

Title

Major Educational Institution in SE Asia Secures e-Certificates Using Integrated Blockchain Certificate Platform

The Objective

The purpose of undertaking the case study was primarily to establish standard blockchain benefits geared towards the education industry – as to how any existing educational institute (large or small) - those not having any systems in place - can secure certificates and benefit from integrating blockchain-based solutions.

About the Customer

Our customer is a large academic institution (University) in South-east Asia spread over three countries, having 20,000+ students.

The Challenge

The customer being a large university, regularly issues thousands of e-Certificates to its students every year. However, they had no option available to verify or validate the e-Certificates. Hence, they were looking to implement a capable platform to ensure a faster and safer way to issue secured e-Certificates for their students. Moreover, finding the right implementation partner/vendor was another challenge.

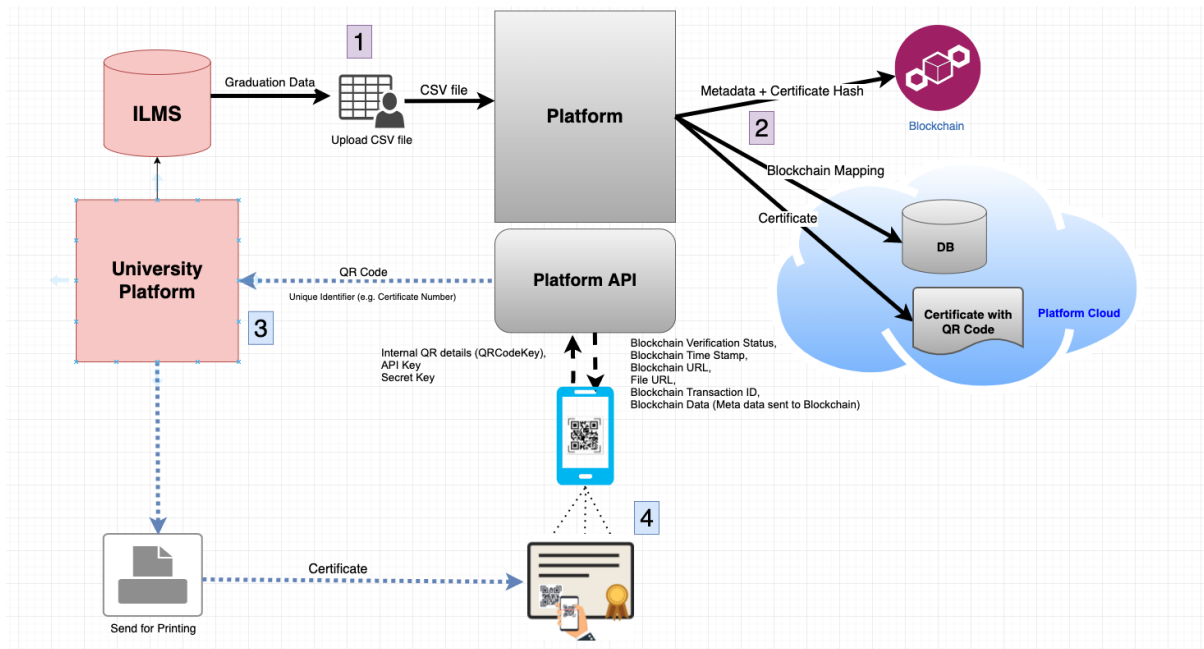
The Methodology

How RightCliq Helped

The customer approached us because of our vast experience and track record in implementing Blockchain-based solutions. They found the right fit in RightCliq.

- Our team collaborated with the university management in understanding the challenges in adopting new technology without disrupting the existing systems.
- The team focused on new technology adoption to integrate with existing ones to bring more efficiency to their existing processes.
- Finally, we were successful in integrating a cloud-based Blockchain Certificate Platform (BCP) using the VeriDoc global API.

As this was an API-based integration, no changes were required to the existing systems. The entire implementation process was completed within a short span of just one month.



[Figure explained: 1,2,3 are creation platforms and 4 is verification platform]

The Solution

The integrated platform has two primary components – the admin web portal and the mobile app. Working alongside the customer, we ensured that the admin web portal & mobile app were integrated in an agile manner, allowing for speed and iteration.

Features

Admin Portal:

- University Management
 - Manage Certificate Templates for University
 - Certificate Field Mapping
 - Automatic Serial Number generation.
- User Management
 - User Profiles/Change Password
 - Roles & Permissions
 - User Status management
- Integration
 - Graduation Data Import (API integration)
 - CSV Data Import (in predefined format)
- Manage Certificates
 - Search and Share/Download certificates
 - Certificate PDF Storage location
 - Block Certificates
- QR Code Setup
 - QR Code definition (URL Domain Mapping)
 - QR Codes Security (Public & Private QR Codes)
 - URL redirection (Default URL to download the mobile app)
- Blockchain Integration
 - Blockchain API Setup (Using VeriDoc Global API)
 - Blockchain Metadata setup
- View Scanning History
 - Track IP address/Country of the scanned location

- Notification & Reporting
 - Email - automatic sharing of certificates
 - Triggers, Alerts & Reminder
 - 7 different reports included
 - Report Listing, Sorting & Printing
 - Dashboards
- Security
 - Audit Trail
 - Application Access
 - SSL/HTTPS
- Caching
 - Application & Database Caching
 - Document & Image Caching

Mobile App:

Native Android & iOS App

- QR code reader
- Certificate & Blockchain validation
- Terms & Conditions, Privacy Policy
- About Us & Version No.
- Splash Screen
- Disclaimer and Feedback

Benefits

Some significant benefits of the solution include the following:

- The application is designed to be integrated with any existing ILMS system via our customizable API layer
- This solution can be adopted by any large or small educational institution. It can be integrated into the institution's existing mobile app as well
- Also, if necessary, custom QR code scanners can be built for universities or organizations as per requirements.

To sum up, we have developed a generic Blockchain Certificate Platform that can be used across industries.

Results / Outcome

- Interoperable integration with existing ILMS solution
 - The Blockchain Certificate Platform (BCP) enabled the customer to quickly issue secured e-Certificates for its students.
 - The certificates could now be verified & validated because of the underlying blockchain technology.
 - Using this platform, the University has already secured close to 5000 certificates for its year-end graduation programme.
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