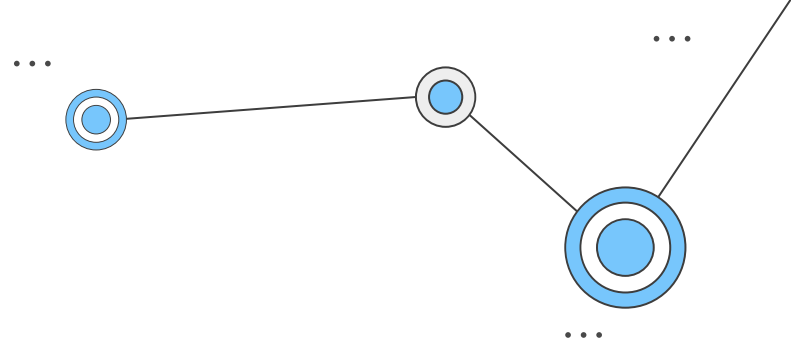# COTRUGLI Diploma Verification System

Blockchain Based Diploma Verification System

Our Solution
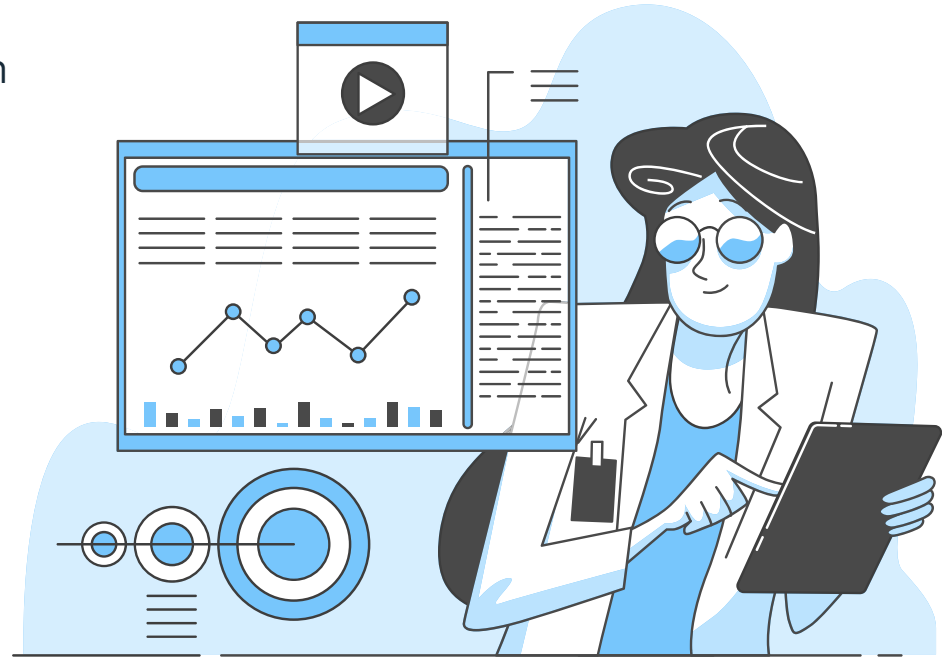
01 Secure, fast and scalable **blockchain based platform for diploma verification**

...

02 Using power of blockchain to provide end-to-end system security

...

03 Generating QR codes for easy checking of digital certificates

...

DVS – Business Process

01 Uploading diploma in pdf format

02 Deploying to The Blockchain network

03 Storing Name, Timestamp, Digital Signature, Transaction hash
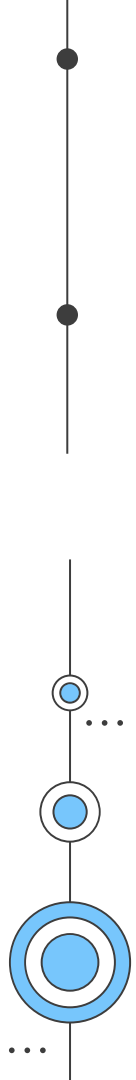
04 Generating QR code

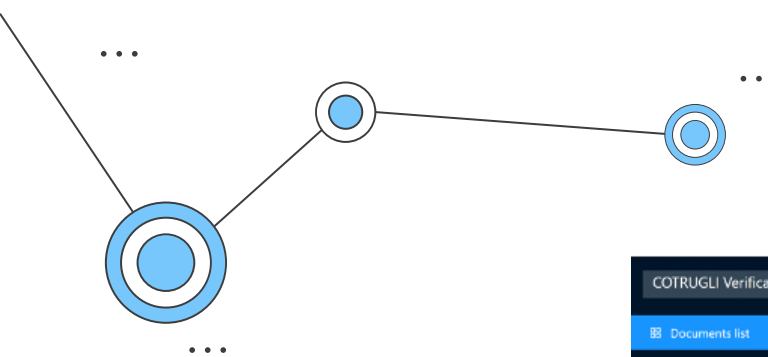**05** Following QR code link, digital diploma is displayed

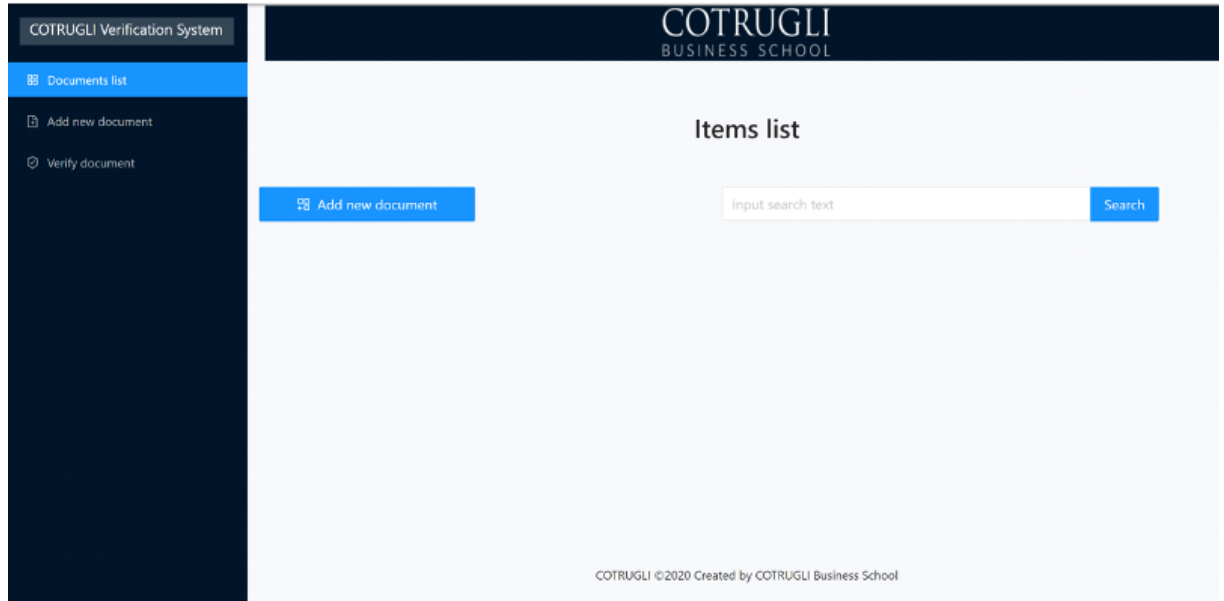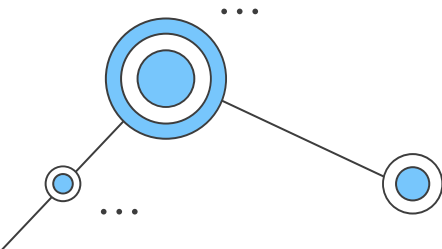**06** Easy integration with existing ecosystem

DVS - Steps

In this demonstration we will use Jane Doe, and John Doe as our examples. One of them did finish and got a certificate from COTRUGLI Business school, while the other one has a fake one. We will try to verify in the end which one is really verified by COTRUGLI Business School.
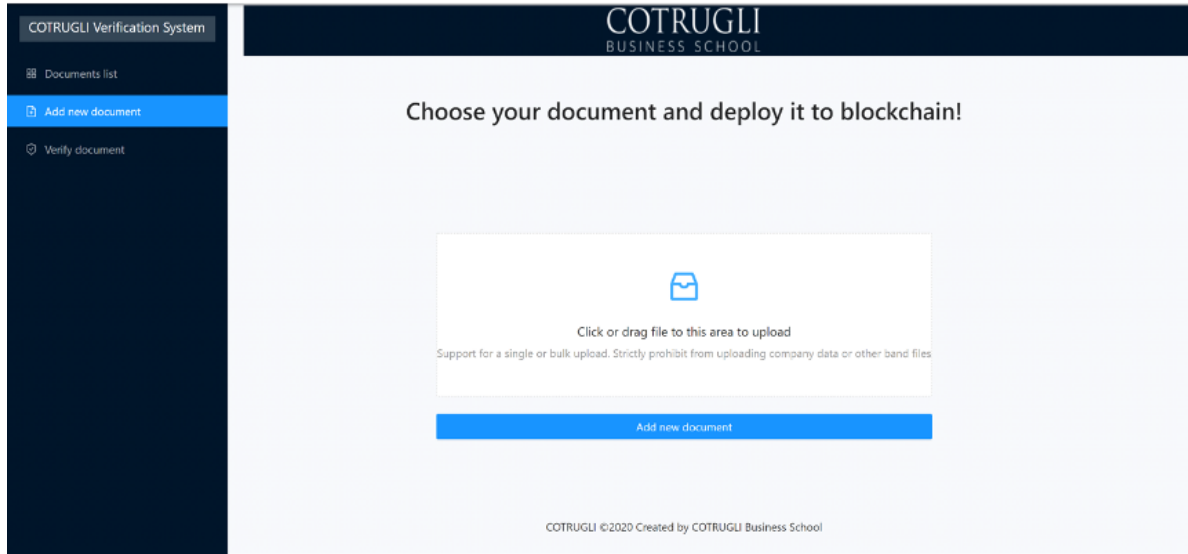
In this first picture you can see our **Items list** which for now is empty.

So let's imagine that a student named Jane Doe has finished her course and got a diploma. First, we would like to add diploma to our list. So let's do just that.
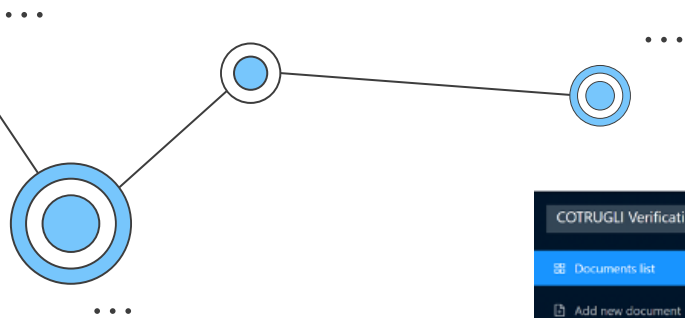

We can either click on the button **"Add new document"**, or in the side bar navigate to the part "Add new document".

We upload our file and review it.

COTRUGLI Verification System

Documents list

Add new document

Verify document

COTRUGLI
BUSINESS SCHOOL

Jane Doe.pdf

Cotrugli Business School

This Diploma witnesses that

Jane Doe

has fulfilled the prescribed requirements and is recommended by the Program Board of the
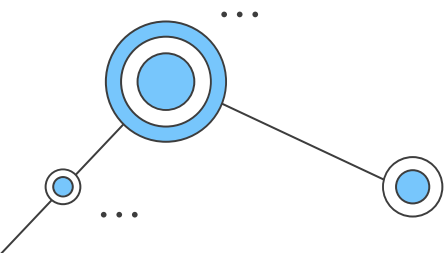COTRUGLI BUSINESS SCHOOL
for the Degree of

Master of Business Administration

which is conferred with all the rights and privileges pertaining thereto.
Given under the seal of Cotrugli Business School
April 21, 2021

COTRUGLI
BUSINESS SCHOOL

AMBA

Reject   Confirm

And we add it to our list by pressing "Confirm" button

After our confirmation we can click on the button **"Add to blockchain"** which will deploy this document's digital signature to our smart contract.

As we can see after successful deployment, our button has changed to **"Registered"** and we get a **Success notification** of the Transaction hash by which we can locate our certificate and transaction on the blockchain.

And the final step of this part is to go to **"Verify document"** part and upload our original and fake diploma to confirm their validity.

First, we upload Jane Doe and we get a **Success notification**.

And then we upload John Doe, which is not in our base and we get **Error Notification**

Next, while our deployment is done, we generate QR Code which we thereafter place on our physical version of diploma. We can scan QR code and find more details about our diploma. Go ahead, try and scan this QR code :)

This is the page which will open after scanning this QR code, it will show the digital version of the diploma and most important data about our diploma verification such as **Name, Timestamp, Digital Signature, Transaction hash**, and it could be more modified to hold more or less information...

Also by clicking on the transaction hash we can open blockchain explorer and check our transaction just for the confirmation and more detailed informations.

Verification system on blockchain can be of great benefit to anyone using it either in personal or professional environment.

If you have any concerns or questions regarding this demonstration document feel free to contact us.

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