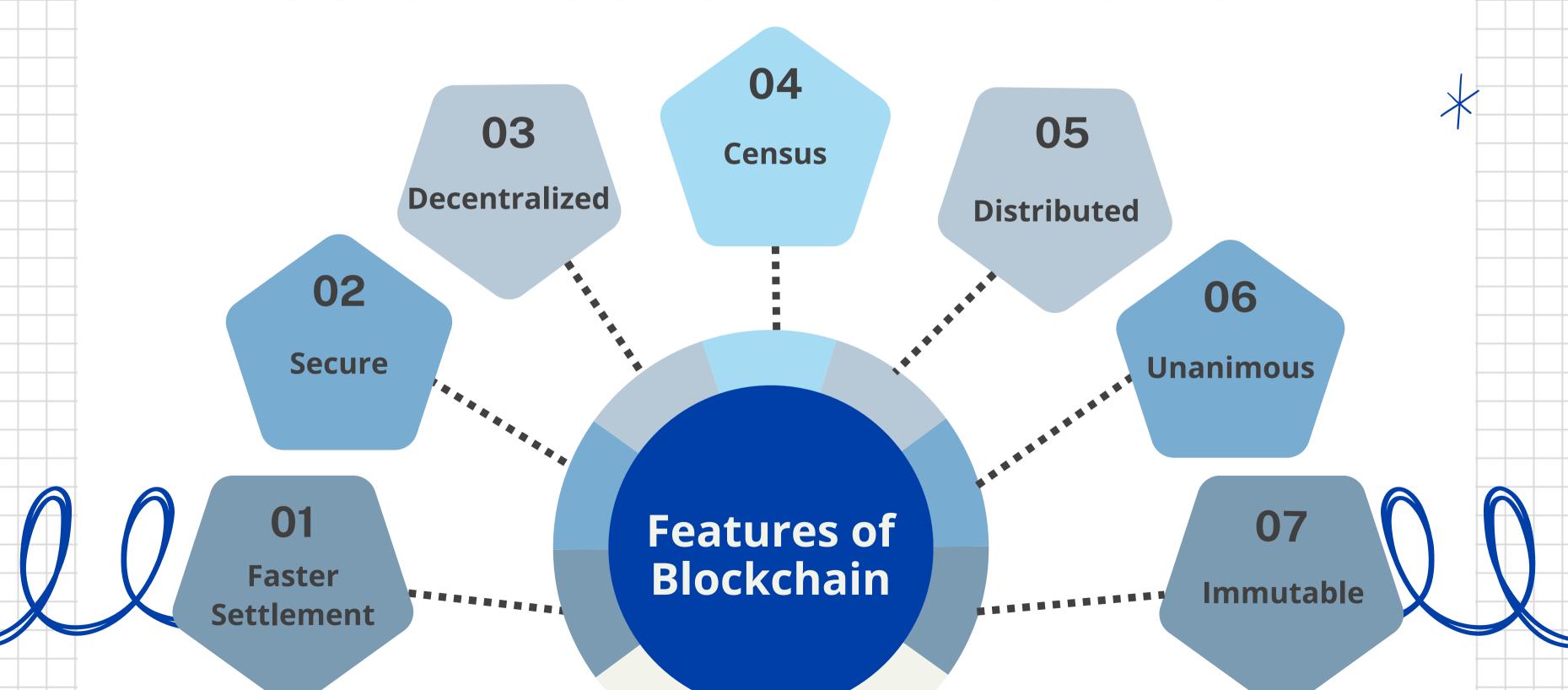


Objectives

- Blockchain Introduction
- BTC Introduction
- ETH Introduction
- Stablecoin Introduction
- How is crypto presented on the balance sheet



Features of Blockchain



Blockchain Pros & Cons



Cons

Improved accuracy by removing human involvement in verification

Significant technology cost associated with mining bitcoin

Cost reductions by eliminating third-party verification

Low transactions per second

Decentralization makes it harder to tamper with

History of use in illicit activities

Transactions are secure, private and efficient

Susceptibility to being hacked

Bitcoin Cheat Sheet 2023 (1)



World's first public digital payments infrastructure

Send and receive value to anyone in the world using a computer connected to the internet

INVENTOR

Satoshi Nakamoto

Pseudarymous group/person who developed Sitpoin, authored bitpoin white paper (2008), and deployed Bitcoin software code [1]

PAYMENTS INFRASTRUCTURE

World's first crypto currency bitcoin (lowertase "b")

World's first public blockchain network - Bitopin (upper case "6")

COIN SUPPLY

21 Million Manimum Supply

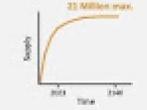
bound Supply [2]

CONSENSUS MECHANISM

Proof of Work

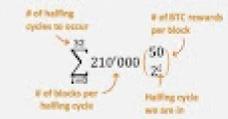
- · Miner use computing power to solve complex math problems.
- Winner has right to verify next block of. transaction and collects reward
- Outcome: Transactions on blockchain are verified and verification efforts are rewarded [3]

COIN ISSUANCE



Current block reward is 6.25 bitcoin Approx. 1 (liock is verified/10min [4]

BLOCK REWARD HALFING



1 Block/10min ~ 1 halfing every 4 years Next block reward is 3.125 bitcoin [5]

MINING REVENUE

\$47.4 Billion

Currulative Bitcoin mining revenue [6]

NETWORK UPTIME

99.98637 %

Since inception on January 3, 2009 02:54:25 GMT [7]

COINS LOST

~ 6 Million

Approx. 4% of bitcoins lost each year. e.g., loss of hardware wallet, private beys, transfer to non-managed address [8]

BITCOIN ADDRESS

E.g. 12c6DSiU4Rq...rJX

Series of numbers/letters (~30 characters). used to record ownership of bitcoins on the Bitopin blockchain.

BITCOIN WALLET

- · App which generates, stores, and protects your private key, public key, and bitcoin
- Does not "hold" your bitcoin, but manages your passwords (private key) and corresponding usernames (public key)

CUMULATIVE ADDRESSES

43.2 Million

Cumulative Bitcoin addresses with non-zero balance [9]

CULTURE

PREMINE

0 %

1 MB

1201

BLOCK SIZE

TRANSACTION TIME 20min - 1h

UNITS & SYMBOLS

BITCOIN VALUE

130%

108

0.00 000 001 satoshi

GM* HODL**

LINGO

Minimalistic Anti-mainstream

"good morning ""hold on for dear life [11]

COUNTRY ADOPTIONS

- Wietnam
- Philippines
- Ukraine
- 5. United States 6. Pakistan

Measured where most people have biggest. share of their money in crypto [12].

PUBLIC COMPANIES

COMPANY # BITCOIN LINE

- 1. Microdinategy
- 2. Marathon Digital 3. Coinbase.

PROS & CONS



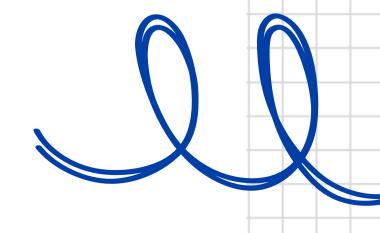
- * Access
- Volatility Acceptance. · Transaction rate

Bitcoin is available to all and not owned by any single entity

14.05.2023 | V4.20

Raphael Walker | @thewalker_eth | thewalker.eth

SOURCE: BLOCK GUIDE GROUP HTTPS://WWW.BLOCK **GUIDE.CO/**



Ethereum Cheat Sheet 2023

Leading public digital infrastructure for decentralised applications and smart contracts Access digital money, global payments, and applications - all you need is the internet

INVENTOR

Vitalik Buterin

Published the Othersum white paper (2004) when he was 19 years old and co-founded among others the Ethereum protocol [1]

APPLICATION INFRASTRUCTURE

Decentralised Apps Software programs that run on a blockchain network, rather than on a single computer (dApps) [2]

Smart Contracts Contracts that automatically execute transactions once certain conditions arre innet [30].

COIN VS TOKEN

A coin is native on its own blockchain, whereas tokens rely on another blockchain [4]

Coin Other (TTH)



on Ethereum on Ethereum

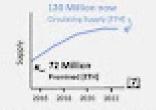
COIN SUPPLY

Circulating Supply 120 Million pa Comparable to available shares in the market.

Maximum Supply 00 Comparable to issuable shares in the market

Circulating Supply = ETH based = ETH Berned Deflationary - ETH Issued < ETH Burned

COIN ISSUANCE



ETH issuance rate per day - 1'900 ETH [8] given 20 Million ETH are staked [9]

COIN BURN.

Burn

Existing ETH get destroyed by sending the coins to an address from which they cannot be retrieved

Burn Rate

ETH burn rate per day ~ 3/400 ETH [30] given avg. gas of 55 gwei/day [11]

NETWORK PROTECTION

Proof of Stake (PoS)

- Validators stake (lock up) ETH which can be destroyed in case of wrongdoing.
- Randomly selected validator proposes next block while other random validators verify block of transactions
- Block proposal and verification is: rewarded with ETH (Staking Reward) [12]

STAKING

- Allows ETH holders to earn rewards while. staking ETH for a time period.
- . The staked ETH are used to achieve consensus with the underlying PoS mechanism.
- ETH issuance via staking rewards 4.6%. p.a. of staked amount per holder [33]

ENERGY USE POW VS Pos



Electricity consumption [MWh/year] [14]

TOKEN STANDARDS

ERIC-20 ERC-1155 Fungible Token Hybrid -Interchangeable (FT) Both FT & ART

ERC-777 Non-Fungible Token Numbered Tokens (RFT) Debra Providence China

BLOCK SIZE [18] ~ 1MB (15M gas)

100

Initial Coin Offering

Type of equity fundraising (similar to IPO) using crypto currencies, but besides stake in the company, coins issued have utility for a product or software service [16].

GAS FEES

Dynamic & required for transactions on Ethereum Paid in Ether (ETH), denominated in gigawei

Base Fee Minimum amount. for a transaction.

Priority Fee (Tips)

Additional tip to prioritise your tax. Subsequently burned. Kept by validator. [17]

ETHEREUM WALLET PREMINE 1341 72 Million

12 seconds

An app for managing your funds, your Ethereum account, and your login to Ethereum dApps

Types of wallets Mobile applications, browser extensions, physical hardware wallets [21]

CUMULATIVE ADDRESSES

24 Million 101 Million WITH NON-ZERO BILLANCE & BALANCE & B.B. ETH

Cumulative Othersum addresses [22]

UNITS & SYMBOLS

Transaction time: 1 - 15 min [26]

BLOCK TIME

UNITS SYMBOL ETH VALUE 0.000/000/001 EWE! shannon

CHALLENGES

- Scaling layer-2 (L2)
- · Wallet security
- Privacy preserving

BENEFITS

- It's really years.
- · Peer-to-peer payments
- · No centralised control
- Open to anyone.

SOURCE: BLOCK GUIDE GROUP HTTPS://WWW.BLOCK **GUIDE.CO/**

We gained access to "free" internet services by giving up control of our personal data Ethereum changes this

Stablecoin Cheat Sheet <



Less volatile crypto currencies backed with reserve assets

Faster transactions and reduced fees for global money transfers and credit card payments

MOST POPULAR

Tether USDT

Flat-collateralized stablecoin, a token initially Isunched on the Bitcoin network (2014), used for international payments, to stabilize funds on-chain and to transact across platforms [11]

TOKENISED REAL WORLD ASSET

Stablecoins are digital assets on public blockchains whose value is based on (pegged to) the value of the backing reserve asset.

Reserve Assets are mainly off-chain asset dasses e.g., cash, short term debt, and gold [2]

RESERVE ASSET TYPES:

Cash & short-term debt Other Cryptocurrencies Gold, Silver, Crude Oil Commodity Non-collateralized

USD dominates stablecoin reserves (>95%)

SUPPLY

Total Market Cap \$127 Billion Sum of 126 stablecoins a their value (USD)

Total Value Locked \$81 Billion Sum of reserve assets value of 126 stablecoins

Mcap / TVL = 1.6

USDT Dominance = 69%



LIFECYCLE

Flori

Cresta.

Minting

Real world asset is deposited as a reserve asset. via a financial institution. The same value amount of stablecoin tokens is minted on chain

Redemption

Holders can redeem their stablecoins at the conversion rate in exchange for the reserve. asset. Minting & redemption = on- / off-ramp

USE

Only 10%

of crypto market capitalization.

But 70-80%

of en-chain transaction value (USD)

While 10 Million

monthly active on-chain users trending up (7)

DEPEGGING

Deviation from pegged value

Causes For Depeg Events

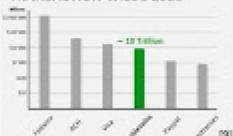
Liquidity stresses.

Sudden demand or supply changes:

Impairment of reserves

Shortfall in collateralization triggers a loss of confidence and result in sell off

TRANSACTION VALUE 2023



CBDC

Central Bank Digital Currency

- Digital form of a country's flat currency.
- Issued by governments central banks
- Backed by faith & credit of the government

Use private centralised blockchains (10)

CBDC COUNTRY TRACKER

130 Countries Exploring

Representing 98% of global GDP

21 Pilots & 11 Fully Launched 9 of the 620 countries are in pilot stage [33]

PROGRAMMABLE MONEY

Conditional & Automated

CBDCs & crypto currencies can be programmed. via smart contracts, facilitating conditional or automated payments based on preset rules

ORACLES

Off-chain @ On-chain

Connect world data to blockchains e.g., CPL reserve assets, weather data, sport scores [15]

INFLATION

30% Increase of CPI

Total increase in prices (CPI inflation) of goods & services in the US from 2013 -2023

Pegged to Cost of Living

A stabilecoin m/o reserve assets, linked to an inflation index e.g. CPI, linked via oracles [34]

ENTERPRISE ADOPTION

- VISA using USDC on Solana & Ethereum
- PayPal launched own stablecoin PYUSD
- · Stripe using USDC for creator pay outs

[16] [17] [18]

CHALLENGES

FLATCOIN

- Deviation from pegged collateral
- Access to de- / off-namps
- Merchant & people acceptance

BENEFITS

- Less volatile.
- Settled in minutes
- Near-zero cost Fully programmable



The evolution of money from physical to digital to verifiable



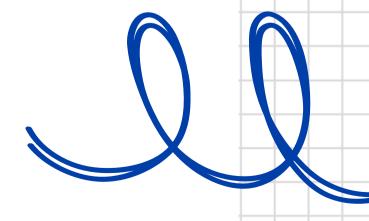








SOURCE: BLOCK GUIDE GROUP HTTPS://WWW.BLOCK **GUIDE.CO/**



Four specific subsets of cryptographic assets





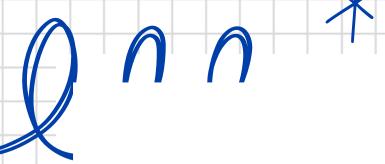
Cryptocurrencies

Other Types of Cryptoassets

Utility Tokens

Asset-backed Tokens

Security Tokens



Example

Inherent Value

Cryptocurrencies







None - derives its value based on supply and demand.

Asset-backed Tokens



USDC

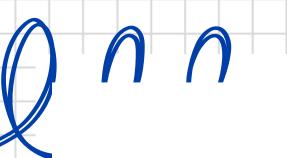


USDT



USDY

Derives its value based on the underlying asset.



Example

Inherent Value

Utility Tokens

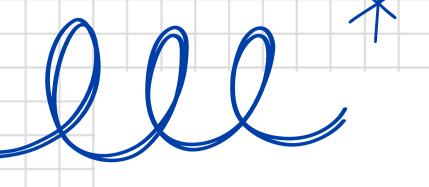


Value is derived from the demand for the issuer's service or product.

Security Tokens

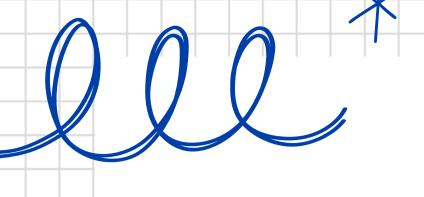


Value is derived from the success of the entity, since the holder of the token shares in future profits or receives cash or another financial asset.



Discussion:

How do cryptocurrencies appear on a balance sheet?



Accounting treatment of cryptocurrencies

IFRS does not include specific guidance on the accounting for cryptographic assets and there is no clear industry practice, so the accounting for cryptographic assets could fall into a variety of different standards.

According to the entity's purpose for holding the cryptographic assets, we classify them

as inventory or Intangible assets.

- 1. Cryptocurrencies do not have some of the common properties of Cash and currency, especially:
- cryptocurrencies are not legal tender and mostly are not issued or backed by any government or state;
- cryptocurrencies are currently not capable of setting prices for goods and services directly. In other words, cryptocurrencies might be accepted to settle some transactions, but they are not directly related to the setting of prices for goods or services in an economy.

2. Financial asset – other than cash: Holding a unit of a cryptocurrency typically does not give the holder a contractual right to receive cash or another financial asset, nor does the cryptocurrency come into existence as a result of a contractual relationship.



3. Cryptocurrencies do not fall into the scope of IAS 16, 'Property, Plant and Equipment', because they are not tangible items.







4. Inventory: IAS 2 does not require inventories to be in a physical form, but inventory should consist of assets that are held for sale in the ordinary course of business. Inventory accounting might be appropriate if an entity holds cryptocurrencies for sale in the ordinary course of business. An entity that actively trades the cryptocurrencies, purchasing them with a view to their resale in the near future and generating a profit from fluctuations in the price or traders' margin, might consider whether the guidance in IAS 2 for commodity broker-traders should be applied.

However, if the entity holds cryptocurrencies for investment purposes (that is capital appreciation) over extended periods of time, it would likely not meet the definition of inventory

5 Intangible asset: If a cryptocurrency does not meet the definition of any of the above categories, it will likely meet the definition of an intangible asset under IAS 38, 'Intangible Assets', because:

• it is a resource controlled by an entity (that is, the entity has the power to obtain the economic benefits

that the asset will generate and to restrict the access of others to those benefits) as a result of past

events and from which future economic benefits are expected to flow to the entity;

- it is identifiable, because it can be sold, exchanged or transferred individually;
- it is not cash or a non-monetary asset; and
- it has no physical form.

IAS 38 applies to all intangible assets except those excluded specifically from its scope (for example, inventories).

Measurement considerations: the chart below summaries the different possible classifications and their associated measurement considerations:

<u>Applicable standard</u>	<u>Initial</u> <u>measurement</u>	<u>Subsequent</u> <u>measurement</u>	Movements in carrying amount
Inventory (IAS 2) - Other	Cost	Lower of cost and net realisable value	Movements above cost - N/A Movements below cost - Profit and loss
Inventory (IAS 2) - Commodity broker-trader exception	Cost	Fair value less costs to sell	Profit and loss

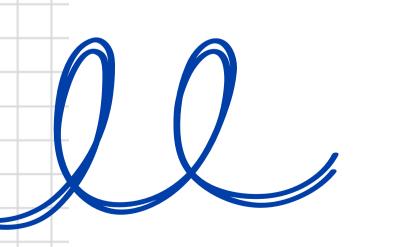
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<u>Applicable standard</u>	<u>Initial</u> <u>measurement</u>	<u>Subsequent</u> <u>measurement</u>	Movements in carrying amount
Intangible assets (IAS38) - Revaluation model (accounting policy choice but requires existence of active market)	Cost	Fair value less any accumulated amortisation and impairment*	Movements above cost - Other comprehensive income Movements below cost - Profit and loss
Intangible assets (IAS38) - Cost model	Cost	Cost less any accumulated amortization and impairment*	Movements above cost - N/A Movements below cost - Profit and loss

^{*}In most circumstances, crypto assets do not have amortisation

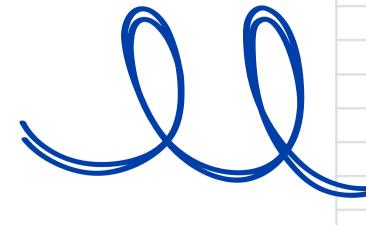
Useful Reading Material

- PwC: <u>Cryptographic assets and related transactions: accounting</u> considerations under IFRS
- ISCA: <u>Accounting for Cryptoassets: From a Holder's Perspective</u>





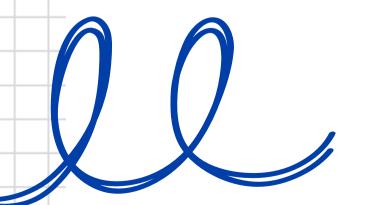


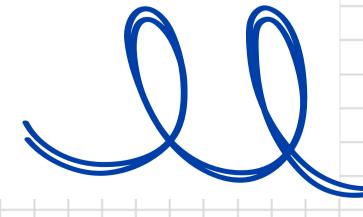


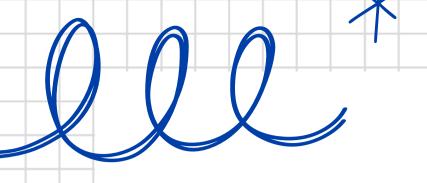


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Crypto Sub-Ledger Intro







Discussion:

What crypto accounting software have you heard of / used before?

Revolutionise Your Crypto Accounting With

iournaler





WALLETS

EXCHANGE RATE

JOURNALER

EXPORT

Blockchain Wallet

Main Wallets

Bitcoin, Ethereum, Throne, Solana, NEM, etc





























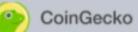




USDC, USDT, NFT Wallet

Exchange Rate

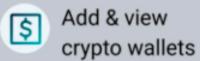


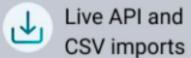




Exchange Rate

Journaler





Export transaction, invoice, bill, tax and balance data

Connect with chart of accounts and general ledger Accounting System





CSV Export

Imported Wallet

Exchanges

coinbase



... btc markets





Custody

△ Gnosis

Exporting to Accounting System



- → Journaler integrates with Xero and Intuit QuickBooks, ensuring automatic data export.
- → High volume exports facilitate easy saving and archiving of crypto accounting data.
- Connect organization, select wallet, and manage transaction settings for seamless integration.
- → Choose transaction or invoice/bill export to Xero and reconcile payments efficiently.
- View export history and manage live feeds directly.
- → Other account systems are supported through CSV export feature and live feed API link can be added upon request.

Watch QuickBooks Integration demo

Watch Xero Export demo Watch Xero Integration demo



Journaler Pricing (USD)

- Enjoy 10% Yearly Discounts and Special Accounting Practice Deals
- Enterprise clients can request custom limits and integrations to suit their specific needs.

Compact \$9/month

- 100 Transactions / month
- Manual Import + Export
- 2 Blockchain Wallets
- Unlimited Exchange Wallets

Starter

 $$49_{\text{/month}}$

- 500 Transactions / month
- Manual Data Import + Export
- 5 Blockchain Wallets
- Unlimited Exchange Wallets
- Xero & Quickbooks
- Balance & Tax Reporting

Premium

\$99/month

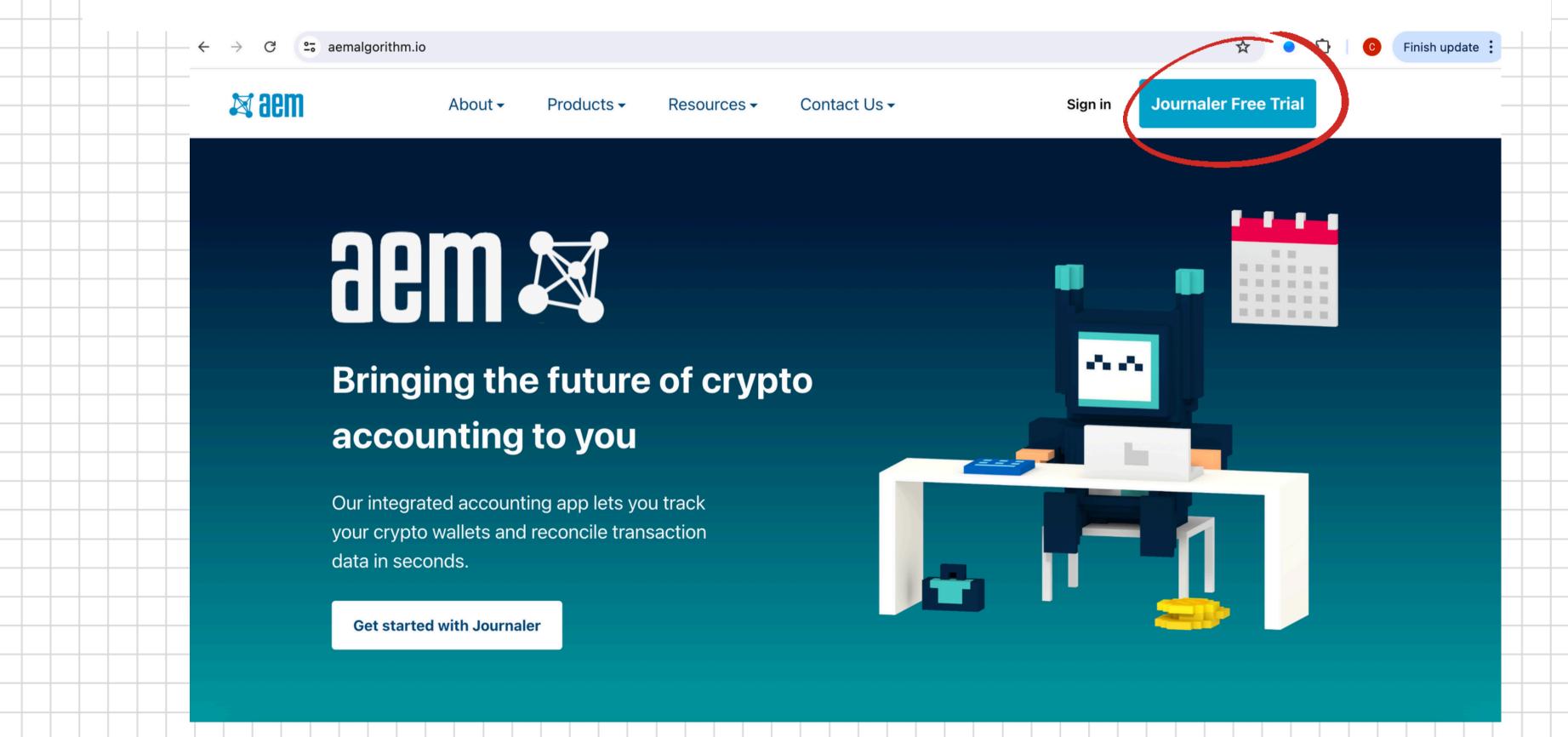
- 5,000 Transactions / month
- Live Data Import + Export
- 10 Live Blockchain Wallets
- Unlimited Exchange Wallets
- Xero & Quickbooks
- Balance & Tax Reporting

Pro

 $\$199_{\text{/month}}$

- 10,000 Transactions / month
- Live Data Import + Export
- 20 Live Blockchain Wallets
- Unlimited Exchange Wallets
- Xero & Quickbooks
- Balance & Tax Reporting

www.aemalgorithm.io



journaler

Team



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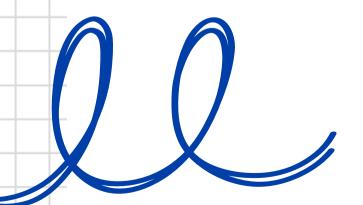
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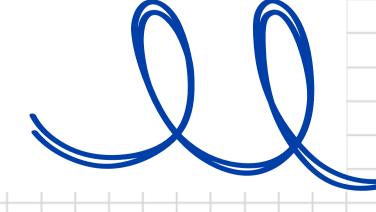
Jason Huynh BD Advisor (AU) **Dan Tong** Operations (VN)

Blockchain & Digital Assets P/L (AU)

*

Al Accounting Solutions





Ditch the Hard Work!

Al for Accounting



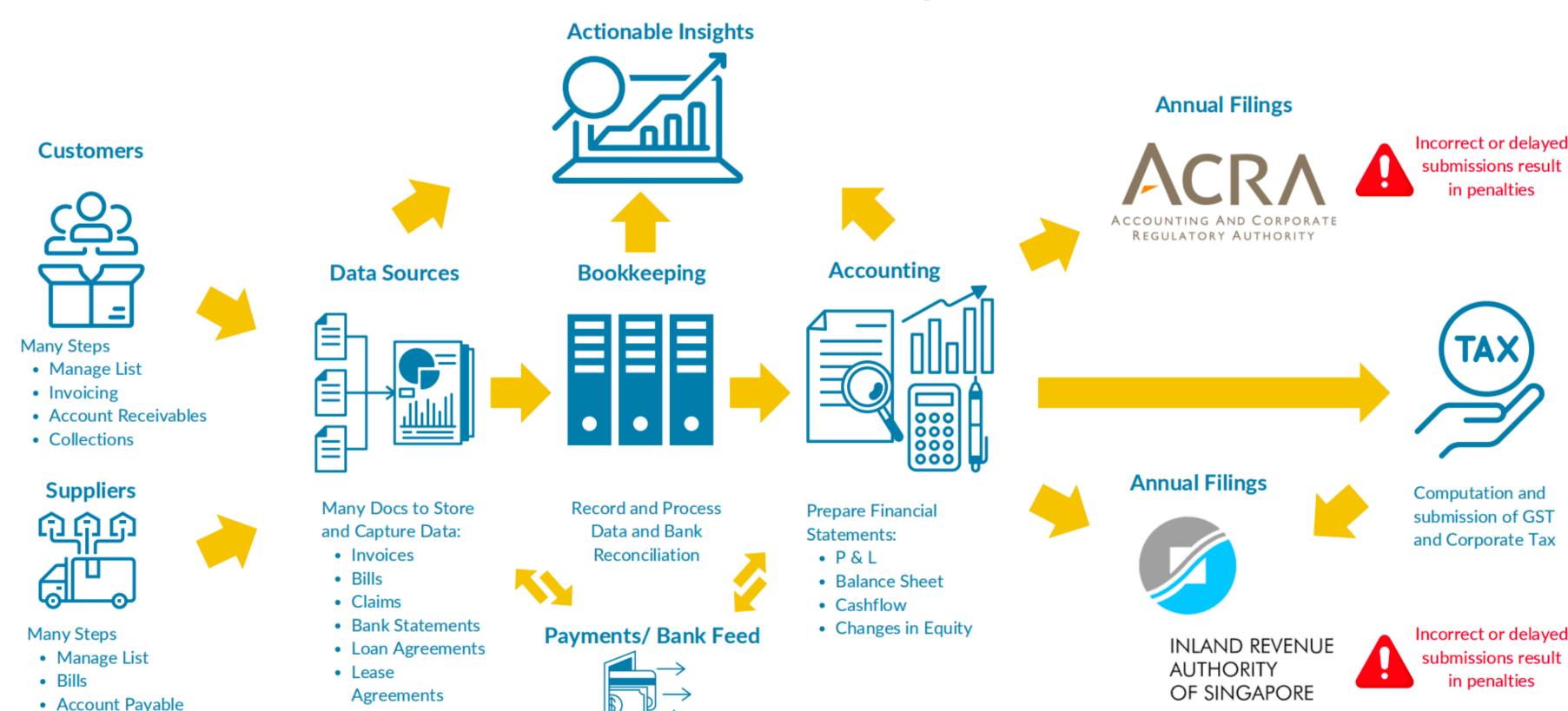
www.automa8e.com



Fintech Founder Chartered Accountant

Managing Accounting Tasks are HARD! Multiple Platforms - Processes - Manual Tasks - Regulations - Complexities

Payments



Managing a Business is Complex. Accounting Shouldn't Be.

Replacing Complex, Manual and Tedious Tasks for SMBs'

Current State

Rising costs

Many manual tasks and human error

Seprate platforms to handle key finance tasks

Lengthy Learning Curve

Insufficient data for decision making

Complex Regulations/
Standards. Eg: Tax & IFRS

Getting more done with limited resources

Desired State

Save manpower costs

Al Automation of manual tasks

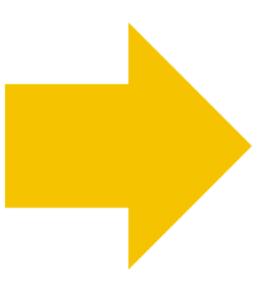
Improve efficiency

Easy learning curve

Multiple reports for informed decision making

IRAS and IFRS compliant outputs

Minimum human input



NOW! With Al Financial Tasks - Few Clicks to Complete

How it Works!

Upload

- Invoices
- Bills
- BankStatements
- Lease/Loan
 Agreements

Al Data Extraction



Automated Recording



Automated Tax Computation



Automated AR Generation





ASR+ Tier 3

Al extraction from bills, invoices, bank statements and lease/loan agreements.

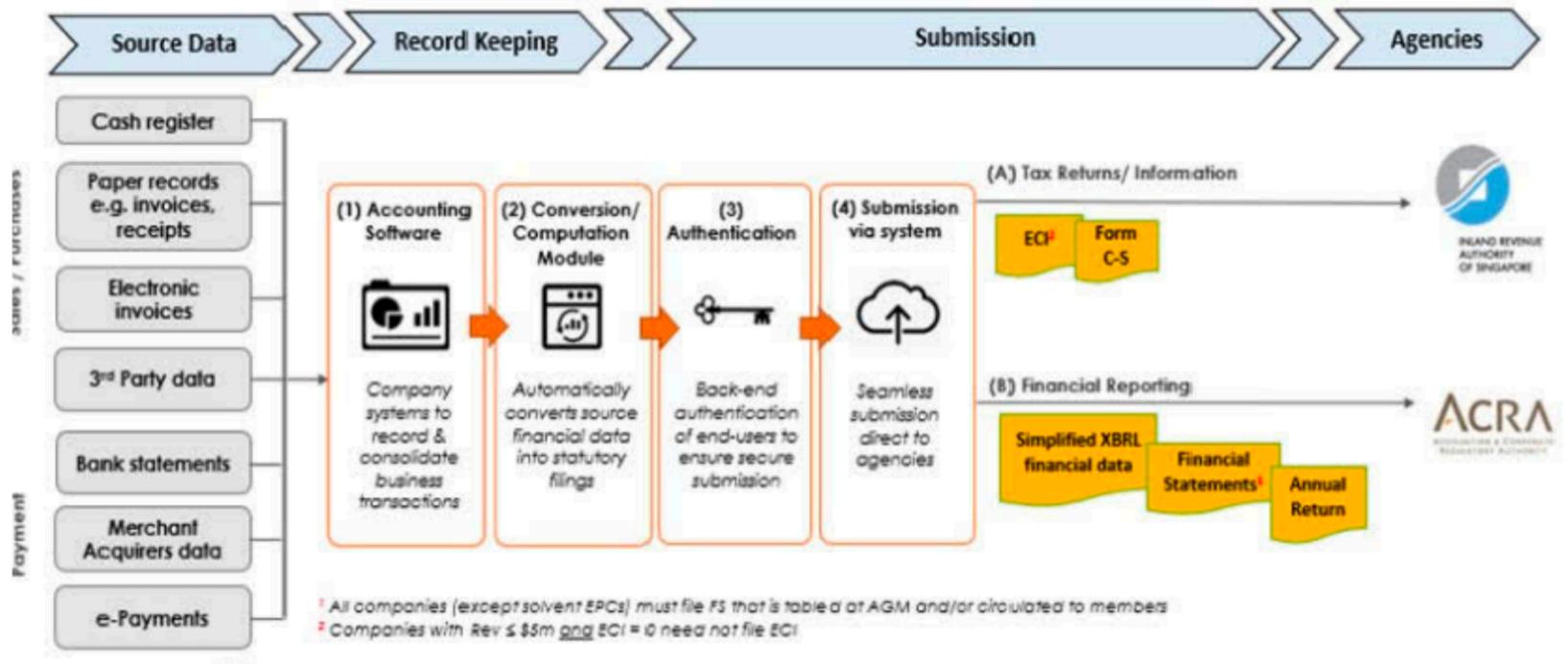
Document storage and automated bookkeeping.

Automates 90% of manual journal entries (Most in the World).
Automated depreciation, amortization and lease/ loan calculation.
Accrual

Automates tax computation, both GST and corporate tax

Automates the compilation of the IFRS and IRAS compliant Annual Report (First in the World) and financials

Preparation and Statutory Fillings is Now Seamless with Al











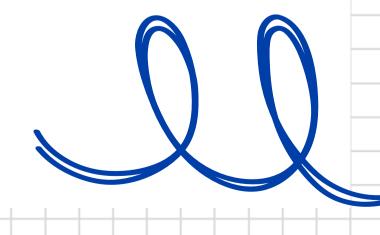
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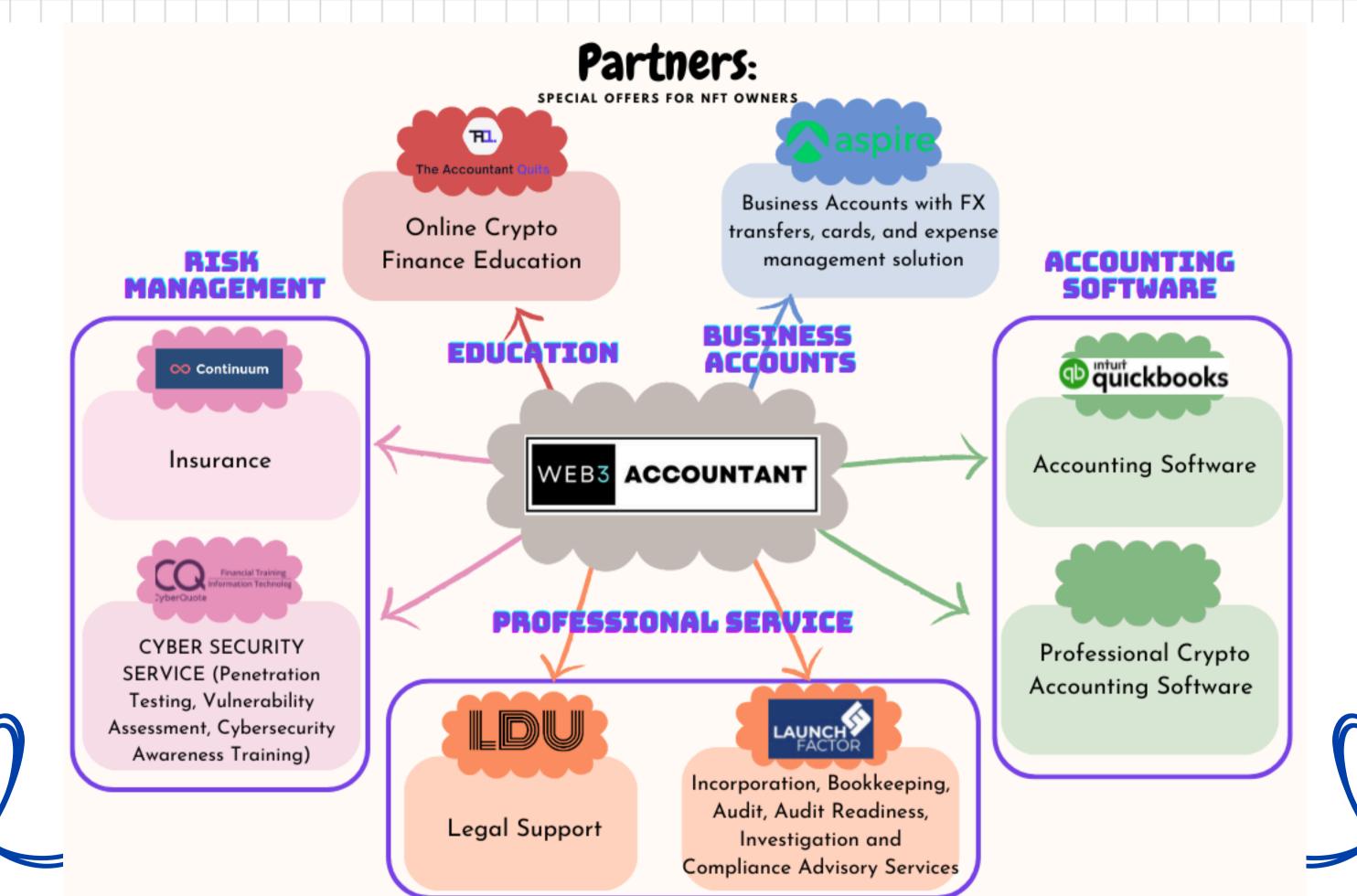
Group Partners

*









Our web3-friendly partners provide top-quality global services, carefully selected for their professionalism.



Launch Factor

Danny Lim, Co-Founder @Elaine_launchfactor(TG)

- Incorporation, Bookkeeping,
 Audit, Audit Readiness,
 Investigation and Compliance
 Advisory Services
- 10% discount on all investigation and compliance advisory service





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- 15% discount





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- Cyber Security Services
 (Penetration Testing,
 Vulnerability Assessment,
 Cybersecurity Awareness
 Training), Financial Training
 Service
- 10% discount for cyber security services







The Accountant Quits

The Accountant Quits

Umar Mallam Hassam, Founder @accountantquits(TG) umar@theaccountantquits.com

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 Education
- 20% discount





LDU

Daniel Lo, Co-Founder +65 8814 4271

- Legal support for web3 companies and projects
- Free 15-minute legal consult
 https://calendly.com/lduasia 15mins/launchfactor?
 month=2024-06



https://www.lduasia.com/



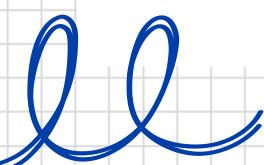
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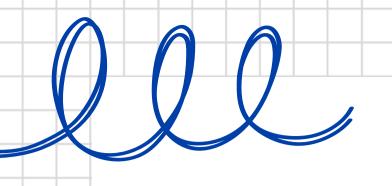
Jesalin, Partnerships Mgr jesalin.t@aspireapp.com +65 94551942

- Business Accounts with FX transfers, cards, and expense management solution
- Up to \$250 cash bonus in FX transactions and \$200 cash bonus on card spends



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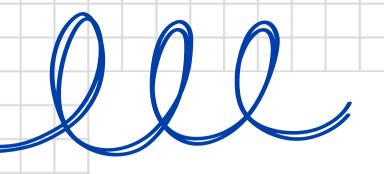
About Us



For Accountants By Accountants

Objective:

- 1. Sharing Web3.0 Compliance and Finance News
- 2. Sharing Web3.0 Compliance and Finance Events
- 3. Allow members to network in a casual setting



Thank you!

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