Blockchain in the Public Sector

The Dutch approach

Marloes Pomp

marloes@blockchainprojects.nl

BLOCKCHAIN PROJECTS
DUTCH GOVERNMENT

BLOCKCHAIN PROJECTS

DUTCH GOVERNMENT

MINISTRY OF INTERIOR AFFAIRS

Conducted research into the potential powerful combination of digital identity and Blockchain.

CITY OF THE HAGUE

Developed a significantly improved (and highly automatized) regulation for subsidies on electric vehicles.

MINISTRY OF JUSTICE

Did research to the possibilities to use Blockchain for the execution of the judicial decisions of juvenile courts.

CAK

Created a blockchain process to make the financial and administrative process for subsidised public healthcare services more efficient.

COURT OF AUDIT

Investigated whether the role as controller of 240 billion Euros of yearly expenditures by the central government would change as the result of blockchain based administrations.

CIBG

Did research into the ways to use blockchain as (part of) a register for medical instruments.

HUMAN ENVIRONMENT AND TRANSPORT INSPECTORATE

Rethought the administrative and logistical process of transporting toxic waste from the Netherlands to another EU State.

THE INSPECTORATE OF THE MINISTRY OF EMPLOYMENT

Created a use case for the improvement of data sharing with several other governmental organizations in order to improve detection of fraud, exploitation and organised crime within the chain of work and income.

HUMAN ENVIRONMENT AND TRANSPORT INSPECTORATE

Developed a blockchain based system for the tracking of working and resting

MINISTRY OF FOREIGN AFFAIRS

Developed a use case for the improvement of financial arrangements that involved multiple stakeholders.

CHAMBER OF COMMERCE

Developed the business case for a blockchain service to make it possible to quickly establish a temporary foundation.

CITY OF AMSTERDAM

Looked into more simple and efficient ways to apply for a personal healthcare budget than the current complex financial and administrative process.

STICHTSE VECHT

Streamlined the process of requesting specific healthcare service (for example: wheel chair, stair lift) that requires data sharing with several other governmental organizations and healthcare organisations.

ROTTERDAM

Developed a blockchain process to collect tourist tax more efficiently.

DRECHTSTEDEN

Created a use case for blockchain to streamline the process of the assignment of parking licenses for disabled citizens.

CITY OF SCHIEDAM

Developed a blockchain system to streamline the internal financial administration.

CITY OF SCHIEDAM

BAR ORGANISATION

Rethought the permit system for organizers of larger events (concerts for example) which

CITY OF EINDHOVEN

Developed a blockchain

CITY OF ZAANSTAD

Established a procedure for a DIY marriage and divorce on the blockchain.

HEALTHCARE INSTITUTE

Built a prototype on Ethereum to create a clear overview of authorisations in the healthcare process.

LEGAL AID BOARD

Developed a use case for a faster, more secure automated process for the attribution of legal support.

TAX AND CUSTOMS ADMINISTRATION

Created a use case that makes it possible to redistribute (income) tax money as soon as it gets deducted from an employee's income.

PROVINCE OF NOORD-BRABANT

Developed a use case that showed that it would be possible to reduce the time to get through the administrative and financial processes for subsidies from 13 weeks to 13 minutes.

CITY OF ZUIDHORN

Developed a prototype of a blockchain based service to make it easier to get subsidies from different aid organizations.

JUSTID (JUDICIAL INFORMATION SERVICES)

Worked out a proof of concept for a log of what information was shared with whom at what time during a criminal trial proceedings.

CADASTRE, LAND REGISTRY AND MAPPING AGENCY

Developed a use case for Blockchain based registration of ships with the Delft University of Technology.

CITY OF UTRECHT

Created a use case for the improvement of data sharing within the waste sector.

Dutch Blockchain Coalition

connect and create

About DBC | News | Agenda | Coalitionpartners | FAQ | Downloads

Enter your search term...

Digital Identities | Conditions | Human Capital | Usecases | Vision document

Blockchain partnerships in Brussels

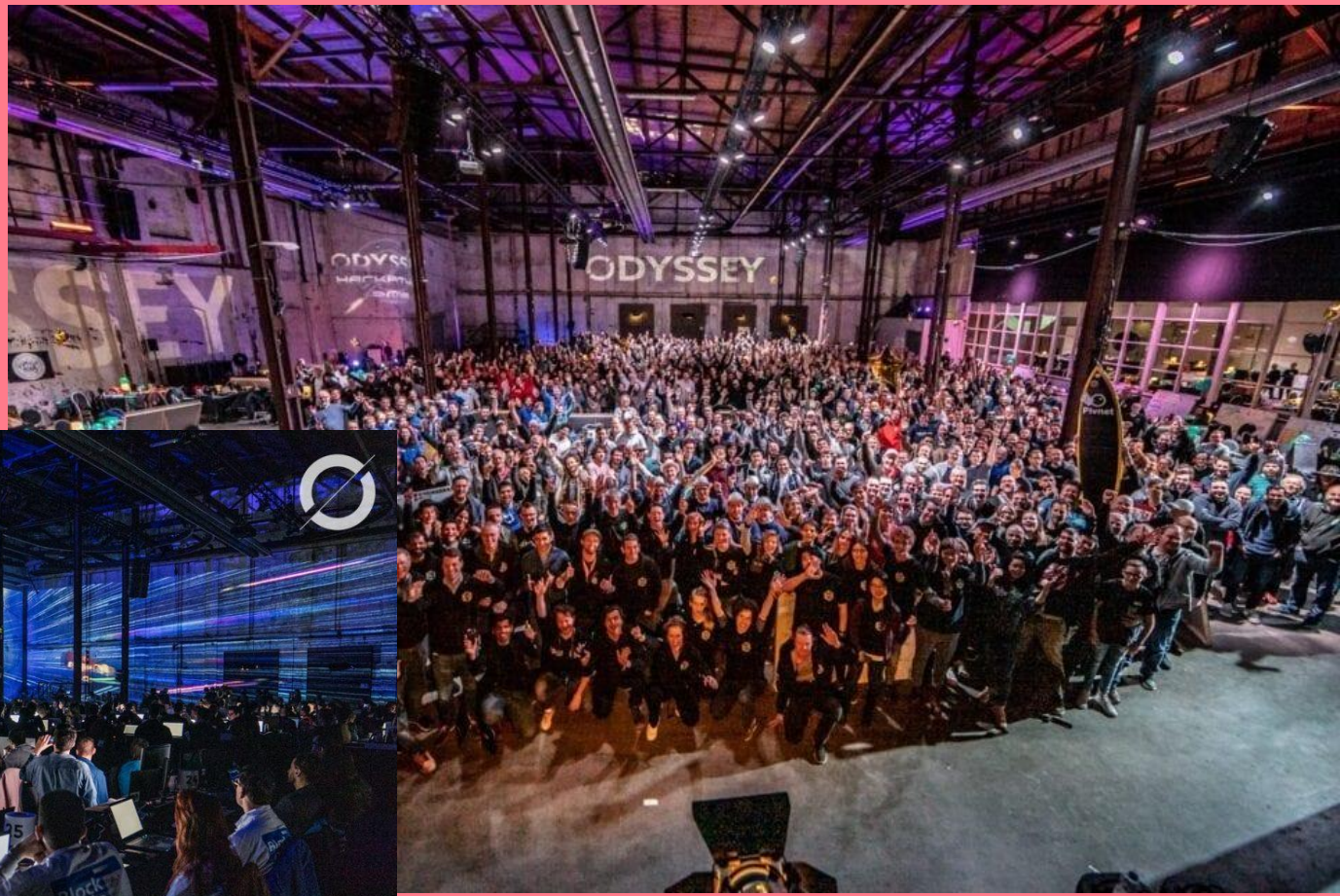
21 December 2018

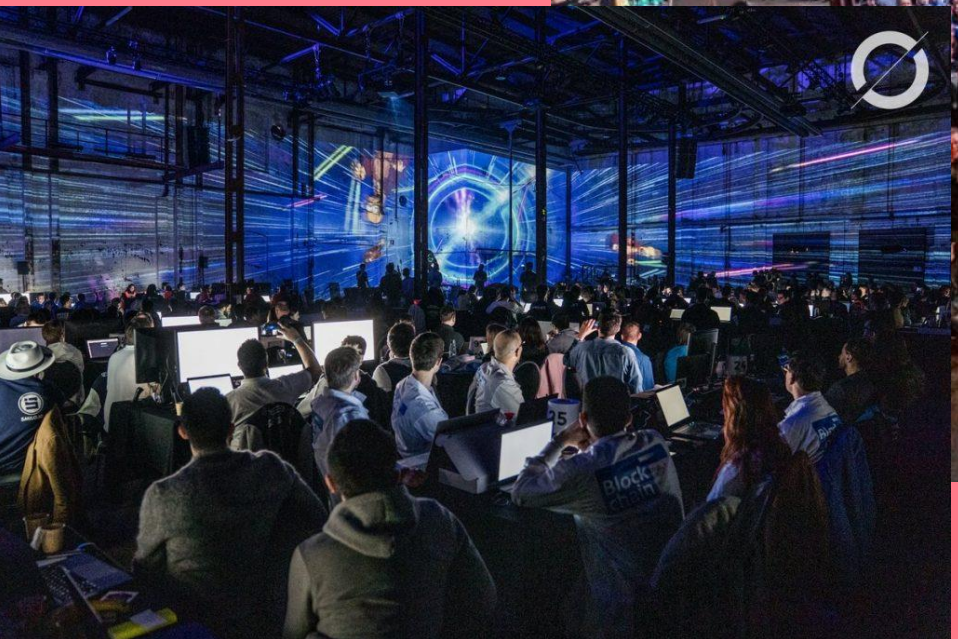
At EU level too, parties from all corners of society are working together on blockchain....

Dutch Blockchain Coalition presents vision and societal use cases

07 December 2018

https://www.youtube.com/watch?v=wnhpSLb30BU&feature=youtu.be





Dutch Blockchain Coalition

connect and create

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Blockchain partnerships in Brussels

21 December 2018

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Dutch Blockchain Coalition presents vision and societal use cases

07 December 2018

Vision document

The Dutch Blockchain Coalition originated from a unique collaboration between industry, government and education, also known as the 'triple helix'. This cooperation already yields the first results in practice; This...

Read more >

Self-Sovereign Identity (SSI)

A self-sovereign identity (SSI) is the driving force for a supple interaction in the online economy with a direct impact on the physical world. That is only possible with government interactions and therefore partic...

Read more >

Logistics

Blockcain offers many opportunities for logistics chains: ...

Read more >

Educational certificates and diplomas

A student who wants to continue his or her studies at a foreign institution faces the challenge of sharing the diploma gained or required and getting this recognised as authentic. This mostly paper-based procedure o...

Read more >

Pension

The changing employment market in which Dutch citizens change jobs with increasing speed and frequency, poses considerable administrative challenges for pension schemes that can result in uncertainties for pensioner...

Read more >

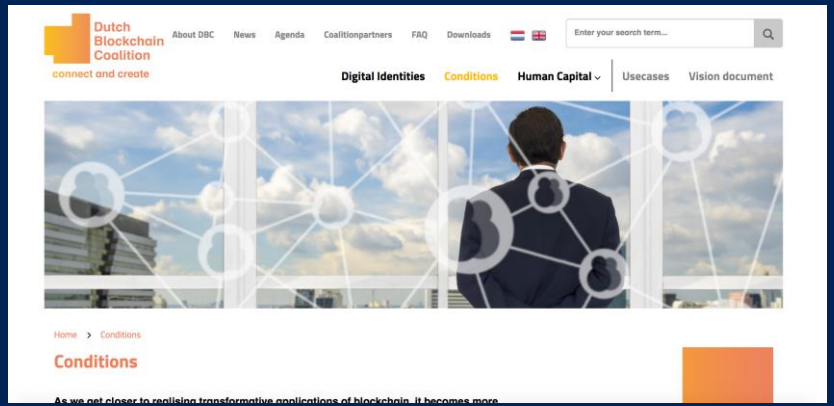
Compliance

Subsidies are an important tool for ensuring that we organise society in the way that we want. For example, subsidies for green energy, for farmers who produce what we need or for helping people who need help. ...

Read more >

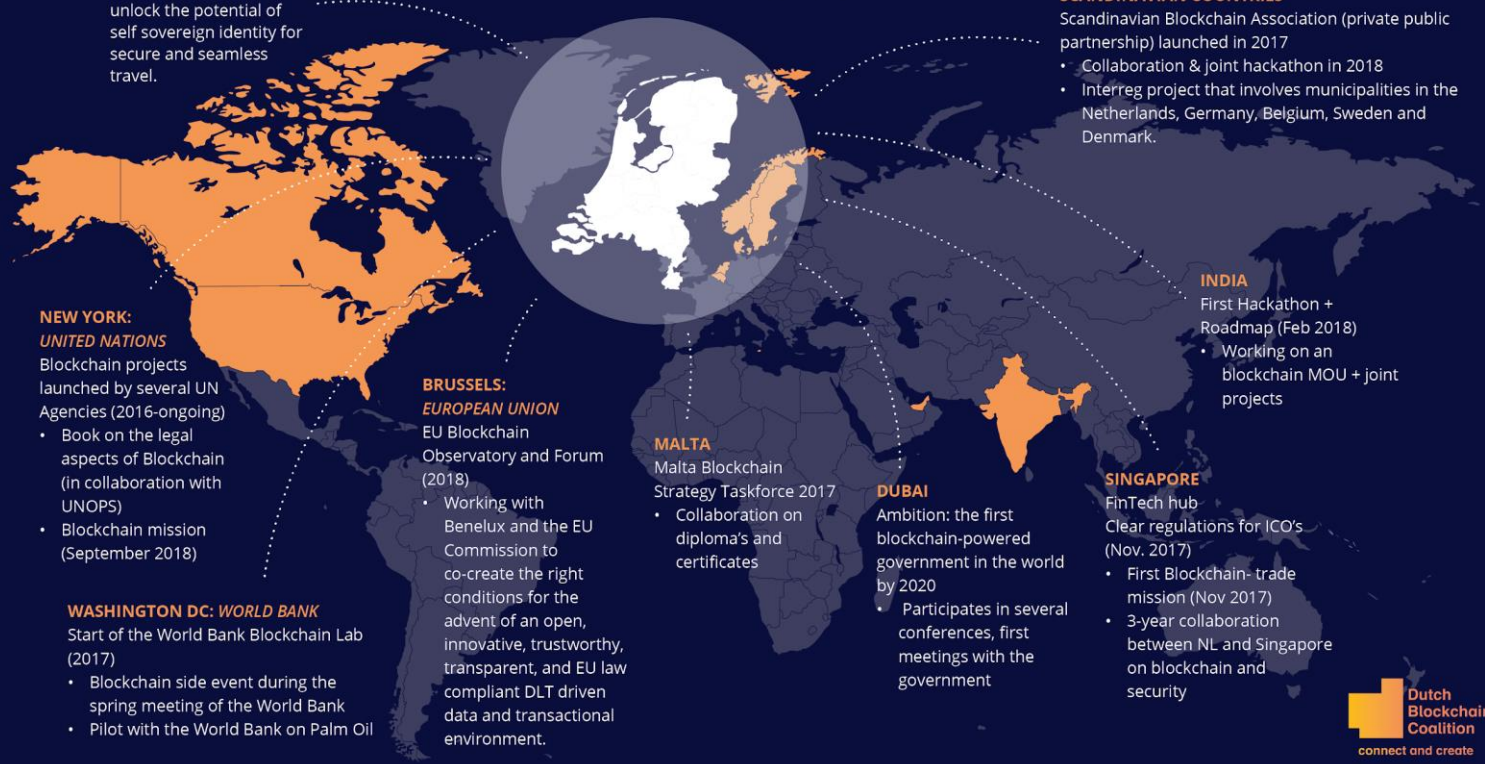
Workgroups 2019

- Cyber Security
- Legal
- Governance
- Cabinet & Board Level Engagement
- Research Agenda
- Human Capital Agenda



The Netherlands' **International Blockchain Collaboration**

Do you want to add a public sector blockchain ecosystem to the map?
Send us an email:
koen@blockchainprojects.nl
marloes@blockchainprojects.nl



THE NETHERLANDS

- Dutch Blockchain Coalition (private public partnership) launched in 2016
- 50 blockchain projects runned by the Dutch Government

CANADA
Working together to unlock the potential of self sovereign identity for secure and seamless travel.

SCANDINAVIAN COUNTRIES
Scandinavian Blockchain Association (private public partnership) launched in 2017
- Collaboration & joint hackathon in 2018
- Interreg project that involves municipalities in the Netherlands, Germany, Belgium, Sweden and Denmark.

INDIA
First Hackathon + Roadmap (Feb 2018)
- Working on an blockchain MOU + joint projects

NEW YORK: *UNITED NATIONS*
Blockchain projects launched by several UN Agencies (2016-ongoing)
- Book on the legal aspects of Blockchain (in collaboration with UNOPS)
- Blockchain mission (September 2018)

BRUSSELS: *EUROPEAN UNION*
EU Blockchain Observatory and Forum (2018)
- Working with Benelux and the EU Commission to co-create the right conditions for the advent of an open, innovative, trustworthy, transparent, and EU law compliant DLT driven data and transactional environment.

MALTA
Malta Blockchain Strategy Taskforce 2017
- Collaboration on diploma's and certificates

DUBAI
Ambition: the first blockchain-powered government in the world by 2020
- Participates in several conferences, first meetings with the government

SINGAPORE
FinTech hub
Clear regulations for ICO's (Nov. 2017)
- First Blockchain- trade mission (Nov 2017)
- 3-year collaboration between NL and Singapore on blockchain and security

WASHINGTON DC: *WORLD BANK*
Start of the World Bank Blockchain Lab (2017)
- Blockchain side event during the spring meeting of the World Bank
- Pilot with the World Bank on Palm Oil

Dutch Blockchain Coalition
connect and create

EUROPEAN BLOCKCHAIN PARTNERSHIP
(PUBLIC AUTHORITIES)

INTERNATIONAL ASSOCIATION OF TRUSTED BLOCKCHAIN APPLICATIONS (IATBA)
(INDUSTRY, SMEs, CIVIL SOCIETY)

USE-CASES / CROSS-BORDER DIGITAL PUBLIC SERVICES

GUIDING PRINCIPLES AND TECHNICAL SPECIFICATIONS

GOVERNANCE MODEL FOR EBSI

TRANSPARENT AND INCLUSIVE GOVERNANCE OF BLOCKCHAIN INFRASTRUCTURES

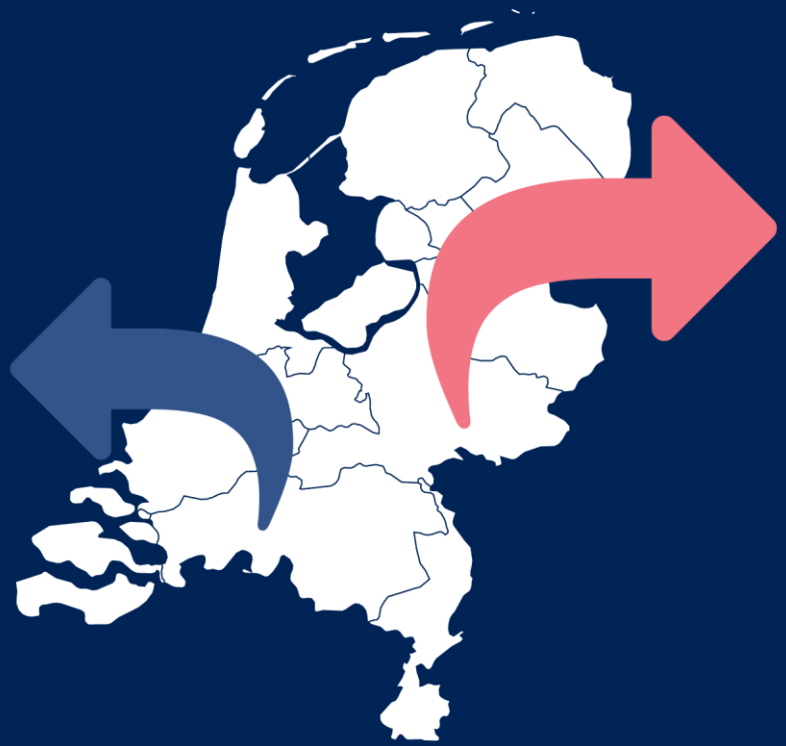
DIALOGUE WITH PUBLIC AUTHORITIES AND REGULATORS

PROMOTE COMPLIANCE WITH EU ACQUIS

SECTORAL SPECIFICATIONS / USE-CASES (PRIVATE-SECTOR APPLICATIONS)

DEVELOPMENT OF THE EUROPEAN BLOCKCHAIN SERVICES INFRASTRUCTURE (EBSI)

GLOBAL GOLD-STANDARD FOR BLOCKCHAIN TECHNOLOGY APPLICATIONS



Export knowledge to other countries:

1. **Incoming visits**
2. **Blockchain/ AI Trade missions**
3. **Cross-border projects**
4. **Partners in International Business**
5. **Education**
6. **Mentors**
7. **Hackatons**

https://blockchaininnovationconference.com/

5:51

Rabobank

randstad

Ministerie van Onderwijs, Cultuu
Wetenschap

Claims & Zero Knowledge Proof

In Debt?

Income above or below ….?

Do you live in Amsterdam, Yes or no?

…..

https://www.youtube.com/watch?time_continue=28&v=hxbgsamAtW8

https://www.youtube.com/watch?v=7BQnlv5VONo

Stakeholders

- People with debts
- Municipality
- CJIB

Componenten

- App voor the citizens
- Dashboard for the municipality
- API CJIB
- Wallet for each stakeholder
- Blockchain

Step 1

- A citizen wants to receive a proof from the municipality that he she is in debt in order to share it with various agencies such as the CJIB

- To do this, the citizen downloads the SSI app

Step 2

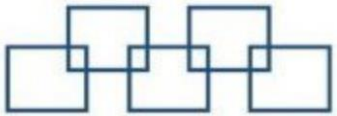
- Citizens goes to the municipality's debt counseling for physical identification.

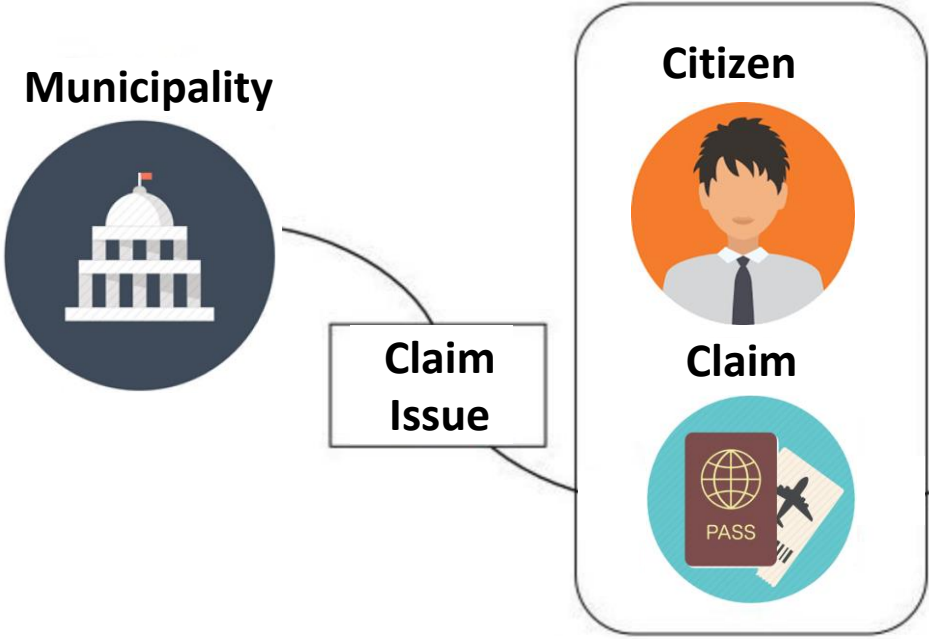
- When the identification is positive, and the debts are proven, the citizen makes a secure connection with the municipality by scanning a QR code on the municipality's dashboard, with the SSI app

Citizen

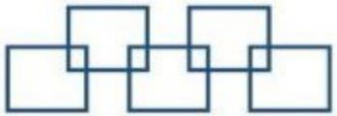
Claim

Ledger





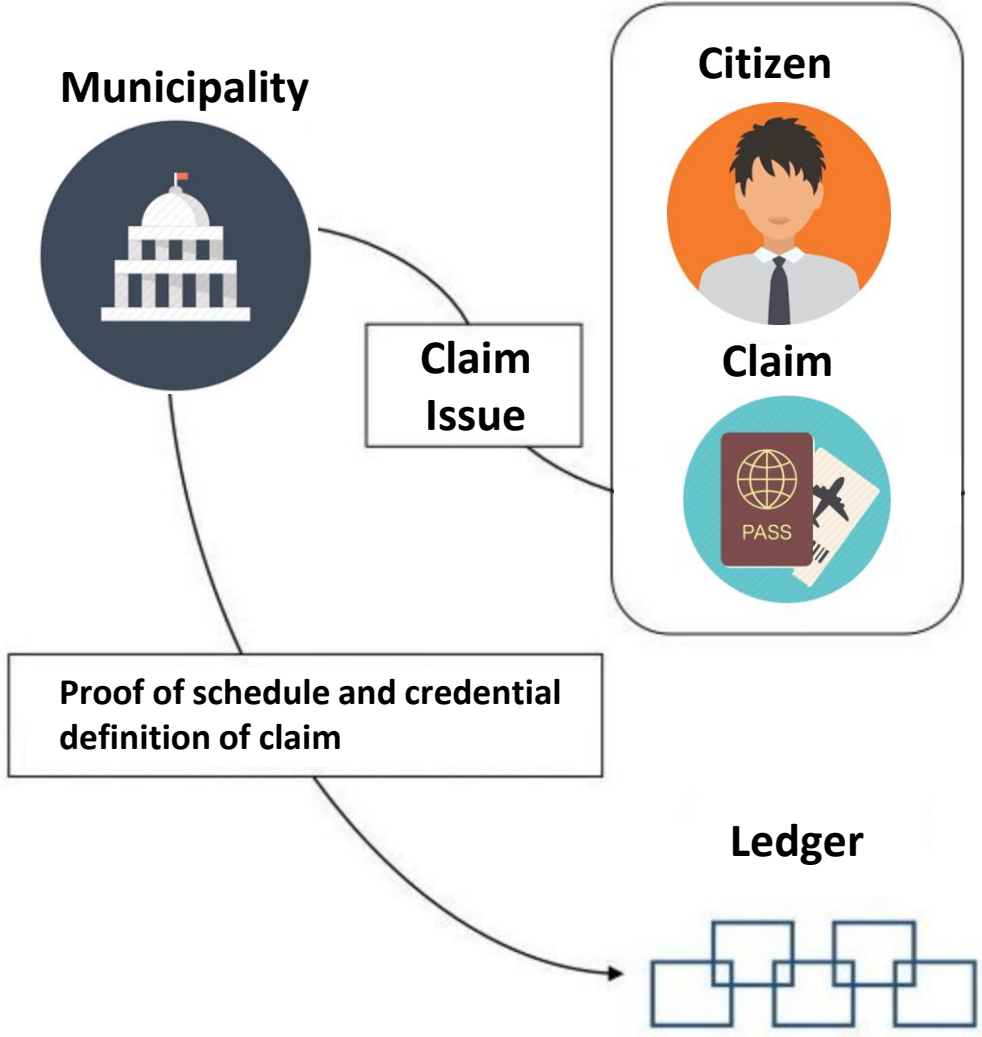
Ledger



Step 3

- Via the secure connection, the citizen receives proof from the municipality that he/she gets debt assistance from the municipality.

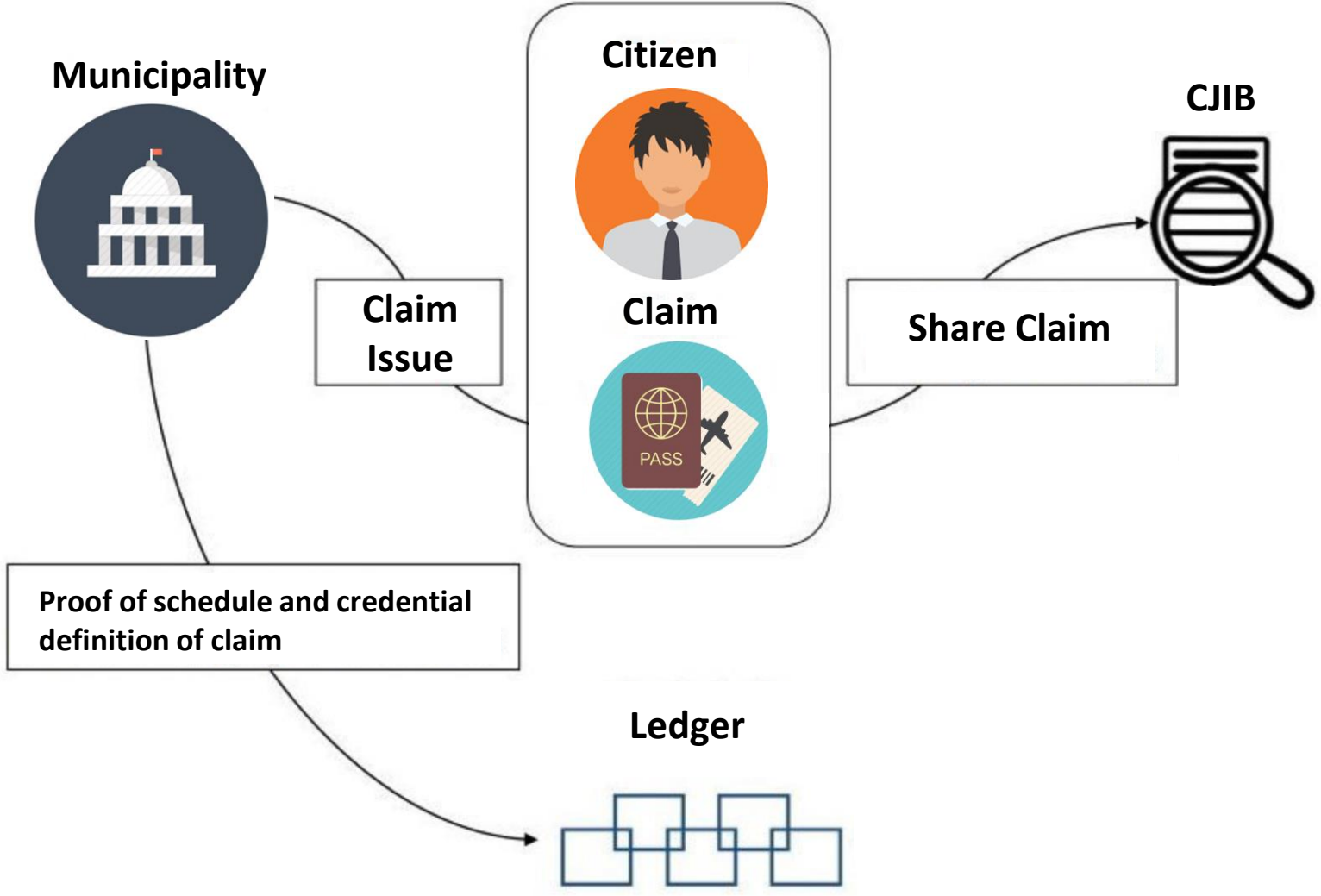
- This proof is signed with the key of the municipality, and contains the reference to the scheme that the municipality uses, and the so-called credential definition.


Municipality
Citizen
Claim
Issue
Claim
PASS
Proof of schedule and credential definition of claim
Ledger

Step 4

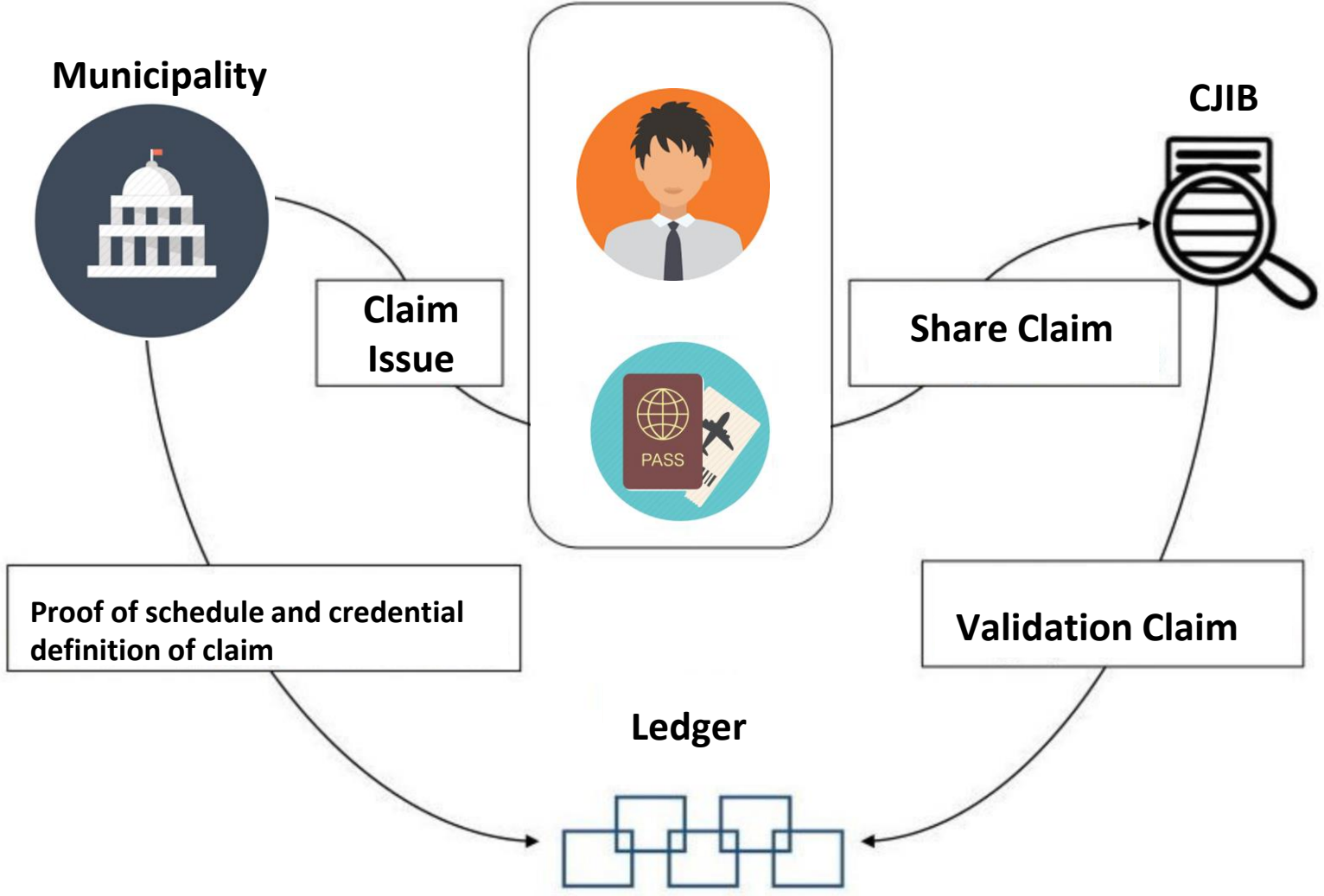
The citizen can now use the evidence in the wallet to prove to the CJIB, for example, that he she is under the supervision of debt counseling

To do this, the citizen gives the CJIB permission via the app to check this, and can also easily withdraw it (revoke)


Municipality
Citizen
CJIB
Claim Issue
Claim
Share Claim
PASS
Proof of schedule and credential definition of claim
Ledger

Step 5.

- The CJIB can now check the data based on the permission and Zero Knowledge Proof.
- The CJIB can check via the blockchain whether the scheme used and the attributes (credential definition) have been issued by the municipality.


Municipality
CJIB
Claim Issue
Share Claim
PASS
Proof of schedule and credential definition of claim
Validation Claim
Ledger

Result

Citizens can communicate their debt position to selected parties in a digital way

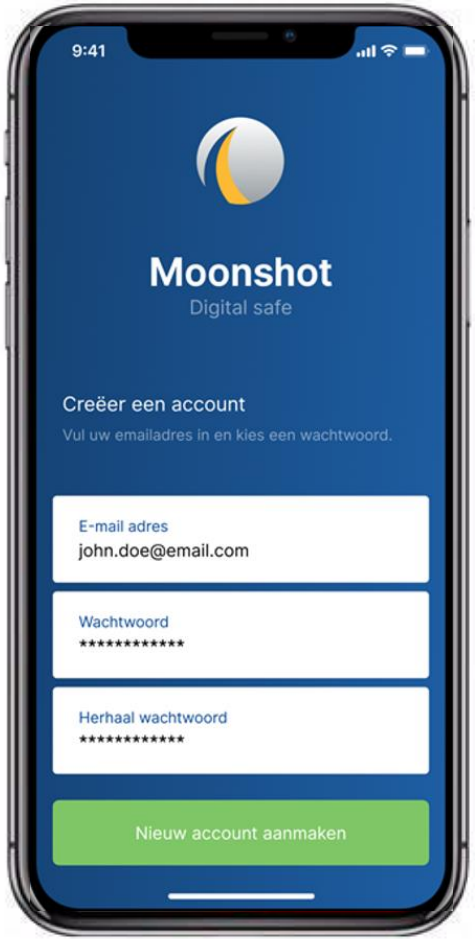
Burger has control over his own data

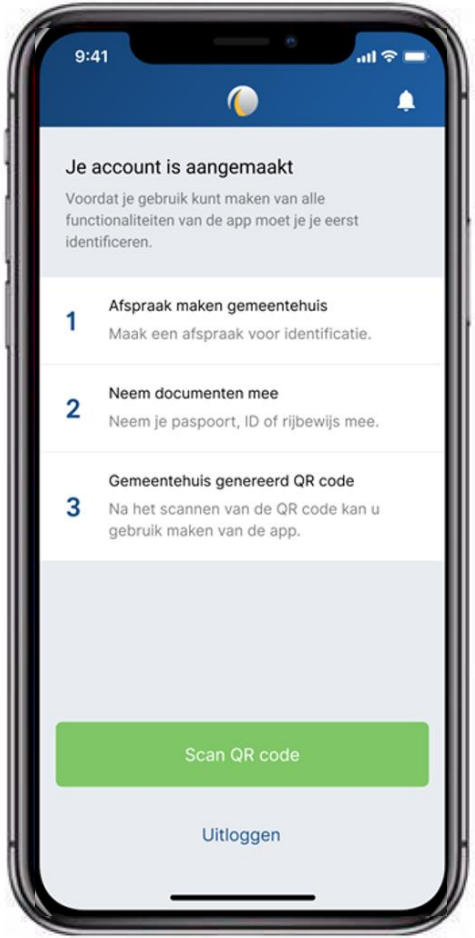
The municipality can make the debt position of a citizen available in a digital and secure way

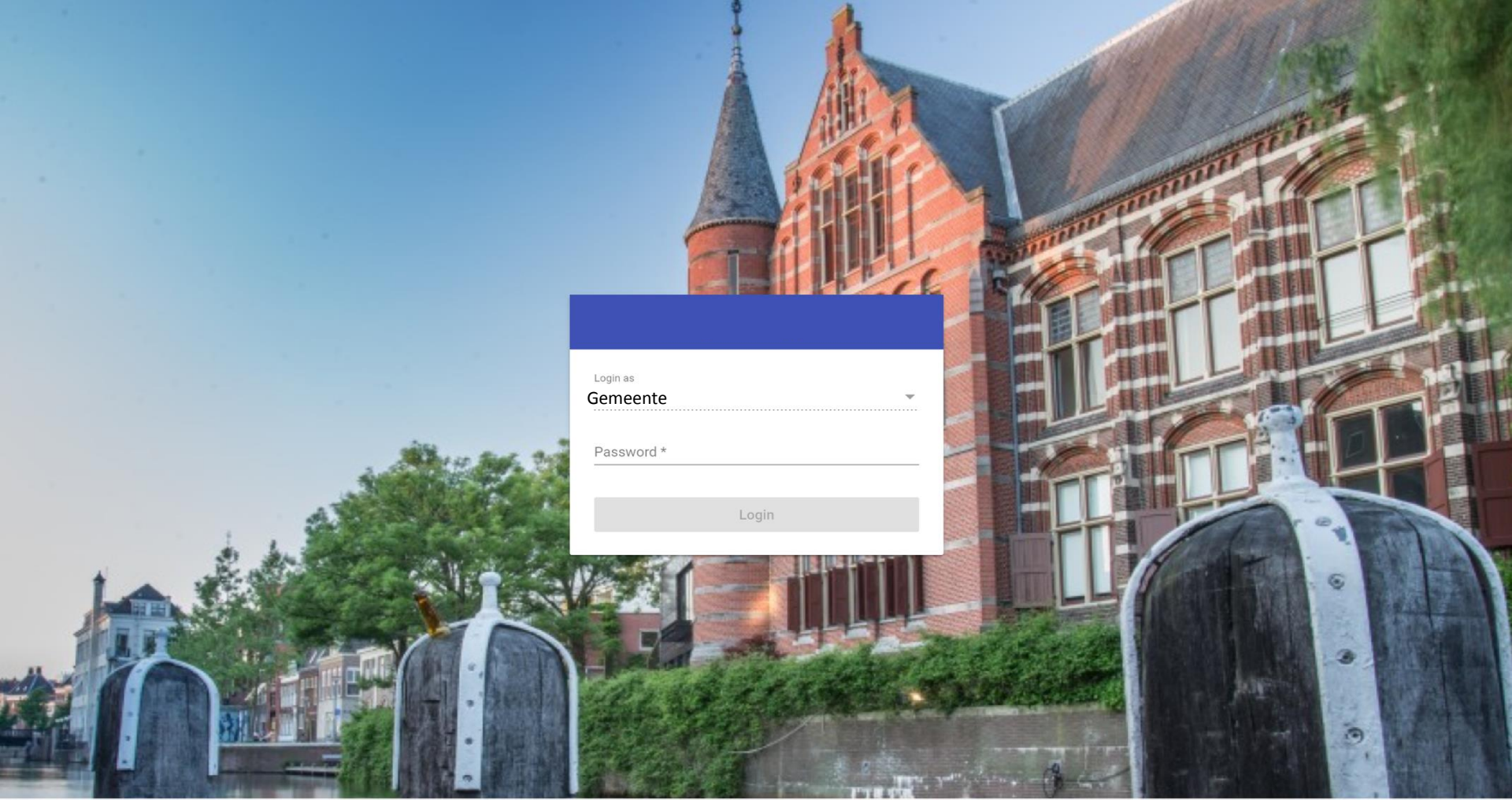
CJIB can check data in an GDPR proof manner and on a need to know basis

LedgerLeopard

Case Demo


9:41
Moonshot
Digital safe
Creëer een account
Vul uw emailadres in en kies een wachtwoord.
E-mail adres
john.doe@email.com
Wachtwoord
****
Herhaal wachtwoord
****
Nieuw account aanmaken

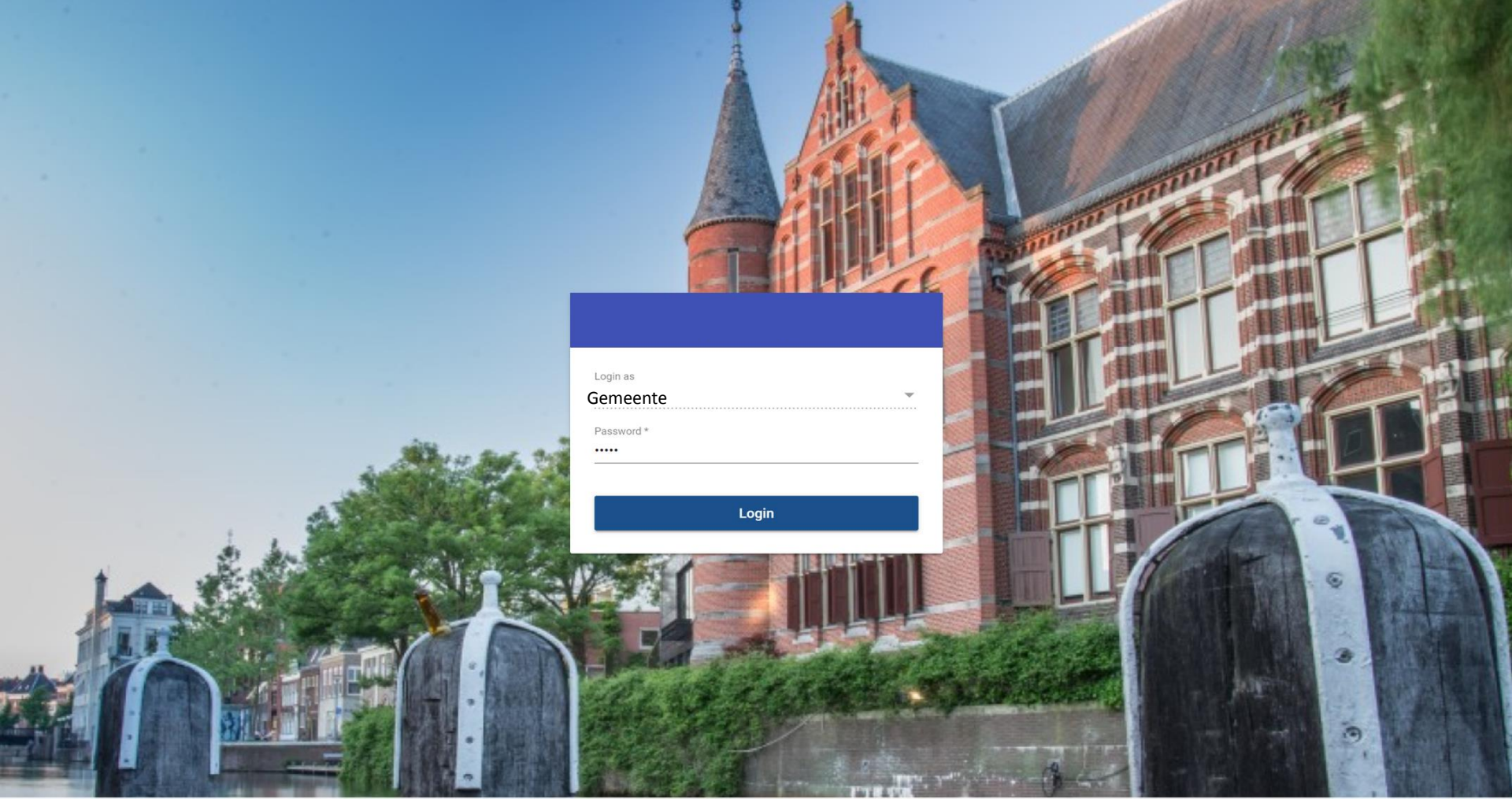

9:41
Je account is aangemaakt
Voordat je gebruik kunt maken van alle functionaliteiten van de app moet je je eerst identificeren.
1
Afspraak maken gemeentehuis
Maak een afspraak voor identificatie.
2
Neem documenten mee
Neem je paspoort, ID of rijbewijs mee.
3
Gemeentehuis genereerd QR code
Na het scannen van de QR code kan u gebruik maken van de app.
Scan QR code
Uitloggen



Centraal Justitieel Incassobureau
Ministerie van Justitie en Veiligheid

TU Delft

LedgerLeopard



Centraal Justitieel Incassobureau
Ministerie van Justitie en Veiligheid

TU Delft

LedgerLeopard

Paspoorten

List of passports

Data gedeeld	BSN	Document nummer	Voornaam	Achternaam	Geboortedatum	Geslacht	Datum	
⊘	168980149	SPECI2014	Doe	John	29-12-1980	Male	30-07-2016	⋮

+

Paspoorten

List of passports

Data gedeeld	BSN	Document nummer	Voornaam	Achternaam	Geboortedatum	Geslacht	Datum
⊘	168980149	SPECI2014	Doe	John	29-12-1980	Male	30-07-2016

Onboard
Edit
Delete

Items per page: 20 1 - 9 of 9

+

CJIB

Passports | Transactions | Logout

Onboarding

List of passports » Passport » Onboarding

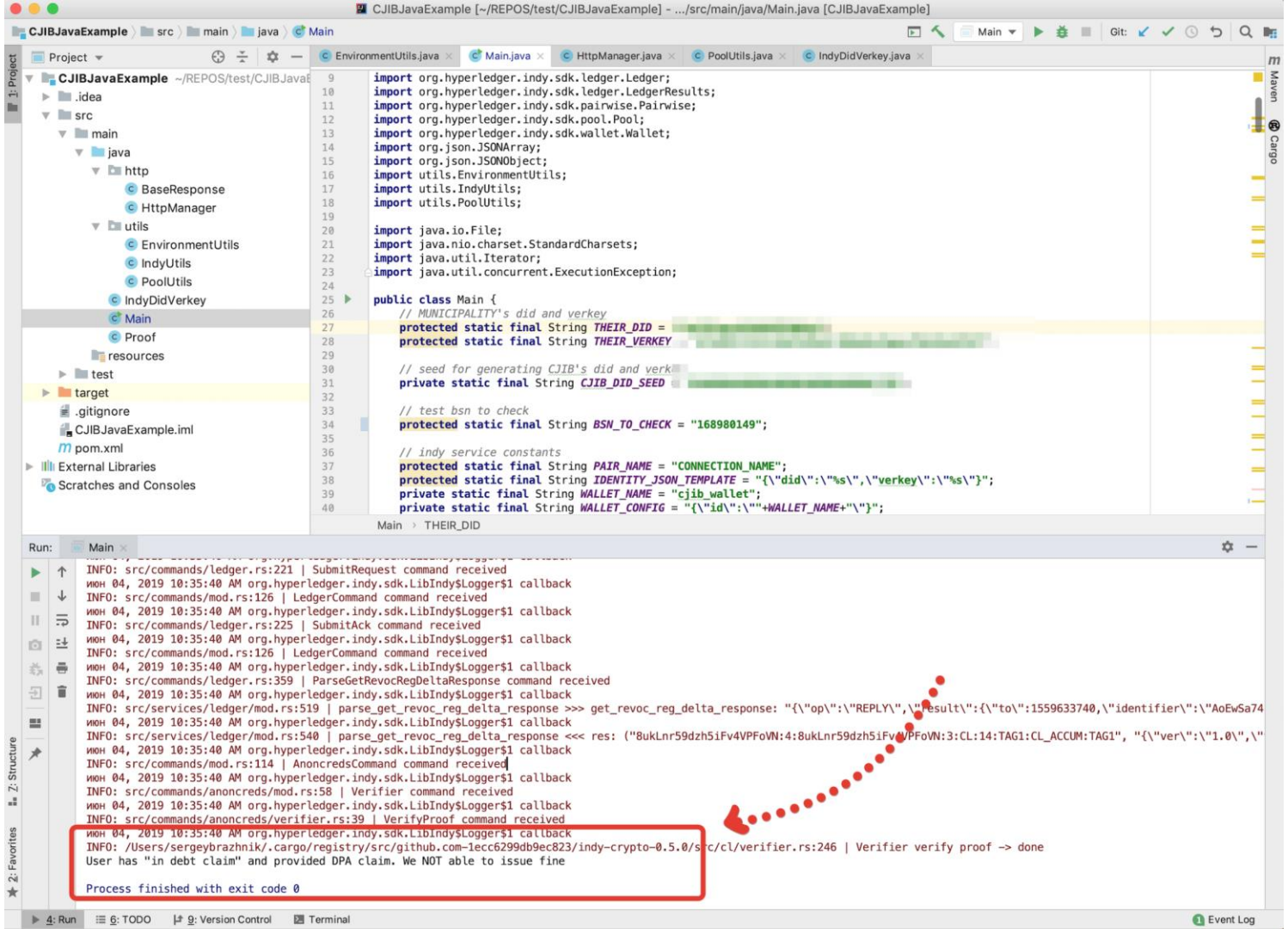
QR code


9:41
Scan de QR-code
Terug


9:41
TestFlight
10:30
74 %
NLD
NLD
Lengte
1.8
BSN
168980149
Geboorte
Amsterdam
Nationaliteit
Nederland
Voornaam
Doe
Achternaam
John
Datum
2021-07-30
Geslacht
2016-07-30
Documentnummer
male
Uitgifte
SPECI2014
Gemeente
Mijn data delen met CJIB
Alles klopt
Cancel


9:41
TestFlight
10:30
74 %
NLD
NLD
Lengte
1.8
BSN
168980149
Geboorte
Amsterdam
Nationaliteit
Nederland
Voor
Doe
Acht
John
Datum
2021-07-30
Geslacht
2016-07-30
Documentnummer
male
Uitgifte
SPECI2014
Gemeente
Data gedeeld met CJIB
Mijn data delen met CJIB
Alles klopt
Cancel

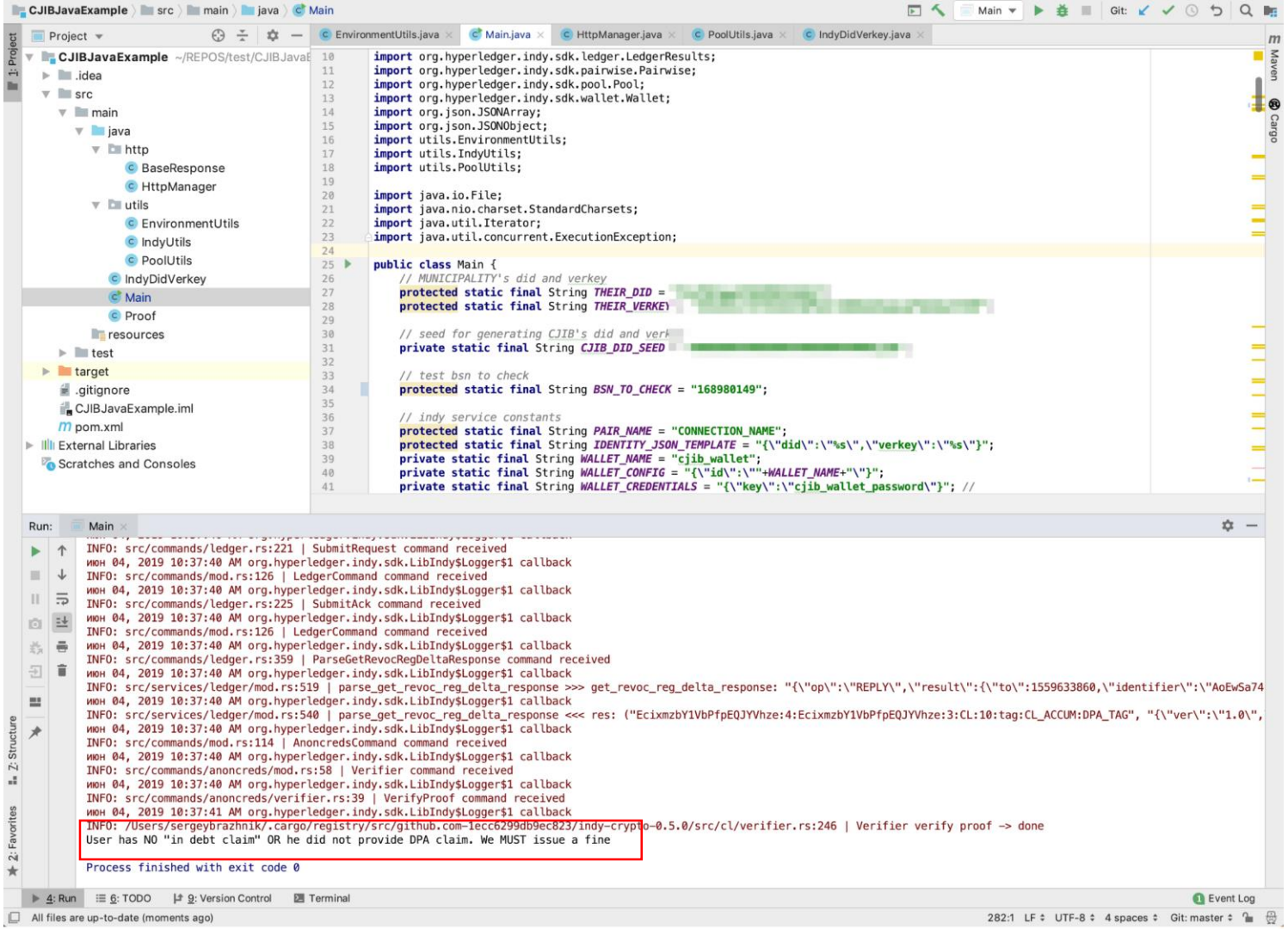

9:41
TestFlight
10:32
75 %
Status data
Gedeeld
Mijn data niet meer delen


CJIBJavaExample [~/REPOS/test/CJIBJavaExample] - .../src/main/java/Main.java [CJIBJavaExample]
Project
CJIBJavaExample ~/REPOS/test/CJIBJavaE
.idea
src
main
java
http
BaseResponse
HttpManager
utils
EnvironmentUtils
IndyUtils
PoolUtils
IndyDidVerkey
Main
Proof
resources
test
target
.gitignore
CJIBJavaExample.iml
pom.xml
External Libraries
Scratches and Consoles
EnvironmentUtils.java
Main.java
HttpManager.java
PoolUtils.java
IndyDidVerkey.java
import org.hyperledger.indy.sdk.ledger.Ledger;
import org.hyperledger.indy.sdk.ledger.LedgerResults;
import org.hyperledger.indy.sdk.pairwise.Pairwise;
import org.hyperledger.indy.sdk.pool.Pool;
import org.hyperledger.indy.sdk.wallet.Wallet;
import org.json.JSONArray;
import org.json.JSONObject;
import utils.EnvironmentUtils;
import utils.IndyUtils;
import utils.PoolUtils;
import java.io.File;
import java.nio.charset.StandardCharsets;
import java.util.Iterator;
import java.util.concurrent.ExecutionException;
public class Main {
// MUNICIPALITY's did and verkey
protected static final String THEIR_DID =
protected static final String THEIR_VERKEY
// seed for generating CJIB's did and verk
private static final String CJIB_DID_SEED
// test bsn to check
protected static final String BSN_TO_CHECK = "168980149";
// indy service constants
protected static final String PAIR_NAME = "CONNECTION_NAME";
protected static final String IDENTITY_JSON_TEMPLATE = "{\"did\":\"%s\",\"verkey\":\"%s\"}";
private static final String WALLET_NAME = "cjib_wallet";
private static final String WALLET_CONFIG = "{\"id\":\""+WALLET_NAME+"\"}";
Main › THEIR_DID
Run: Main
INFO: src/commands/ledger.rs:221 | SubmitRequest command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/mod.rs:126 | LedgerCommand command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/ledger.rs:225 | SubmitAck command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/mod.rs:126 | LedgerCommand command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/ledger.rs:359 | ParseGetRevocRegDeltaResponse command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/services/ledger/mod.rs:519 | parse_get_revoc_reg_delta_response >>> get_revoc_reg_delta_response: "{\"op\":\"REPLY\",\"result\":{\"to\":1559633740,\"identifier\":\"AoEwSa74
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/services/ledger/mod.rs:540 | parse_get_revoc_reg_delta_response <<< res: ("8ukLnr59dzh5iFv4VPFoVN:4:8ukLnr59dzh5iFv4VPFoVN:3:CL:14:TAG1:CL_ACCUM:TAG1", "{\"ver\":\"1.0\",\"
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/mod.rs:114 | AnoncredsCommand command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/anoncreds/mod.rs:58 | Verifier command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/anoncreds/verifier.rs:39 | VerifyProof command received
июн 04, 2019 10:35:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: /Users/sergeybrazhnik/.cargo/registry/src/github.com-1ecc6299db9ec823/indy-crypto-0.5.0/src/cl/verifier.rs:246 | Verifier verify proof -> done
User has "in debt claim" and provided DPA claim. We NOT able to issue fine
Process finished with exit code 0
4: Run
6: TODO
9: Version Control
Terminal
Event Log


9:41
TestFlight
10:32
75 %
Status data
Gedeeld
Mijn data niet meer delen


9:41
TestFlight
10:32
75 %
Status data
Gedeeld
Mijn data niet meer delen
Data niet gedeeld met CJIB


9:41
TestFlight
10:32
75 %
Status data
Niet gedeeld
Mijn data delen


CJIBJavaExample
src
main
java
Main
Git:
Project
CJIBJavaExample ~/REPOS/test/CJIBJavaE
.idea
src
main
java
http
BaseResponse
HttpManager
utils
EnvironmentUtils
IndyUtils
PoolUtils
IndyDidVerkey
Main
Proof
resources
test
target
.gitignore
CJIBJavaExample.iml
pom.xml
External Libraries
Scratches and Consoles
EnvironmentUtils.java
Main.java
HttpManager.java
PoolUtils.java
IndyDidVerkey.java
10 import org.hyperledger.indy.sdk.ledger.LedgerResults;
11 import org.hyperledger.indy.sdk.pairwise.Pairwise;
12 import org.hyperledger.indy.sdk.pool.Pool;
13 import org.hyperledger.indy.sdk.wallet.Wallet;
14 import org.json.JSONArray;
15 import org.json.JSONObject;
16 import utils.EnvironmentUtils;
17 import utils.IndyUtils;
18 import utils.PoolUtils;
19
20 import java.io.File;
21 import java.nio.charset.StandardCharsets;
22 import java.util.Iterator;
23 import java.util.concurrent.ExecutionException;
24
25 public class Main {
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28 protected static final String THEIR_VERKEY
29
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32
33 // test bsn to check
34 protected static final String BSN_TO_CHECK = "168980149";
35
36 // indy service constants
37 protected static final String PAIR_NAME = "CONNECTION_NAME";
38 protected static final String IDENTITY_JSON_TEMPLATE = "{\"did\":\"%s\",\"verkey\":\"%s\"}";
39 private static final String WALLET_NAME = "cjib_wallet";
40 private static final String WALLET_CONFIG = "{\"id\":\""+WALLET_NAME+"\"}";
41 private static final String WALLET_CREDENTIALS = "{\"key\":\"cjib_wallet_password\"}"; //
Run:
Main
INFO: src/commands/ledger.rs:221 | SubmitRequest command received
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/mod.rs:126 | LedgerCommand command received
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/ledger.rs:225 | SubmitAck command received
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/mod.rs:126 | LedgerCommand command received
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/ledger.rs:359 | ParseGetRevocRegDeltaResponse command received
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/services/ledger/mod.rs:519 | parse_get_revoc_reg_delta_response >>> get_revoc_reg_delta_response: "{\"op\":\"REPLY\",\"result\":{\"to\":1559633860,\"identifier\":\"AoEwSa74
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/services/ledger/mod.rs:540 | parse_get_revoc_reg_delta_response <<< res: ("EcixmzbY1VbPfpEQJYVhze:4:EcixmzbY1VbPfpEQJYVhze:3:CL:10:tag:CL_ACCUM:DPA_TAG", "{\"ver\":\"1.0\",
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/mod.rs:114 | AnoncredsCommand command received
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/anoncreds/mod.rs:58 | Verifier command received
июн 04, 2019 10:37:40 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: src/commands/anoncreds/verifier.rs:39 | VerifyProof command received
июн 04, 2019 10:37:41 AM org.hyperledger.indy.sdk.LibIndy$Logger$1 callback
INFO: /Users/sergeybrazhnik/.cargo/registry/src/github.com-1ecc6299db9ec823/indy-crypto-0.5.0/src/cl/verifier.rs:246 | Verifier verify proof -> done
User has NO "in debt claim" OR he did not provide DPA claim. We MUST issue a fine
Process finished with exit code 0
4: Run
6: TODO
9: Version Control
Terminal
Event Log
All files are up-to-date (moments ago)
282:1
LF
UTF-8
4 spaces
Git: master
Maven
Cargo
1: Project
7: Structure
2: Favorites

Zoeken

Home | Mijn netwerk | Vacatures | Berichten | Meldingen | Ik | Werk | Premium 1 m probe

Marloes Pomp

Projectmanager Blockchain & AI experiments / International strategy and partnerships

Volledig profiel weergeven

Centraal Justitieel Incassobureau
Ministerie van Justitie en Veiligheid

THE FINANCIAL EMERGENCY BRAKE

CJIB app provides citizens with a GDPR-proof way to declare payment inability


GDPR


Your World First
C/M/S/
Law.Tax
Rapportage met betrekking tot CJIB schuldhulpverlening blockchain oplossing
Auteur: Simon Sanders
14 april 2019

GOVERNANCE
Who is the controller of data and who is the (sub) processor?

MATERIAL REQUIREMENTS OF THE BLOCKCHAIN
Automated decision making
International transfer
Legality, fairness and transparency
Purpose limitation
Minimum data processing
Correct and current
The principle of storage limitation
Security

TRANSPARENCY & THE RIGHTS OF THE PERSON CONCERNED
The right to information
The right to inspect
The right to rectification, the right to erase & the right to limitation of processing
The right to data portability
The right to objection
Exceptions to the rights of the person concerned

1. Ensure that the transactions on the blockchain do not contain any personal data (except for the (hashed) public key), for example personal data stored off-chain that also do not contain any personal data or if this is not possible; limit the personal data in transactions to a minimum and hash and encrypt this personal data for unauthorized users.

2. Determine which users of the blockchain act as controller or processor.

3. Determine whether the controllers have a sufficient legal basis for processing the personal data.

4. Ensure that a verification process ensures that there is no international transfer or that any international transfer is in line with the GDPR.

5. Establish the obligations and powers of the controllers in a mutual arrangement. Conclude processor agreements with processors.

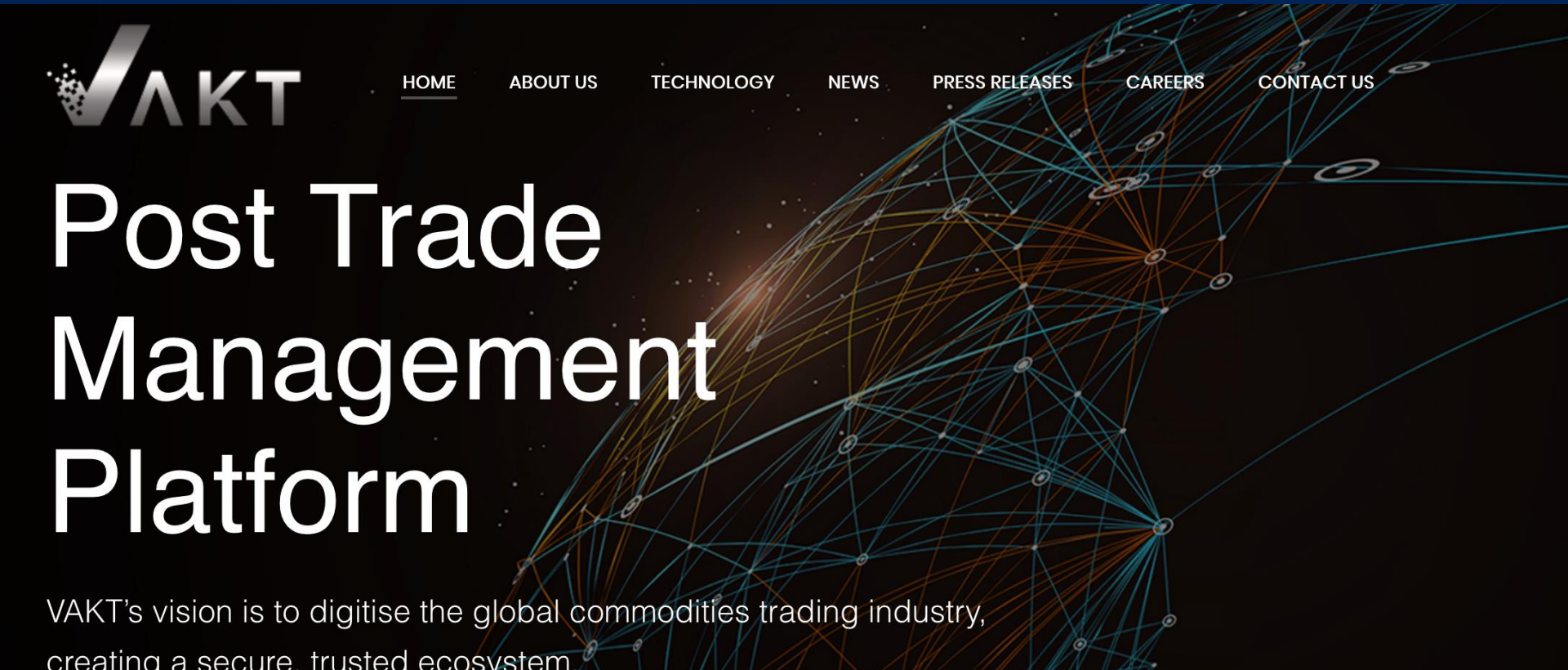
6. Determine whether it is necessary to designate a super user.

7. Secure the blockchain in an appropriate manner.

8. Ensure that the rights of those involved can be implemented. An important part of this is the right to limitation and removal.

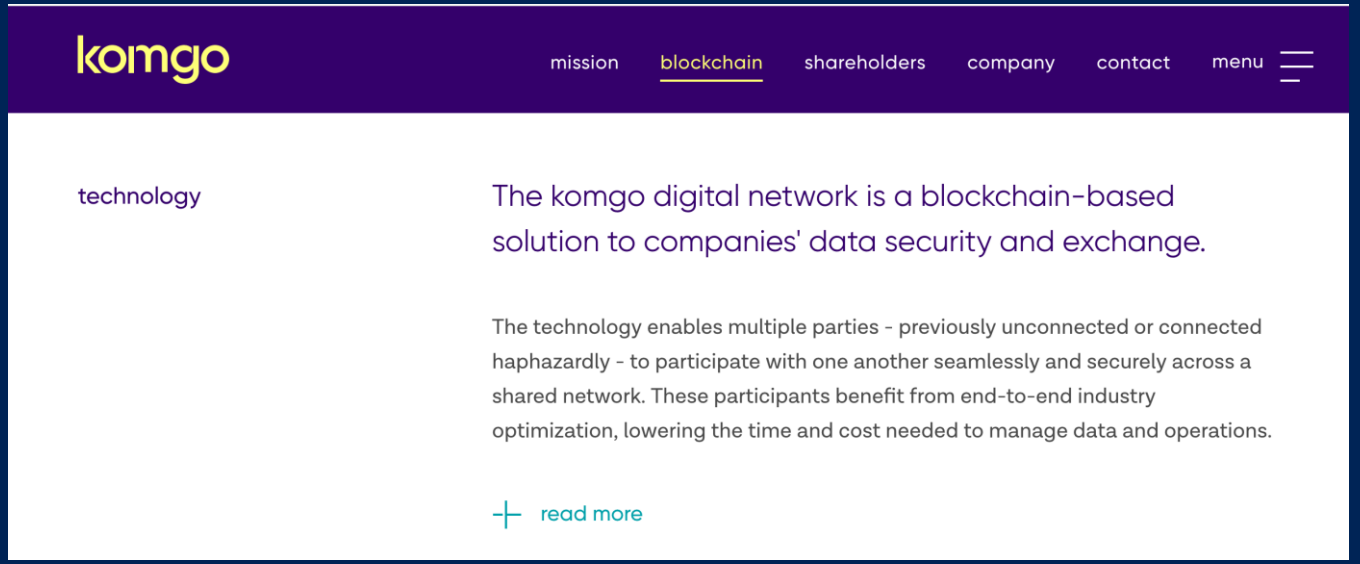
Watch the Banks!

Wetrade, Kombo, Deliver, Vakt,…



Banks: Modules

Wetrade, Komgo, Deliver, Vakt,…



https://blockchaininnovationconference.com/

1.33

Lessons from the banks

1. Join each other initiatives
2. Build firm teams and sometimes even new organizations within your own
3. Build modules for public services
4. What is the Komgo of the public sector? SSI+ wallet with claims?

BLOCKCHAIN PROJECTS
DUTCH GOVERNMENT

1. Start: SSI + claims: Let’s fill and test the basket together!
2. Learn: From the trade/ logistic sector
3. Explore: Blockchain helps deliver upon the promise of AI by providing new levels of data access, trust and security. From AI for your own organization to AI for a “chain of events”
4. Enjoy!!