



University Certificate system

A Secured Solution
Powered by Sphinx SDMS





Our solution provides a hybrid certificates system

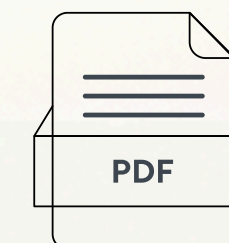
we propose hybrid system that supports both physical and digital certificates

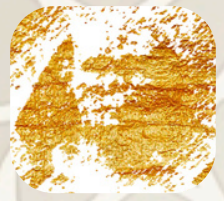


- Secured by a serial number and a unique pre-perso number
- Secured by physical design security (specialized inks, holograms, stamps etc)

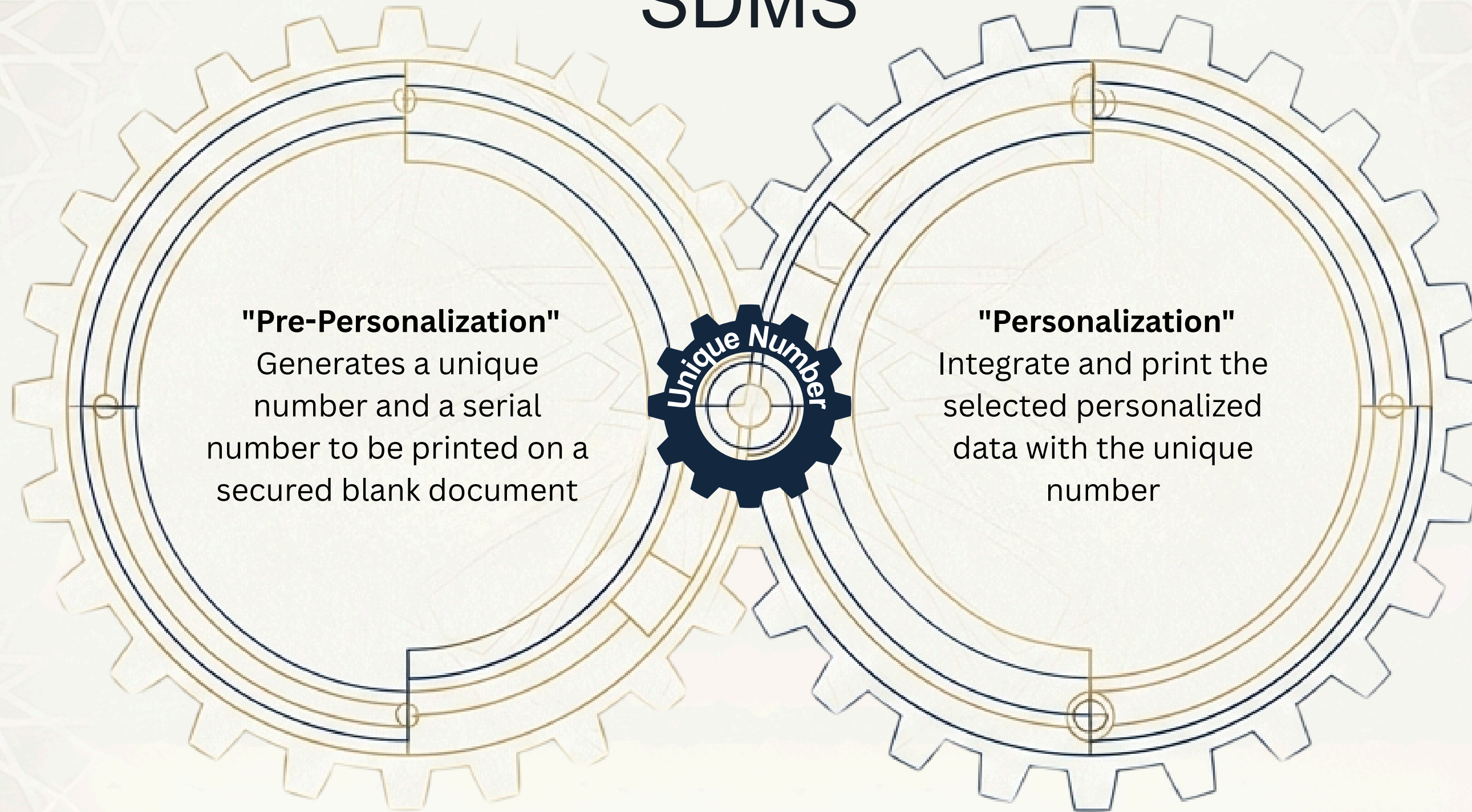


- Secured by a unique number
- Injected code inside PDF file for online verification





SDMS



Key Benefit:

Control the process from certificate manufacturing till the end of the document life cycle.



A certificate example

CERTIFICATE

OF GRADUATION

PROUDLY PRESENTED TO

John Doe

FOR EXCELLENCY IN THE ACADEMIC YEAR 2026
IN THE LOGISTICS DEPARTEMENT.

Claude Bernard

Claude Bernard
Dean

John Smith

John Smith
Departement Supervisor

2026-164-597492



Serial number



Pre-Perso Unique Number



C59-94616-64987



Perso Unique number



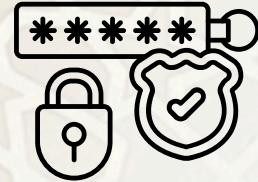
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Phase 1 (Pre-Personalization)

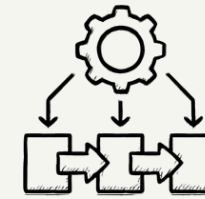
The Goal: Secure the physical blank document by creating a unique number for identification and a serial number for traceability

System Access Control



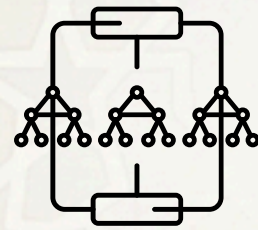
The process begins with strict user management and system access control using two-factor authentication (2FA) that uses a token system

Order Management and Batching



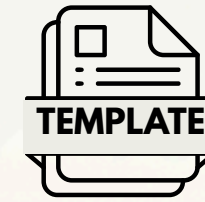
Management of order data and batching jobs

Number Generation



Generates a unique number and a serial number in any combined format (alphanumeric, QR codes, barcodes, etc.)

Flexible Template



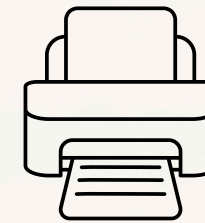
Templates can be redesigned with multiple elements, “Barcodes, and QR codes” with accurate positioning

PDF Preview



Generates a preview PDF document to ensure the template respects the requirements

Printing Controls



Batching, multi printing machines, variable data integration for printing and indexing slips

Verification & Scanning

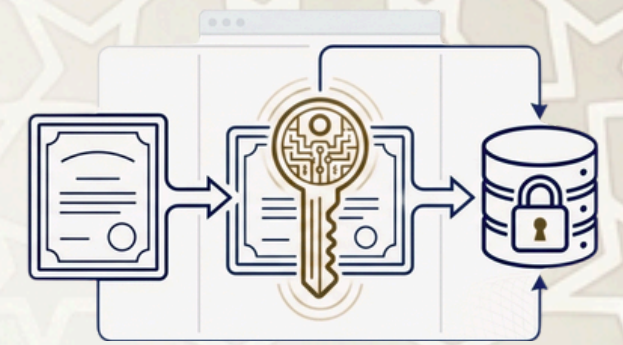


Documents are scanned in batches to check for readability, sequence, and count

Quality Assurance & Labeling

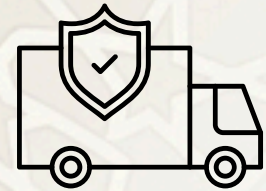


When batches are verified, a label printer prints both quality assurance and packaging labels



Phase 2 Distribution and Personalization

The Goal: Distribute and personalize the document and create a 2nd unique number for personalization.



Distribution

Manages Pre Personalised Indexed Numbered Documents to be delivered and distributed to Perso Center



Pre-Perso Document verification

Scan the document to ensure it's genuinity. Extract the pre-perso unique number



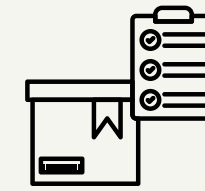
Logging and registration

Ensures a unique hashed code is registered for the job



Delivery

This mark the lifecycle creation of the document as ended



Stack index registration:

All secured documents to be registered for the personalization center stock



Data Enrollement & Personalization

Print specific user data to the secured document. **Secure erasure:** After personalization all related data created on the front end is securely erased



Perso Quality Assurance & Validation

Verifies that the printed pre-perso and the perso number matches the job created in the database



Comprehensive Reporting

Integrated reports for production, customer activity, quality control, and document status queries



An efficient process

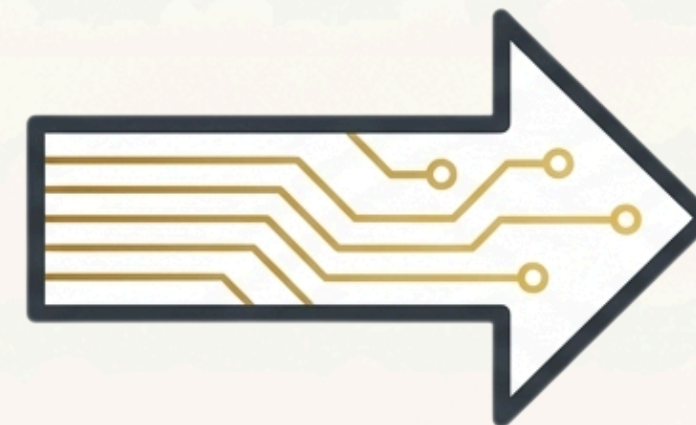
Easy ERP Integration: The system integrates directly with the University Database (ERP). When an admin marks a student as "**Graduated**," the SDMS automatically pulls the required data.

Step 1: The Trigger

A screenshot of a web application window titled "University Database". It contains a form with the following fields: "Student ID" with the value "10000085", "Name" with the value "John Smith", and "Department" with a dropdown menu showing "Department". To the right of the "Student ID" field, there is a checkbox labeled "Status: Graduated" which is checked. A mouse cursor is pointing at the checked checkbox.

Admin Role: just a simple click

Step 2: The Vault

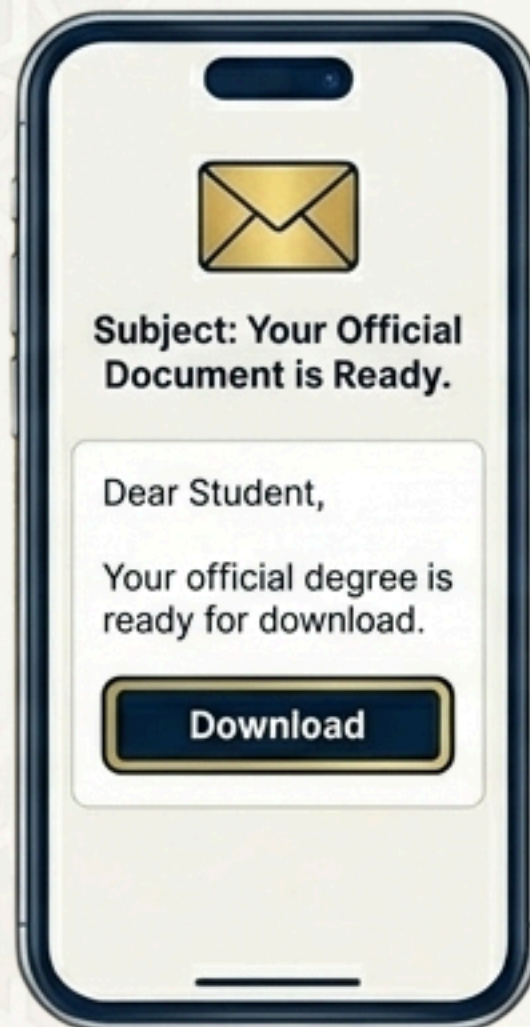


System automatically pull the student info for printing

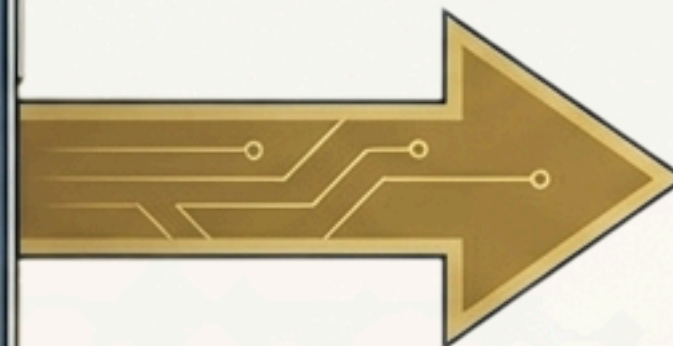
Locked into a global public record. Cannot be changed or forged.

Instant verification

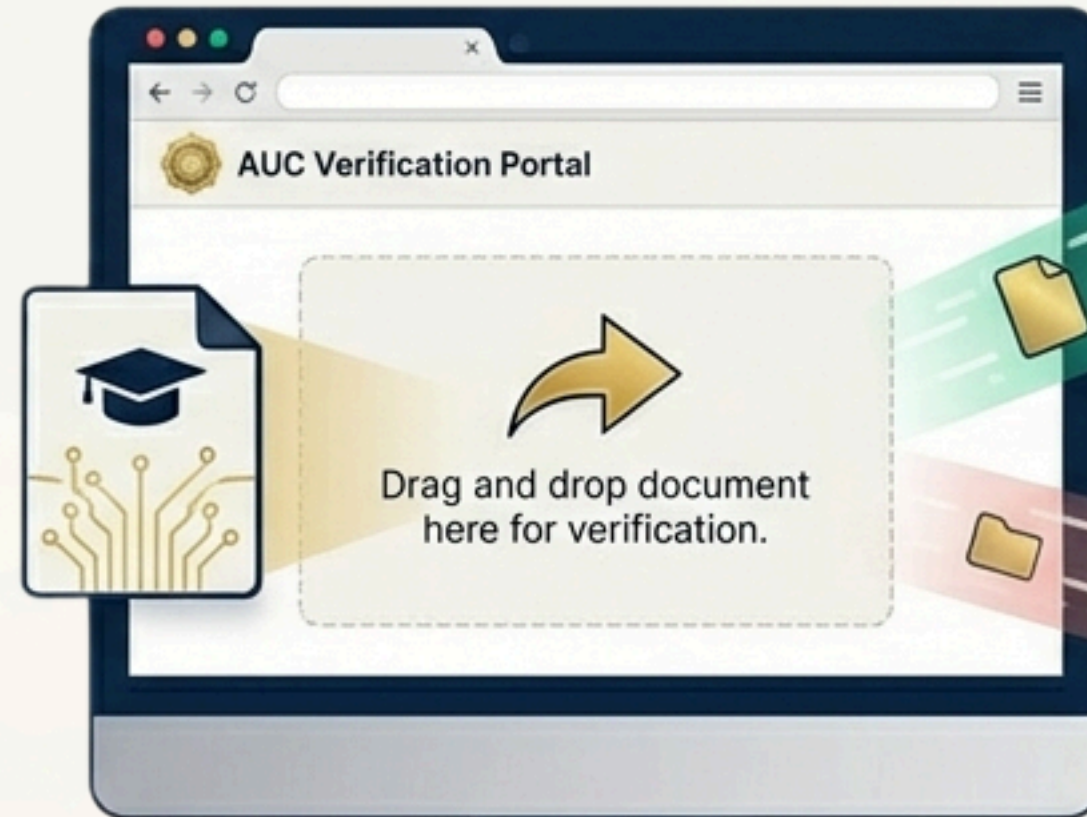
The Student's Portal



online
verification



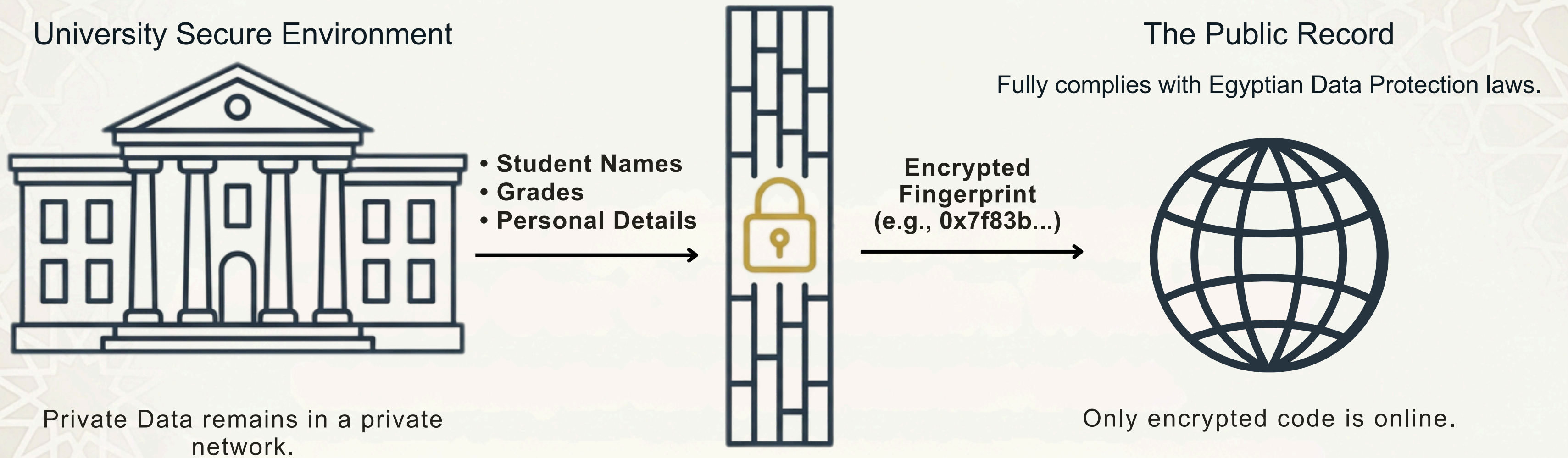
Instant Verification



Process: Employers or embassies drag and drop the document into the university Verification Portal.
Result: Instant confirmation ("Authentic" or "Cannot verify"), reducing wait times from days or weeks to seconds.



Compliance by design: Student data never leaves university servers.



Secured document management system

Multi-Defense Layers



Encryption



DLP (Data Loss Prevention)



Anti-Malware and rootkits



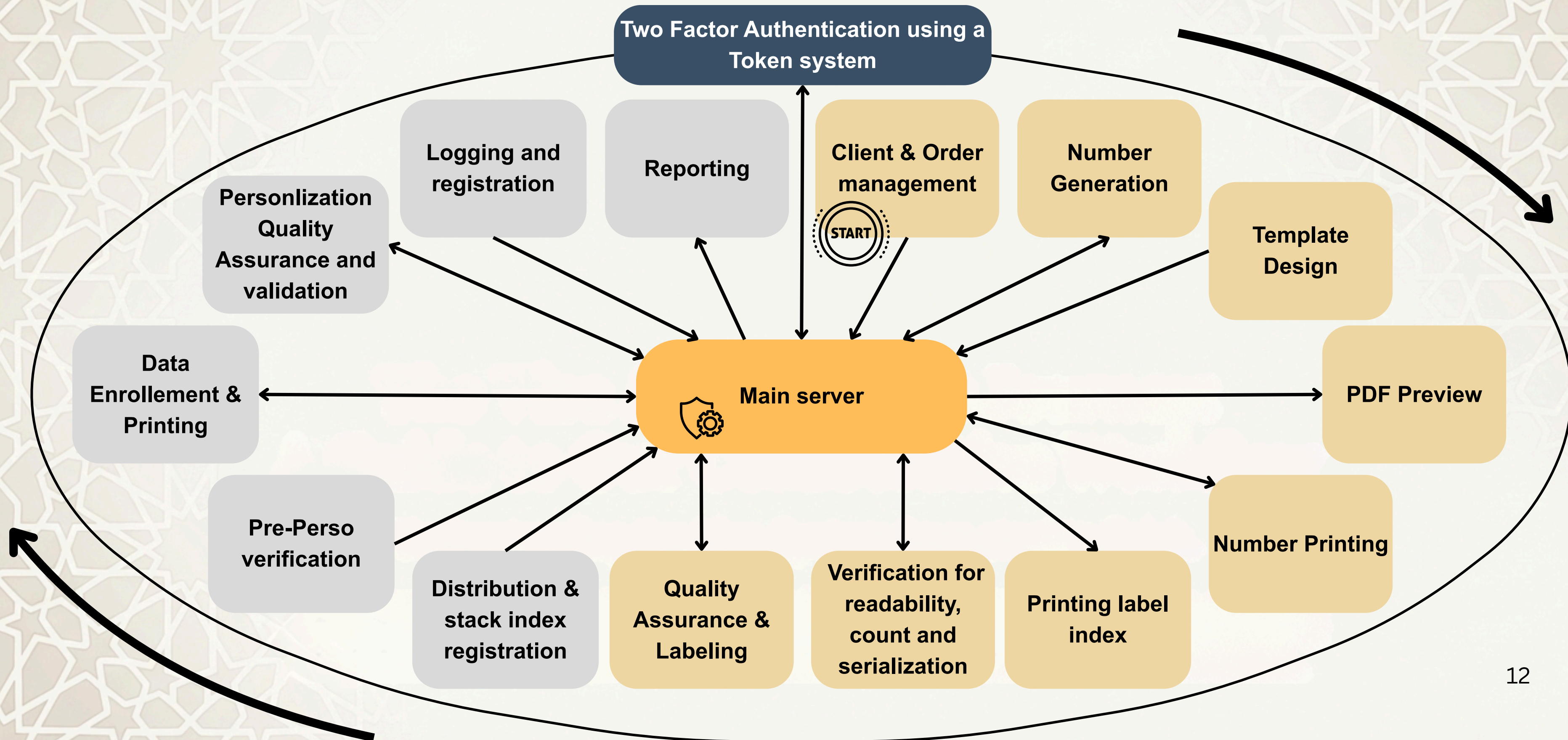
User Access Control (Two-Factor Authentication)

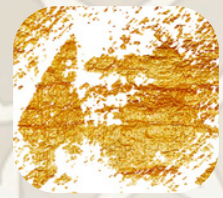


Secure Erasure

The system logs all actions for all users' interventions, and control user access using a token **Two-factor authentication (2FA)** to restrict system misuse, beside that the system runs in a secured enviroment.

SDMS Secured environment





SPHINX

Thank You

Our Office

35, El Obour buildings, Salah Salem
Road, 24th floor apt 7.
Nasr City, - Cairo - Egypt

Phone

+ 202 208 22 289
+ 202 208 22 177
Fax: + 202 208 22 178

Email

info@sphinxcommercial.com