

Malaysian Taekwondo Federation
(MTF)

Instantly Verifiable Certificates



MTF uses patented blockchain technology to issue instantly verifiable certificates

Worldwide, certificate fraud is a menace, and even illegal, but the fraudsters and scammers have become sophisticated and the certifying bodies find it hard to combat. Today with advancement in technologies like blockchain and QR code, the security and verification industry is undergoing a transformation. Still, there are adoption challenges due to the complex nature of the certification process and costs. Further, verifying the authenticity of a certificate is time consuming and yet unreliable.

We at RightClique offer an easy to implement solution that enables issuing secure and verifiable certificates with the help of VeriDoc Global's patented technology to solve the toughest problems in the certification industry.

Our client, Malaysian Taekwondo Federation (MTF) is a renowned taekwondo training academy, which is affiliated to the Pejabat Pesuruhjaya Sukan Malaysia (Malaysian Sports council). They have thousands of registered members across Malaysia and are expecting to issue around 20,000 certificates in a year.

MTF certificate - the problem

The association head-quarters (HQ) used to pre-print the physical certificates without any student details in a central facility and distributed it to the State Chief Instructors. The instructors from various associations received these empty certificates from the respective state chiefs. During the exams, the instructors pass on the empty certificates to the examiners, which gets filled by them while testing the students. In this process, the number of certificates issued by the HQ were not tracked, therefore often it was duplicated by instructors/examiners, resulting in fake certificates issued to the students.



MTF requirements

As the MTF is widespread with thousands of members across the country, they were concerned that the very reputation of the academy was at stake due to the manual processes. They were looking for a technology solution to:

- stop the duplication of certificates
- enable certificate traceability
- make the certificate verification process transparent

Challenges

The certificate issuing process was complex as most of the tasks were manually managed. Record keeping was a major problem for the association and they were unable to track the actual issuance of the certificates. There was no way for the association to know to whom the certificates were issued and if it was genuine. This resulted in a multitude of challenges given below.

- Threat of duplicate certificates being issued to the students, which would eventually lead to:
 - the loss of reputation & trust for the association
 - the loss of revenue for the association
 - Unable to trace the certificates and details of the students & their grading
 - Parents/Students were unable to validate the authenticity of the certificates/instructors
- The Chief Instructors/Instructors/Examiners come from all kinds of backgrounds and most of them are not tech savvy. They even struggle with basic computing skills, therefore the solution should be easily adoptable.



The RightCliQ Solution

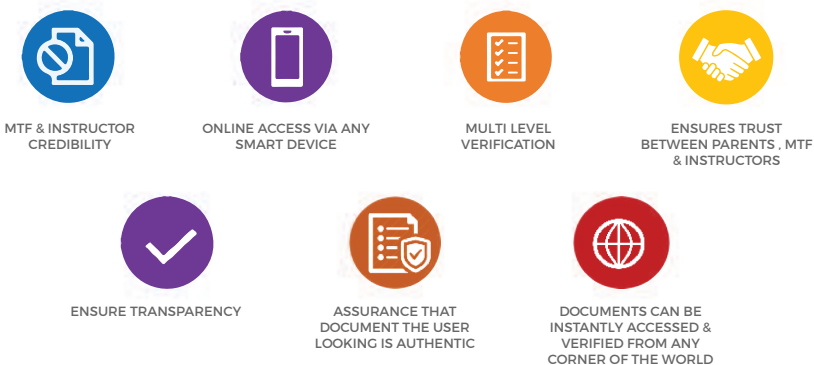


We proposed to implement a solution that is built on VeriDoc Global's blockchain and QR code based patented technology. We used a combination of automated & semi-automated processes as part of the solution. The proposed solution has these components:

- Securing and preserving the certificates: Provide an administrator module, which can be accessed by the authorized MTF personnel to secure the certificates.
- Verifying and validating the authenticity: Simple end user verification via smart phone with camera and internet connection installed with any QR code reader app to scan and verify the certificates instantly.

The solution devised was practical, cost effective and easy to use by people from all backgrounds. Major advantages of this solution are:

Key Advantages



How our solution helped

RightCliQ has modernized MTF's certificate issuance process with VeriDoc Global's patented technology that secures the certificates digitally on blockchain and at the same time offers hassle free QR code based verification.



VALIDATE AUTHENTICITY









INSTANT VERIFICATION



EASIEST WAY POSSIBLE

Overall Approach

We at RightCliQ in partnership with VeriDoc Global, delivered the entire solution in two weeks. With RightCliQ's decade long solutioning & integration expertise, we made use of VeriDoc Global's batch manager module and a combination few basic free tools like google sheets and other image editing/label generation tools. The solution devised was practical, cost effective and easy to use by people from all backgrounds. To reduce the complexities in the entire process we did the following:

					
MAPPING SERIAL NUMBER TO QR CODES	CERTIFICATE PRINTING	ACTIVATION	DISTRIBUTION	ISSUANCE	VERIFICATION
The Serial number and QR code codes get converted into an image, which is passed to the printers. The printers will print the image (QR Code + Serial number) on the certificates.	MTF admin can pre-define and associate the serial number to be printed on physical certificates with a QR code.	QR codes are activated on blockchain. During the activation process an encrypted hash along with the serial number and other pertinent details are stored on blockchain. The certificates are given to the Chief Instructors (CI)	The CI distributes the certificates to other instructors/examiners. The information regarding the CI, Instructors and examiners is maintained by CI and captured in the QR code.	The certificates are issued to the students by the examiners. The examiner details, student details and the grading details are all captured as part of the issuance process.	The authenticity of the certificate can be verified by scanning the QR code printed on physical certificates using any QR code scanner.

Results

Our solution has helped MTF in digitizing to prevent mistakes in the management of the academy's certification process and eventually combat the production of unaccredited certificates and fakes.

MTF can now issue tamper proof certificates as the certificates are stored in blockchain. This helps in overcoming the problem of fake and forged certificates.

Increased trust among various MTF stakeholders as each of the printed certificates can now be tracked and traced.

Multi-level verification increases the transparency of the activities captured during the certification process. This includes visual inspection and verifying the document details on blockchain.