2016 was the year of blockchain's POC
2017 is the year to go on prodution!

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It's time to go live on blockchain

"We always overestimate the change that will occur in the next two years and underestimate the change that will occur in the next ten. Don't let yourself be lulled into inaction."
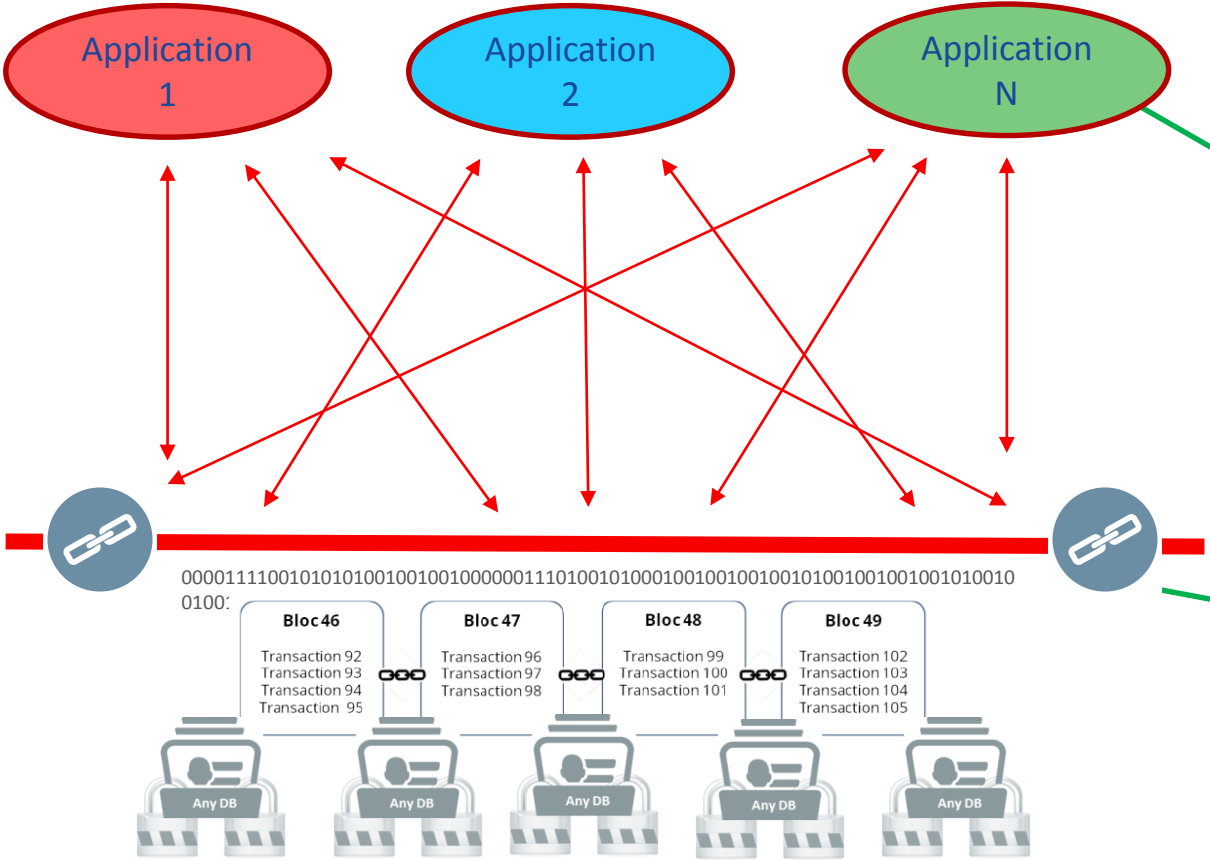
Bill Gates, technologist and philanthropist

Blockchain's promise

The internet revolutionised the way we exchange information.

Blockchain is revolutionising the way we transact.

Blockchain: new digital organization

Application 1

Application 2

Application N

Data is available to any authorized application. The owner retains the rights to his data.

Data is encrypted by the blockchain. It is secured and made immutable.

0000111100101010100100100100000011101001010001001001001001010010010010010010010010
0100:

Bloc 46

Transaction 92
Transaction 93
Transaction 94
Transaction 95

Bloc 47

Transaction 96
Transaction 97
Transaction 98

Bloc 48

Transaction 99
Transaction 100
Transaction 101

Bloc 49

Transaction 102
Transaction 103
Transaction 104
Transaction 105

Any DB

Any DB

Any DB

Any DB

Any DB

Blockchain competitive advantages

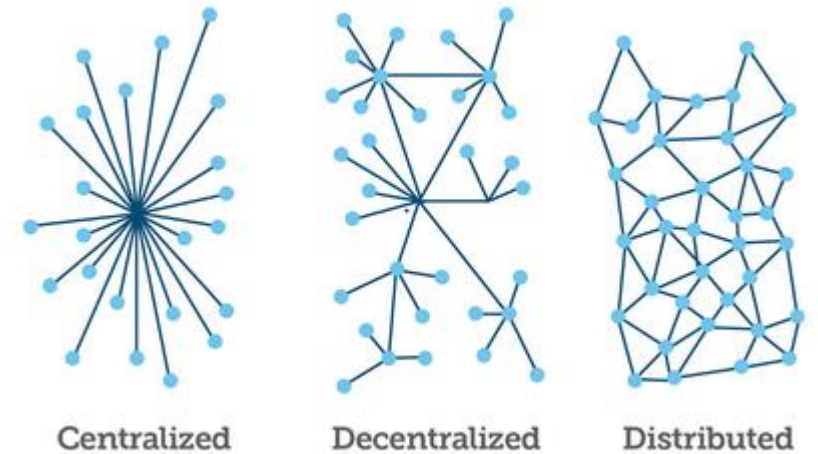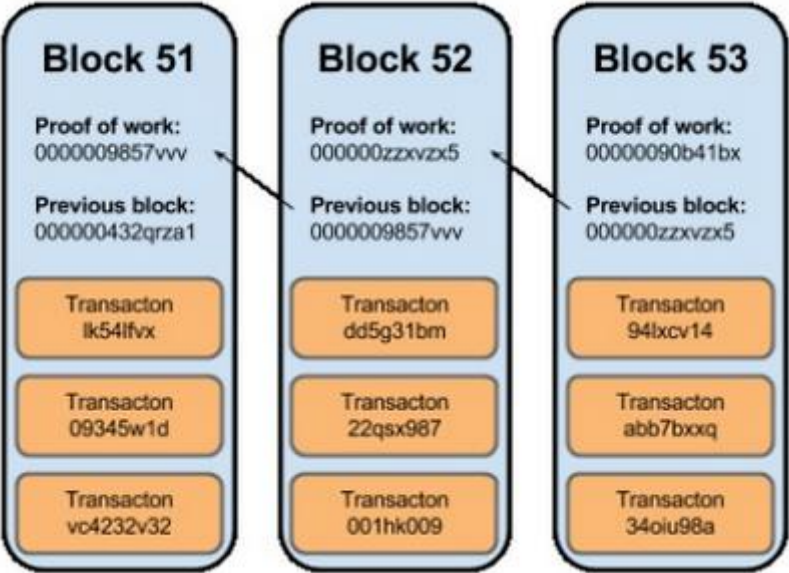| Security of exchanges	Data protection	Simplification
• Resilience • Authentication	• Confidentiality • Immutability	• New services creation for new models • Cost effectiveness • Automation

Trace ability

Blockchain competitive advantages

A new digital organization to handle data and validate transactions

- **Distributed architecture (peer-to-peer)**
- **New decentralized registration** protocol
- **Encrypted data flows** and encrypted data storage

Centralized   Decentralized   Distributed

Blockchain: how does it works?

Security
Immutability

- **Blockchain is based on blocks that are crypted and linked to each others.**
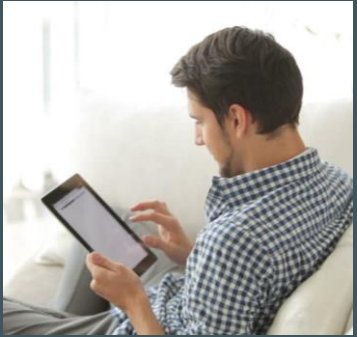
The pain point in IT: loss of confidence

- **Chainorchestra's blockchain brings** traceability, security, authentication, resilience, traceability, simplification of environment and cost efficiency .

- A simple example: the securization of emails

ChainOrchestra's mission

ChainOrchestra is the **Blockchain Network Operator** that provides the Enterprise with mutualized permissioned blockchain.

Customers can enjoy the benefits of blockchain without having to bear important deployment costs and complex know-how acquisition.

Scenario : Safe-deposit box rental with a blockchain

Applies online to the **Safe-Deposit Box Allocation Service**

Takes an appointment with his branch to deposit his valuables in a Safe-Deposit Box

Requests the teller the **access his safe-deposit box**

The teller verifies the client is **allowed to access his safe-deposit box**

Deposits his valuables

reviews all previous access of his safe-deposit box

Applies online the **Safe-Deposit Box Rental Service**

Takes an appointment with his branch to deposit his valuables in a Safe-Deposit Box

Requests the teller the **access to the vault**

The teller verify the client is **allowed to access the vault**

Deposits his valuables

reviews all the accesses of his safe-deposit box

Client Screen #1

REQUEST FOR A SAFE-DEPOSIT BOX

- FIRST NAME
- LAST NAME
- IDENTITY PHOTO
[VALIDATE BUTTON]

Client Screen #2

REQUEST FOR A APPOINTMENT

- DATE
- SAFE-DEPOSIT BOX NUMBER
[VALIDATE BUTTON]

Teller Screen #1

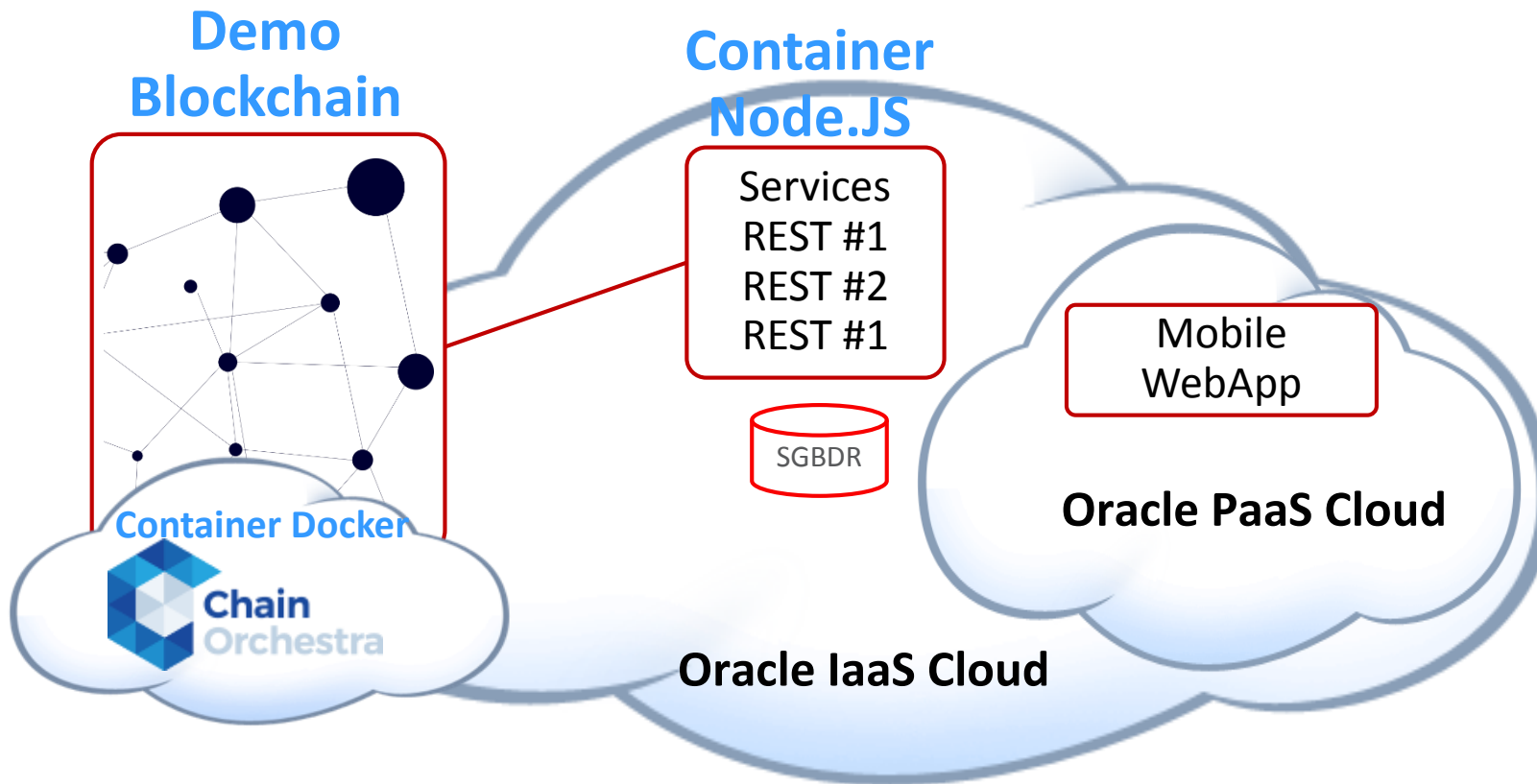**CHECK IDENTITY AND ACCESS**

- CLIENT ID
[REQUEST BUTTON]

Diplays :
Picture
YES or NO

Client Screen #3

LIST ACCESS

Architecture : an access to ChainOrchestra's blockchain via Oracle Iaas Cloud

Demo Blockchain

Container Node.JS

Services
REST #1
REST #2
REST #1

SGBDR

Container Docker

Chain Orchestra

Oracle IaaS Cloud
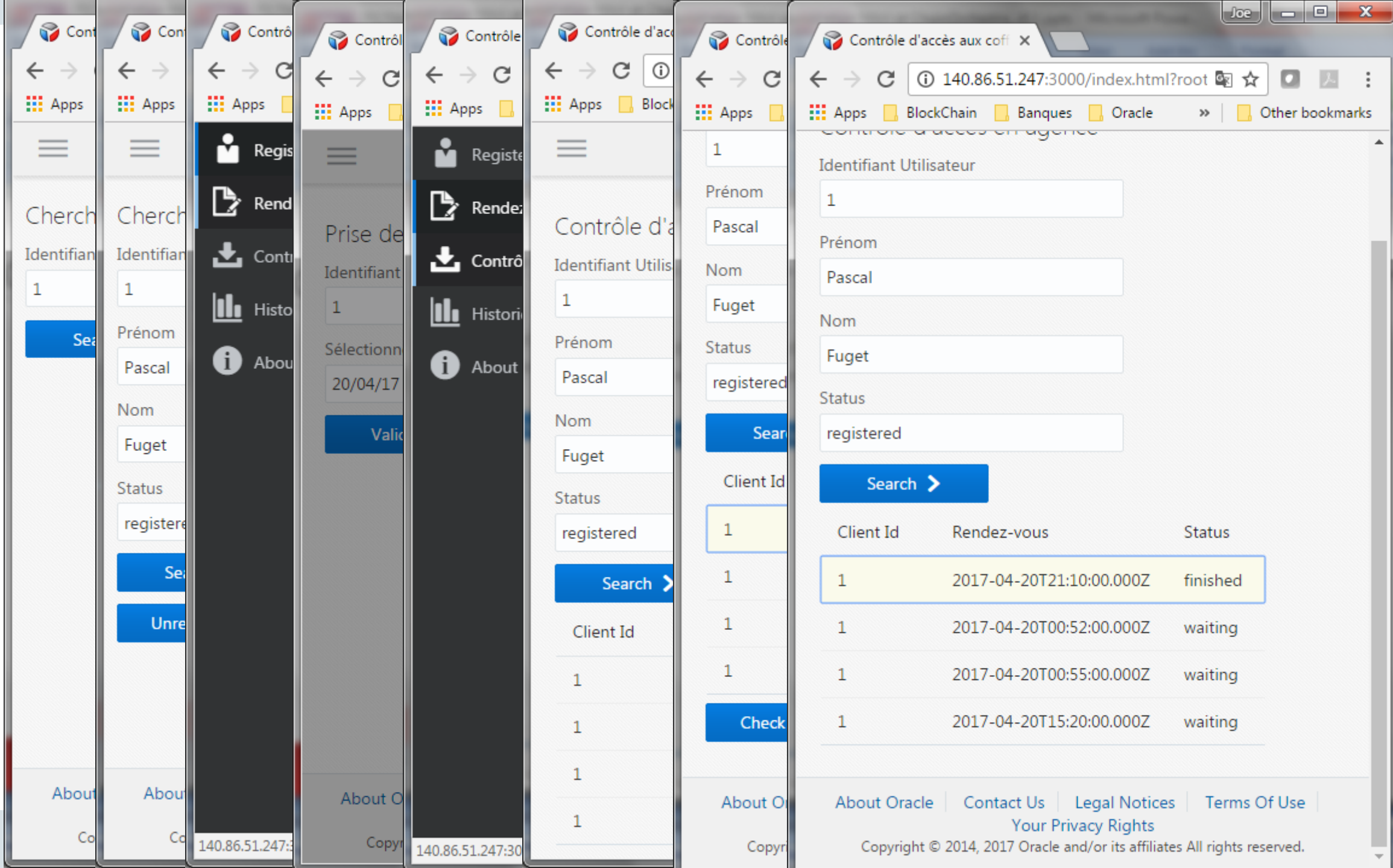
Mobile WebApp

Oracle PaaS Cloud

Done the followings:

ChainOrchestra
- Provide REST Services be hosted in a Node.JS container

Oracle
- Install Node.JS container
- Develop Mobile Screen
- Develop App

ORACLE

Chain Orchestra

Contrôle d'accès aux coff ✕

140.86.51.247:3000/index.html?root

Contrôle d'accès en agence

Identifiant Utilisateur

1

Prénom

Pascal

Nom

Fuget

Status

registered

Search ❯

Client Id	Rendez-vous	Status
1	2017-04-20T21:10:00.000Z	finished
1	2017-04-20T00:52:00.000Z	waiting
1	2017-04-20T00:55:00.000Z	waiting
1	2017-04-20T15:20:00.000Z	waiting

Exemples

Traceability

GDPR

KYC

Trading

VRM

And you what's the subject of your next blockchain project?

Streamline administrativ processes

Be GDPR and KYC compliance

Create new businesses

Timing

- **Ready to go live in September**

**Unique opportunity
to simplify and accelerate your business with blockchain**

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