



BLOCKCHAIN
SOLUTIONS®

Unleashing the Potential of Blockchain Technology



Agenda



- **01. Company Background**
- **02. CerTraze**
- **03. Blockchain and its potential in the Government**
- **04. Appendix**



Company Background

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EXIT

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Company Background

“ Solve it, Block to Block ”



Founded in 2017



Offices in
Hong Kong
and Guangzhou



Team with 7+ years
experience

Our Team



Leo Chan

Head of IT

19+ years of IT experience
involvement in various
mission critical systems in
different business sectors



Jesse Co

General Manager

10+ years of
experience in finance and
real estate industries



Jase Leung

Founder & CEO

10+ years of
managerial experience
4+ years leading
as an entrepreneur.
Committed in pioneering
disruptive technology in the
Asia Pacific Region



Kanson Ng

Strategic Consultant

11+ years of managerial
experience in Business
Development and Marketing
in leading companies in
Asia.
7+ years of experience in IT
and Engineering industry



Ernest Lo

Advisor

Founder of Future Impact
Lab Limited, President of the
Hong Kong Internet of
Things Alliance, Awardee of
3 Best Paper Awards at IEEE
international wireless
communications conference

Media Exposures



科學園特使- 捷克外交部舉辦的
ICT / Cyber Security Sector



HK Government and University Projects

- **2021: Completing 2 projects of Hong Kong Gov't and University**
- **2019: Won 2 of 3 Hong Kong Gov't pilot blockchain projects**

機電工程署
EMSD



Blockchain Record Management System (BRMS)



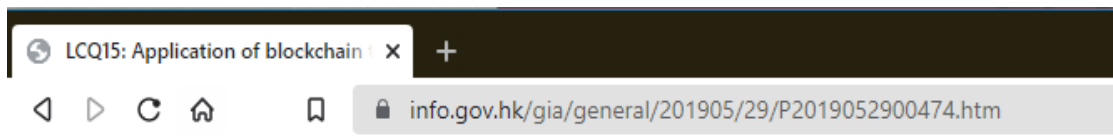
Department of Health

Traceability of Pharmaceutical Products



知識產權署

Transfer of Trademark Ownership



(2) and (3) As the Government understands, the adoption of blockchain technology in public services is still at the exploratory and initial stage. The Office of the Government Chief Information Officer (OGCIO) commenced in end **2018 a pilot application of blockchain technology project** to explore the applicability and benefits of adopting blockchain technology in government services. The OGCIO is discussing with four departments (the **Intellectual Property Department**, the Companies Registry, the Environment Protection Department and the **Department of Health**) on the implementation of pilot projects in areas including the transfer of intellectual property ownership, change in registered company information, etc. These pilot projects will be completed in phases from end 2019 to 2020.

Source: HKSAR Press Release May 29, 2019

<https://www.info.gov.hk/gia/general/201905/29/P2019052900474.htm>

Our Project - CerTraze



Blockchain Solutions provides unrivaled blockchain technology solutions and applications to our clients, transforming the business model by building revolutionary solutions. Our services brings enhanced transparency, security, and efficiency to client's businesses.

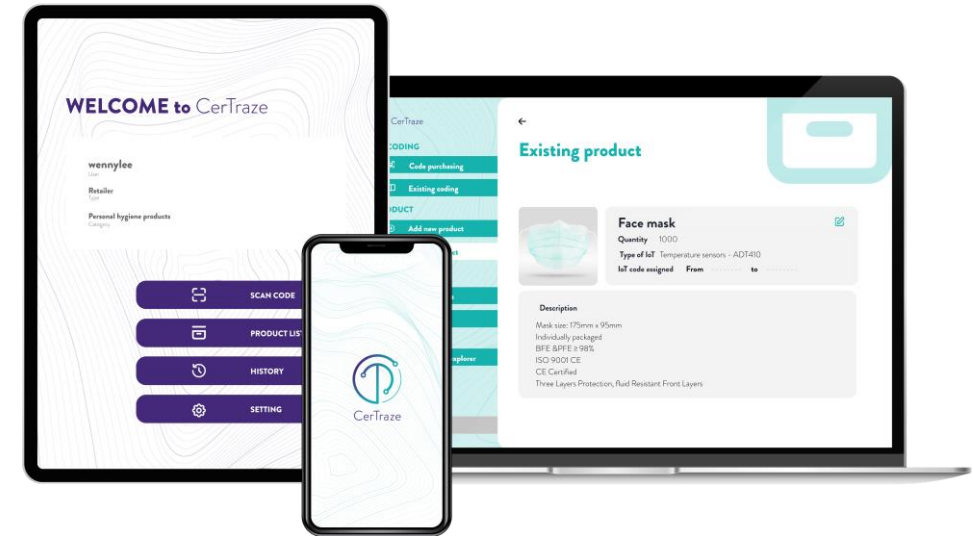
區塊鏈科研以頂尖的區塊鏈技術為客戶提供度身訂造的一站式解決方案，務求為客戶製造高效、安全及透明的營商環境。

A blockchain-based product tracing platform

- Tracing products easily, meanwhile benefiting from blockchain
 - immutability, traceability and security.

- Different ways to utilize the platform:

- Tracing product origin
- Gathering product status data from supply chain
- Ownership verification
- Tokenizing the product in long run
- Facilitating Secondary market



DEMO

- Can merge with different technologies (such as IoT, RFID, NFC, QR Code, etc.)

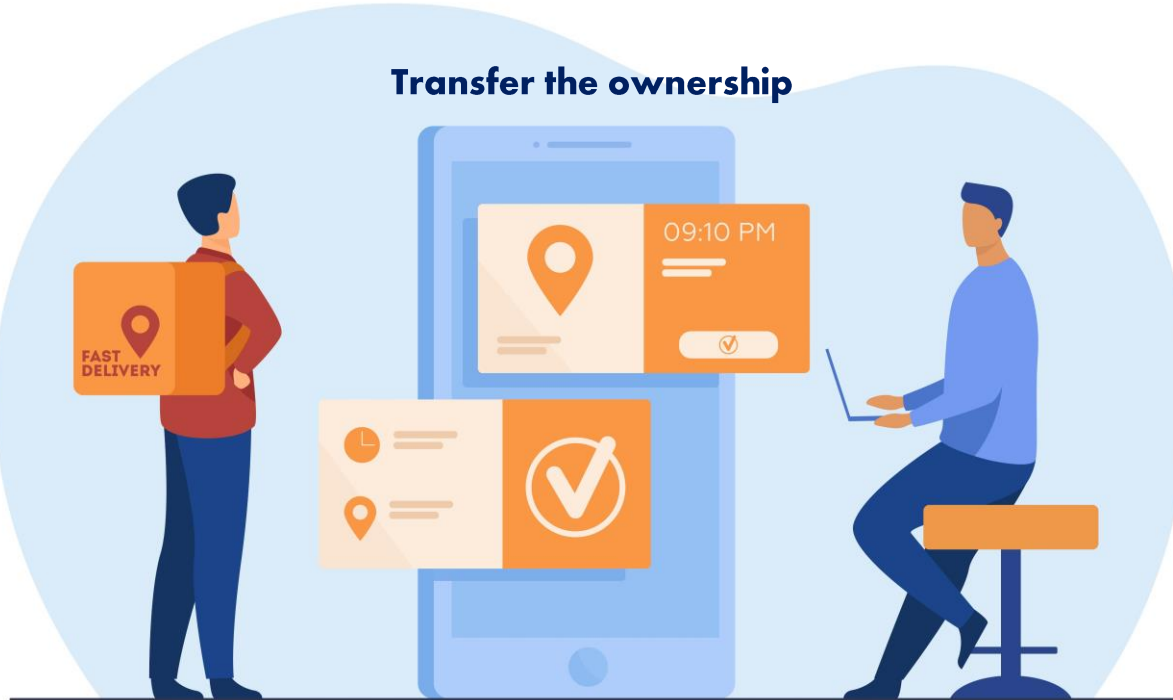
Project Highlights

Example: Gathering the product status data through the supply chain



Project Highlights CerTraze

Example: Serve as an ownership verification of the asset



Transfer the ownership



01 Assets Owner/Seller

Enter the platform and submit ownership transfer application

02 New Owner/Buyer

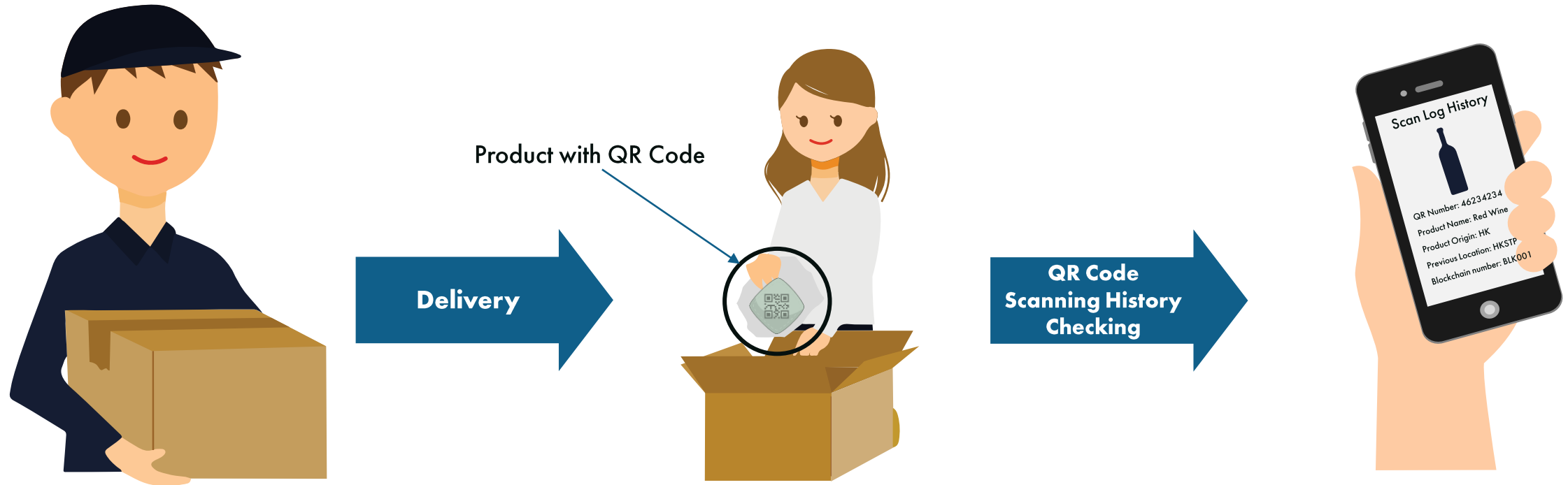
Enter the platform to accept the ownership transfer and input personal information

03 Authenticate the product

Owner can check the ownership history

Project Highlights CerTraze

Example: Tracing the product origin - enhancing the credibility of the product



01 Manufacturer/Supplier

Insert a QR Code inside the product package.

02 End user

Open the package and send the QR code

03 Authenticate the product

Check if there were other scanning history.
If yes, the product package was compromised.

Public Institution Project

HKUST - Traditional Chinese Medicines (TCMs) Production

- **The First** Traditional Chinese Medicine production tracing in Hong Kong
- **Cross-border** tracking
- Merge with **IoT** devices
- Tailor-made UI/UX for **HKUST** and **Farmers**
- Mobile **App** and **Web** Portal



Public Institution Project

HKUST - Traditional Chinese Medicines (TCMs) Production



香港科技大学 THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY											
用户: bsl Farm											
整地											
选地 ID	农场	时期	处理	深度	方法	基肥	操作员	建立用户	建立时间	最后更新时间	
10F50HL2	履翠	2021-09-30至2021-10-05	畦高压26厘米, 宽1米, 株距1.5-1.8米...	30厘米	选高50厘米以上、... 畦上无病虫害的苗为好, 将分枝...	按株行距3.5m×3.0m 挖好种植穴, 穴下部施基肥...	伍启潮	wujichao	2021-09-30	wujichao	2021-09-30
301QD45	禾兴	2021-09-29至2021-10-10	两小行合成一行, 中间小行的距离要保持...	20厘米	选用10%辛硫磷、15%毒死蜱、10%二嗪磷等...	氮5% (5公克)、磷10% (10公克)、钾5%...	孙二雄	sun2	2021-09-29	sun2	2021-09-30
50DKW32	霞石	2021-09-27至2021-10-01	在起好行的两旁挖穴, 每个穴的距离在2...	15厘米	30%辛硫磷微囊悬浮剂每亩1千克、30%毒死蜱微囊...	按株行距3.5m×3.0m 挖好种植穴, 穴下部施基肥...	丁秀兰	ding	2021-09-27	ding	2021-09-30
KLD0321D	顺发	2021-09-25至2021-09-30	播种深度在3-6公分左右...	15厘米	每亩用48%乐斯本EC500毫升, 拌土30千克...	金层施用在地时, 将有机肥料撒到地表, 随着...	林建志	linjianzhi	2021-09-25	linjianzhi	2021-09-28
OL0134FS	履翠	2021-08-03至2021-08-15	要深翻土壤, 深度在35厘米以上...	35厘米	自上而下顺坡拉一条直线, 而后按行距定点, 再各自...	集中施用除了大量的粗杂有机肥料外, 养分含量...	万金正	jinzheng	2021-08-03	jinzheng	2021-08-25
UJK90S21	禾兴	2021-08-01至2021-08-20	需要使用整地装置; 利用联动轴带动第...	30厘米	反坡3-5度左右, 并开挖宽30cm, 深25cm的竹...	采取固定植穴一定距离施肥, 作为待效肥随着作物根...	邵荣	shaorong	2021-08-01	shaorong	2021-08-14
903SF231	顺发	2021-07-31至2021-08-12	第一台轮通过版面时在斜坡块配合第一...	20厘米	采用每行水平隔梯整地, 梯带宽度2.2-2.5米...	开沟后施肥播种或在距沟渠5厘米处开沟施肥...	李金水	jinshui	2021-07-31	jinshui	2021-08-05

Video





Blockchain and its potential in the Government



Blockchain and its potential in the Government

- Important feature of Blockchain – **Immutability**
- Using blockchain can bring **Convenience** and **Confidence** to citizens
- iAM Smart x Blockchain?
 - A certification involves different parties / non-governmental certifying entities
 - Combining certificates into **one blockchain platform**



智方便
iAM Smart

Blockchain and its potential in the Government

iAM Smart x Blockchain

- Becoming a **card/license wallet** that could hold all certification and license of a person (including car plate, car insurance, HKID, student certification etc.)

Zero-Knowledge Proof

- Entities does not require to access said license/certification directly to acquire the information
- Blockchain's immutability: Reducing the necessity of face-to-face meetings for application / documentation (such as Student Loan application)



Thank You

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Shatin, N.T., Hong Kong

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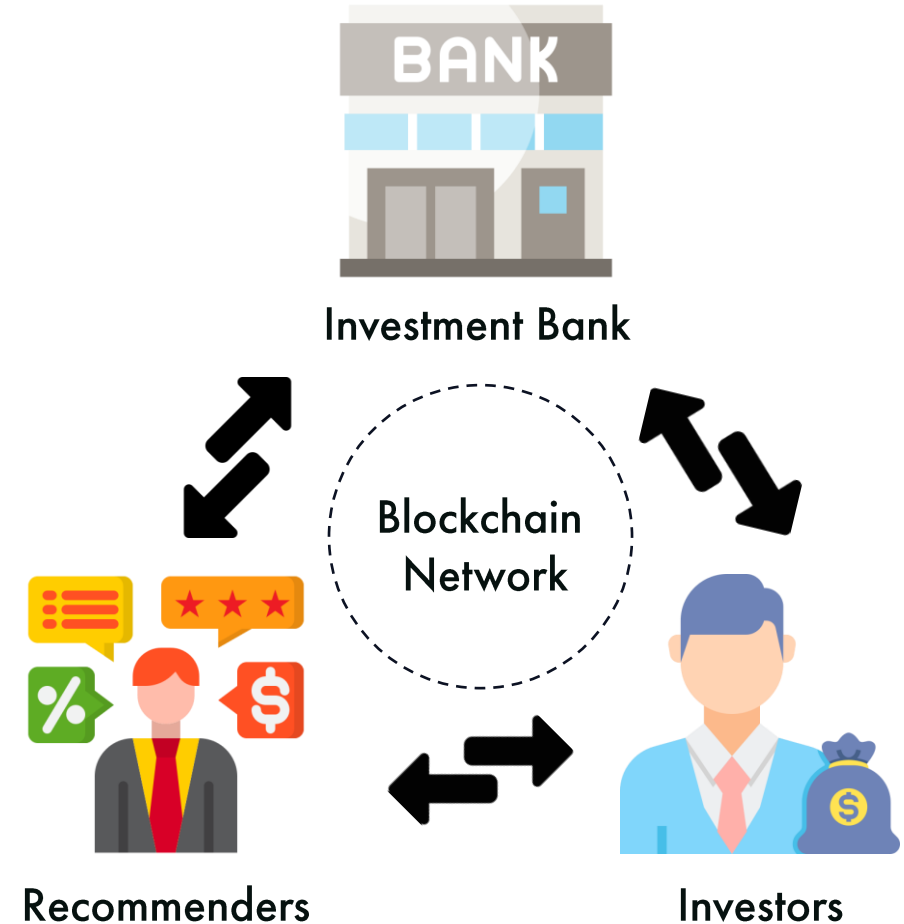
Appendix



A Blockchain based Referral System for Financial Institution

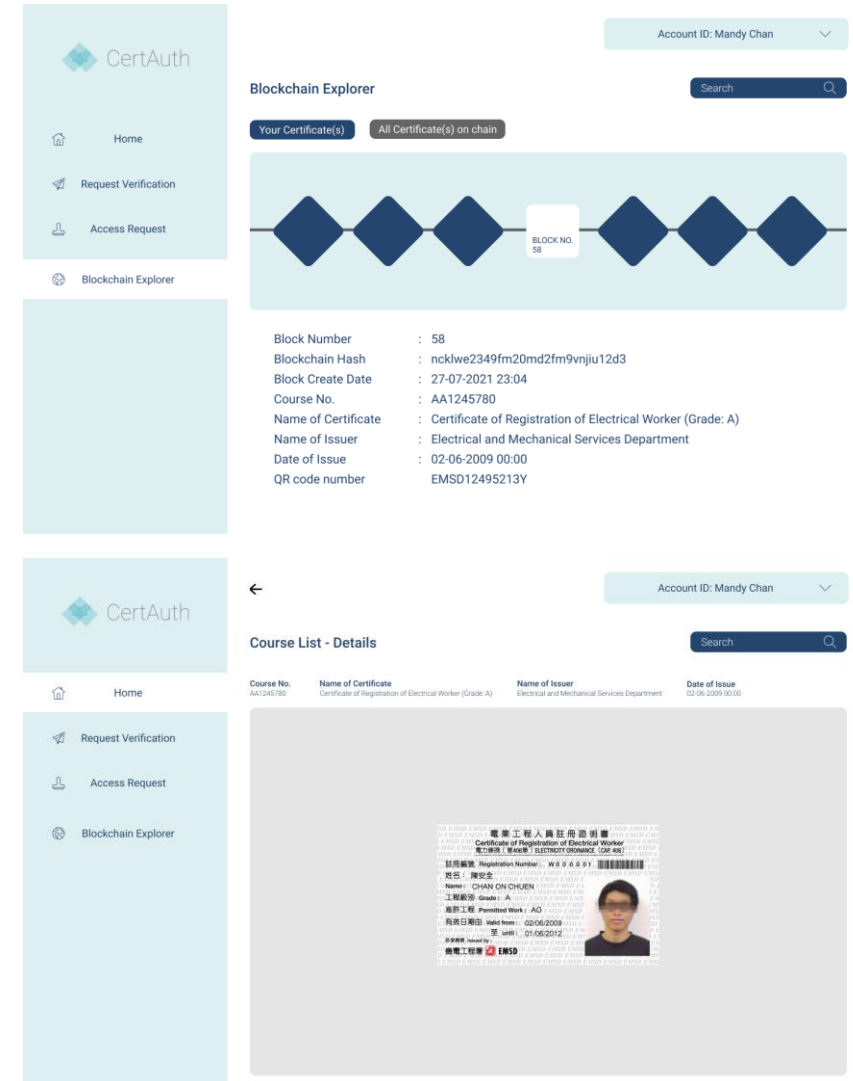
- Provides safe, reliable, traceable and immutable ledgers for all stakeholders (the investment banks, recommenders, investors).
- **Solve** the problems of **traditional contracts**:
Easy to be tampered, deleted, forged, leaked and hard to recover the information once was damaged.
- Virtual bank and related technology will be **linked-up**
- **Smart Contracts** are embedded to handle the commission placement process.
- Equalizing **bargaining power** between parties on the platform.

Hence, contracts are signed more intelligently, following credible cooperation, and eventually creating a **positive business environment**.



A Blockchain-enabled Certificate Verification Platform

- Convert traditional paper certificate and transcript into **digitalize certificate** secured into blockchain
- Prevent Fake Certificate in the market
- Provide permission and control to data owner
(Student and University)
- Adopt **XML signature technology** to digitally sign the data before storing in blockchain
- Link up job seeker and employer



The image displays two screenshots of the CertAuth web application interface. The top screenshot shows the 'Blockchain Explorer' page, which features a navigation menu on the left with options like Home, Request Verification, Access Request, and Blockchain Explorer. The main content area shows a search bar, account information for 'Mandy Chan', and a visual representation of a blockchain with a highlighted block containing 'BLOCK NO. 58'. Below this, a table lists certificate details: Block Number (58), Blockchain Hash (ncklwe2349fm20md2fm9vnju12d3), Block Create Date (27-07-2021 23:04), Course No. (AA1245780), Name of Certificate (Certificate of Registration of Electrical Worker (Grade: A)), Name of Issuer (Electrical and Mechanical Services Department), Date of Issue (02-06-2009 00:00), and QR code number (EMSD12495213Y).

The bottom screenshot shows the 'Course List - Details' page, which has a similar navigation menu. It displays a table with columns for Course No., Name of Certificate, Name of Issuer, and Date of Issue. The table contains one entry: Course No. AA1245780, Name of Certificate Certificate of Registration of Electrical Worker (Grade: A), Name of Issuer Electrical and Mechanical Services Department, and Date of Issue 02-06-2009 00:00. Below the table is a large image of a digital certificate for 'CHAN ON CHUEN' (陳安生), a Grade A Electrical Worker, issued by EMSD on 02-06-2009. The certificate includes a QR code and a photo of the holder.

Project Highlights

The power to secure your business



- Shortlisted in API Eco-booster organized by HSBC and HKSTP
- Adopting Hyperledger Fabric Blockchain Network to build a consortium network for data collaboration across different parties.
- Aim to enhance data security and privacy.
- Simplifying the manual work of HSBC



Intra-bank blockchain network



Inter-bank blockchain network