

**SPHINX**

# System Overview

It's a **Visa Management System** that serves as the centralized system for the global consulate network. It provides a suite of tools that are secure, efficient, and user-friendly. The system supports the issuance of **visa stickers** and the **e-visa portal**.

The system generates the unique numbers and serial numbers of visa stickers during sticker manufacturing (pre-perso) and issuance (perso).

**Visa sticker issuance in consulates:** Every visa application follows a nine-step path.

A consolidated simplified journey is available for smaller consulates with lower visa demands.

The workflow starts from initial application barcode printing to visa sticker delivery.

The system supports integration with 3<sup>rd</sup> parties to verify the application and the attached documents before submission (pre-enrollment).

**E-Visa:** Applicants apply and receive their visas online after entering the required information and making the payment online.

The e-visa is an electronically signed visa in the form of a PDF file.

**Central Dashboard:** The system provides real-time operational analytics. Users can monitor global connectivity, track visa sticker inventory, and generate detailed financial reports.

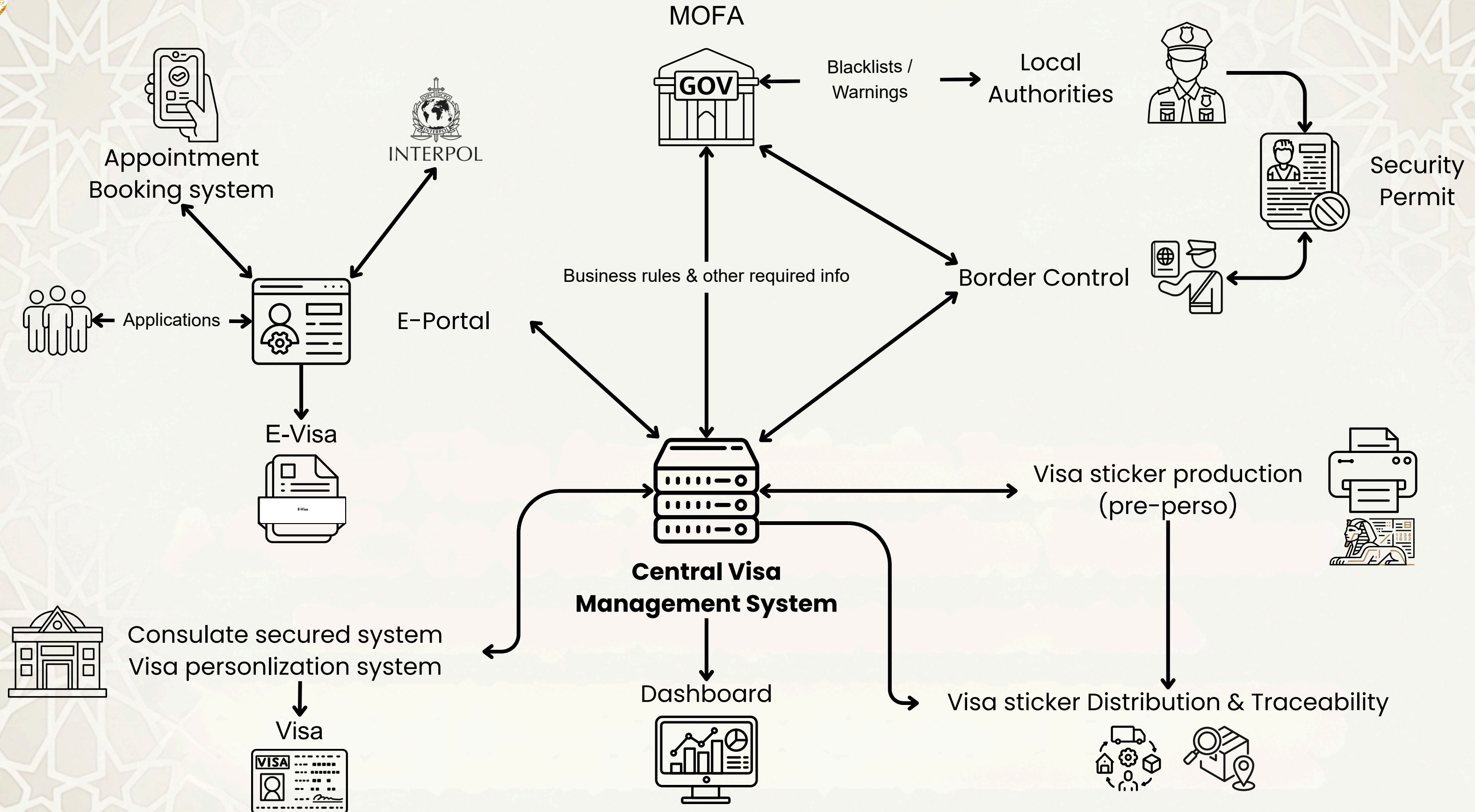
**The system is designed for and compatible with the ICAO Standard.**





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# Visa System Framework





# Validation Rules (Example)



## Business Rules (Generic)

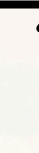
- Duration per countries / entry date
- Price per country
- Group of countries
  - a. Immediate automatic
  - b. X hours for issuance
  - c. appointment with embassy

**N.B: Business rules are defined by the country regulations, and the system is adjustable for the requirements**

### You can define

- what are the type of visa visitor can apply for (i.e. 30 days / multiple entries, etc...).
- Add a specific price per country and per Visa type.

Countries	Visa A	Visa B
Country 1	C Price 30\$	C Price 35\$
Country 2	A Price 45\$	B Price 50\$
Country 3	B Price 40\$	C Price 40\$



**Groups definition:** you can define the issuing rules:

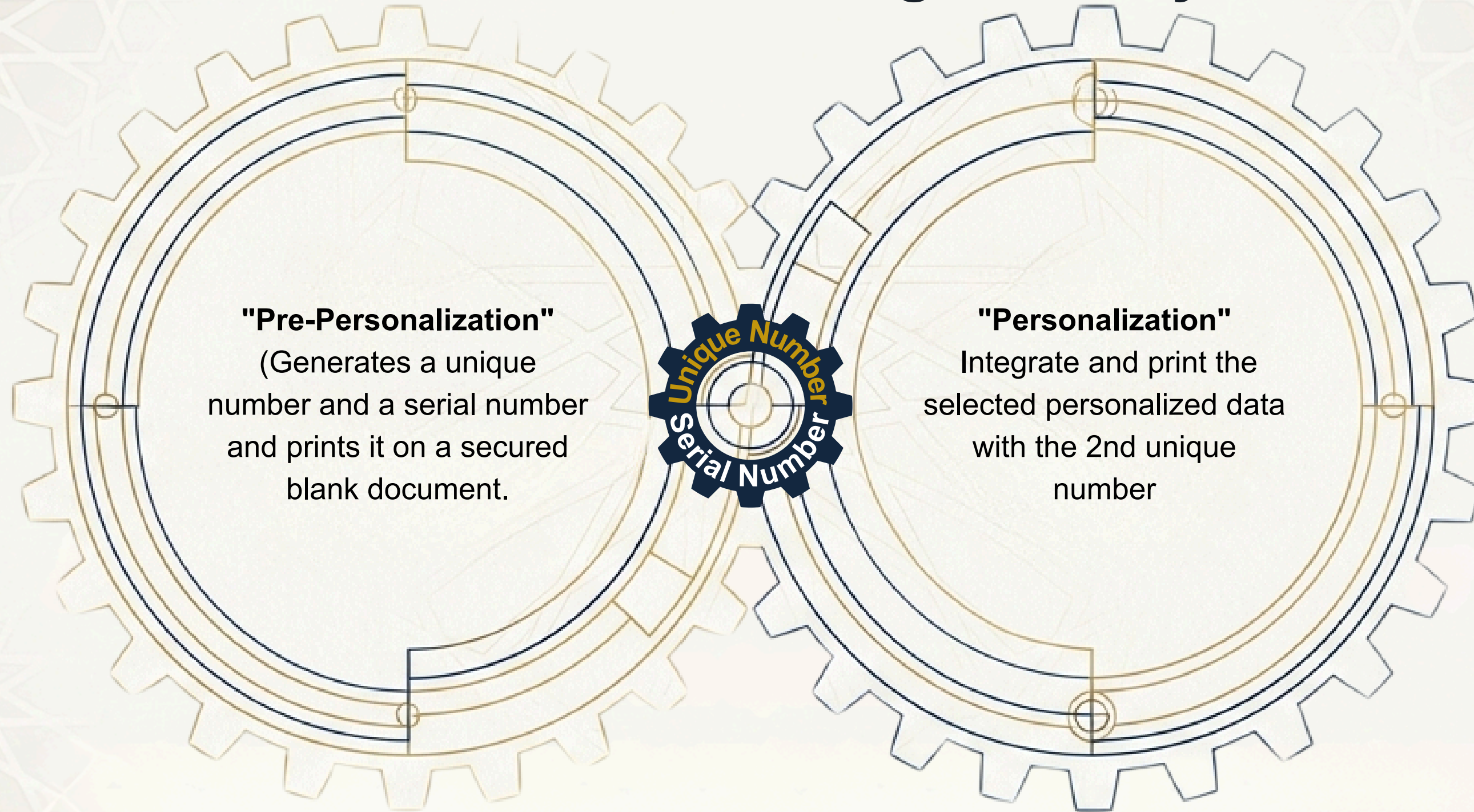
- Group A: Immediate automatic approval
- Group B: 1 Week for approval (Requires Security Clearance)
- Group C: Only Through face to face interviews





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# Visa Secure Sticker Management System



**Key Benefit:**

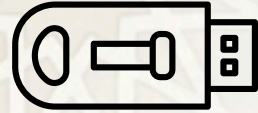
Control the process of visa sticker manufacturing till the end of the document life cycle.





# Visa Secured Sticker Management System Workflow

## Pre-perso Numbering



**2 Factor Authentication  
Token system**

Order management and  
Order Batching

Number Generation

Template Design

PDF Preview

Pre-perso number Batching  
for printing and indexing

Verification for readability,  
count and serialization

Quality Assurance &  
Packaging

## Distribution

## Stack index registration

## Personalization

Reporting

Pre-perso  
verification

Data Enrollement

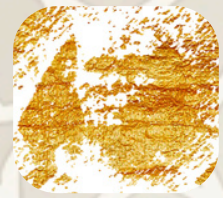
Personalization

Quality Assurance  
and validation

Logging and  
registration

End of document  
lifecycle

Reporting



# Phase 1 (Pre-Personalization)

The Goal: Secure the physical blank visa sticker by a  
1)secure number for Pre-perso identification  
2)serialization for traceability



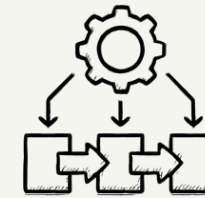
1



### System Access Control

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

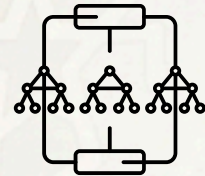
2



### Order Management and Batching

Management of order data and jobs batching

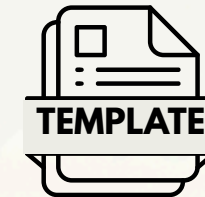
3



### Number Generation

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

4



### Flexible Template

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

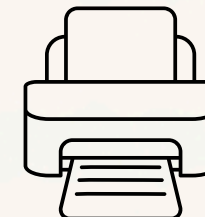
5



### PDF Preview

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

6



### Printing Controls

Batching, supports multi printing machines, printing indexing slips

7



### Verification & Scanning

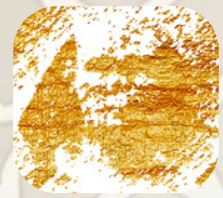
Documents are scanned in batches to check for readability, sequence, and count

8

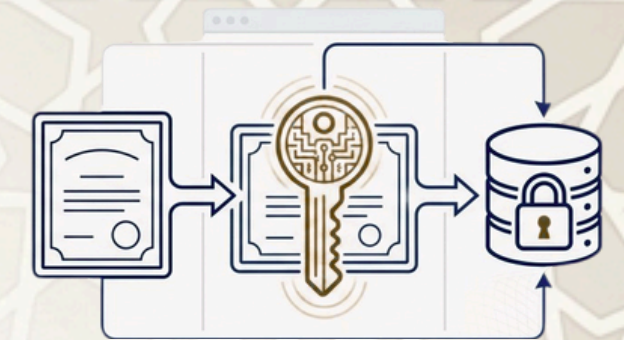


### Quality Assurance & Labeling

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

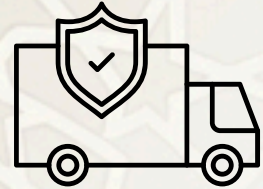


# Phase 2 (Distribution and Personalization)



The Goal: distribute and personalize the blank visa sticker by identifying the manufacturing unique number and serial number, then create a second secure number and link it for personalization identification

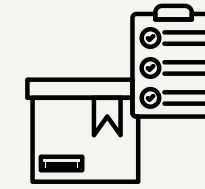
1



### Distribution

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

2



### Stack index registration:

All secured documents to be registered for the personalization center stock

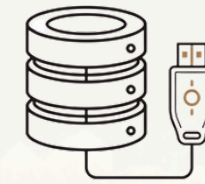
3



### Pre-Perso Document verification

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

4



### 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

5



### Perso Quality Assurance & Validation

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

6



### Logging and registration

Ensures the registration and logging of the issued visa

7



### Delivery

This mark the lifecycle creation of the document as ended

8



### Comprehensive Reporting

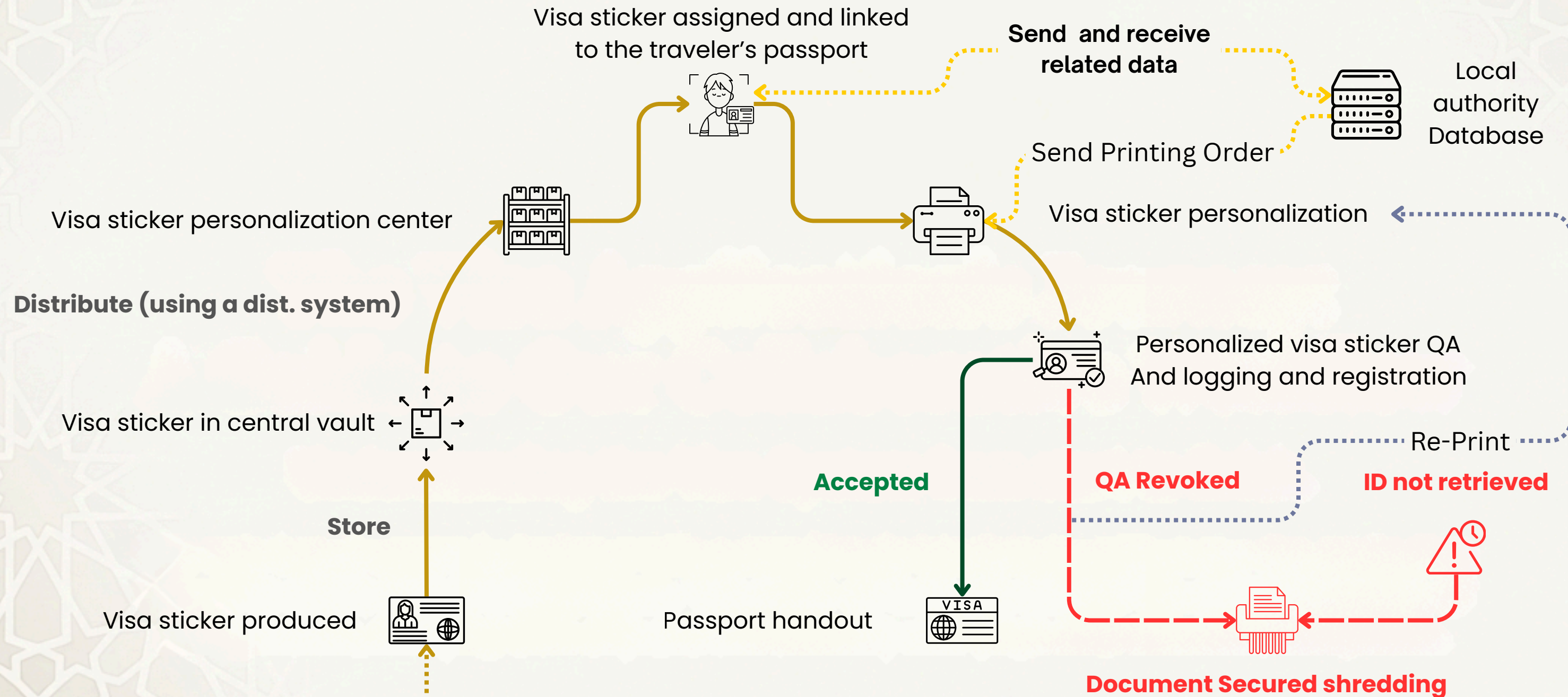
Integrated reports for production, customer activity, quality control, and document status queries

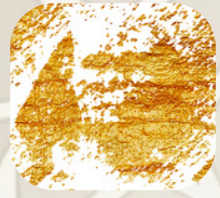


# Manage Visa Sticker Stock

This VMS module serves as a basic inventory management system for official visa stickers, ensuring every sticker is accounted for from the number generation and serialization to the visa sticker delivery to applicants.

## Sticker Lifecycle Management





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# E-VISA

## E-VISA

### E-VISA APPLICATION طلب التأشيرة الإلكترونية ELECTRONIC VISA SERVICE خدمة التأشيرة الإلكترونية

VERIFY E-VISA



SCAN FOR VERIFICATION

2020-104-597492

#### Visa Information

Visa Number	رقم التأشيرة
Validity From	صالحة من
Validity To	صالحة إلى
Visa Type	نوع التأشيرة
Purpose of Visit	الغرض من الزيارة
Number of Entries	عدد السفرات

#### Personal Information

Full Name (as per Passport)	الإسم الكامل (كما في جواز السفر)
Nationality	الجنسية
Date of Birth	تاريخ الميلاد
Gender	الجنس

#### Passport Details

Passport Number	رقم جواز السفر	Passport Type	نوع الجواز
Place of Issue	مكان الإصدار		
Date of Issue	تاريخ الإصدار	Date of Expiry	تاريخ الإنتهاء

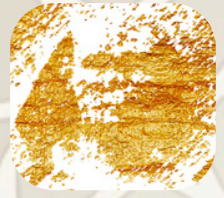
#### Travel Details

Duration of Stay	مدة الإقامة	Port of Entry	ميناء الدخول
Contact Details in Egypt		بيانات الإتصال في مصر	

This E-Visa is valid for entry to the destination country. Travel is subject to conditions.  
Issuing Authority: Validating Authority: E-Visa Service (Generic text, not actual entity, styled professionally).

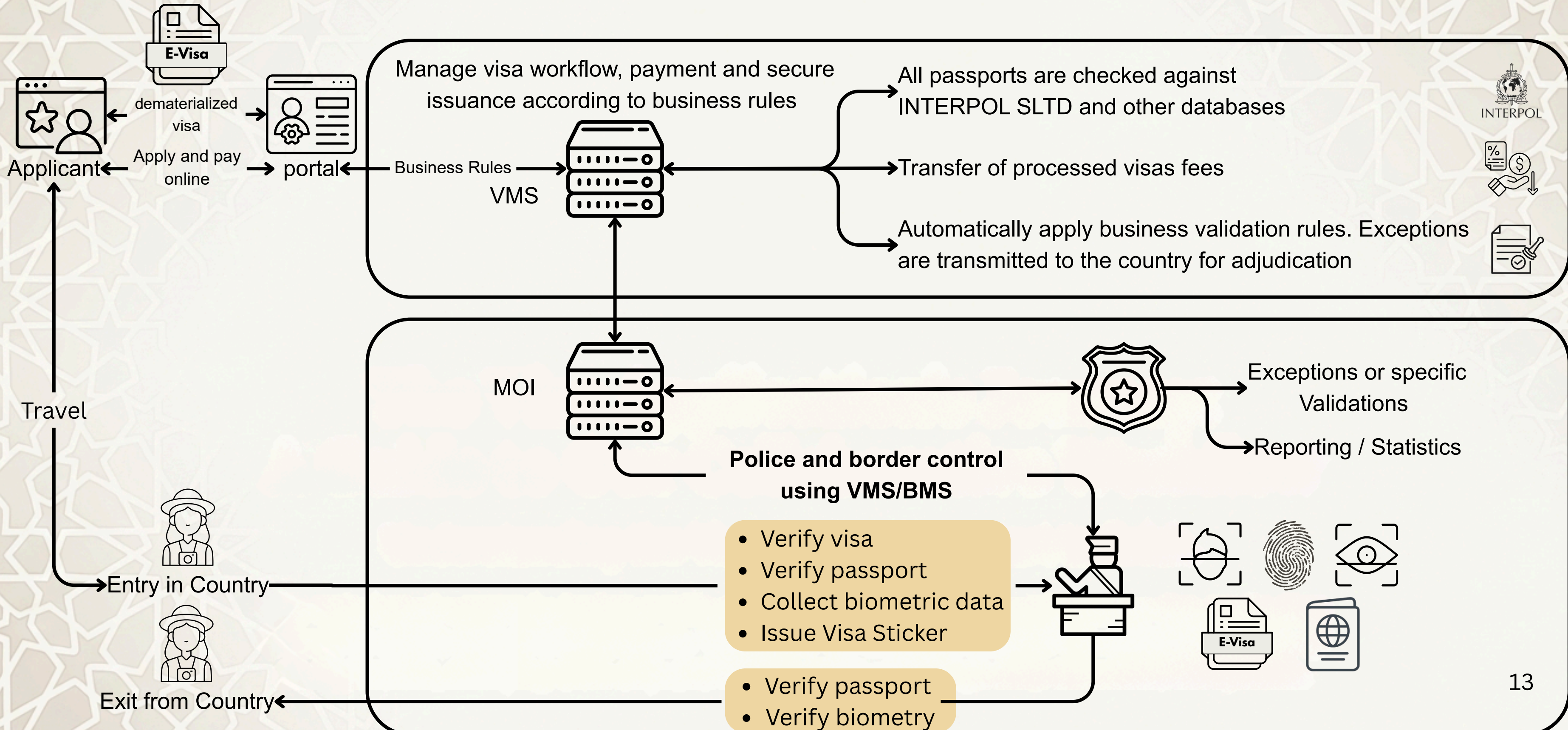
Date Issued: Document ID: EV-XXXXXXX. Valid for Travel.

E-Visa services - UTOPIA [www.utopia.ut.gov](http://www.utopia.ut.gov)



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# E-Visa Process Overview

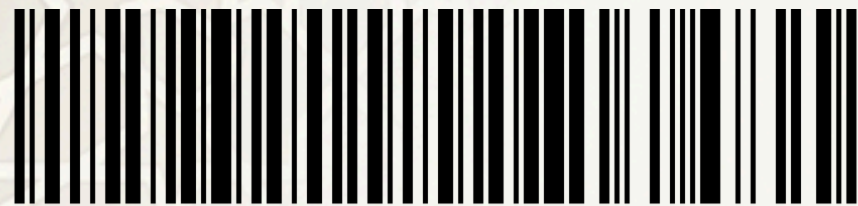




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# Entry / Exit Verification process

- Passport verification is conducted with your existing process
- Visa is verified thank to its electronic signature
- Passport is stamped with validity
- On the field verification scan be done by checking the online database with an internet connection



2026-164-597492

Visa is scanned using a scanner



Verification against the list of issued visas



Passport is scanned and verified using Doc. Verification of identity & matched to the Visa



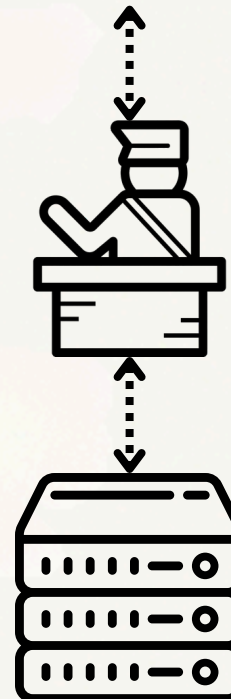
Biometrics are collected and checked against local and international databases to detect suspicious or wanted identities

While exiting the territory the system check if the visitor have overstayed or is within the time range specified for the visit



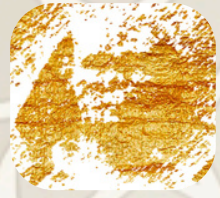
Check visa status (Overstay or Compliant)

The exit verification process is simply to scan the passport and verify the guest's biometrics



**BMS**

**VMS**



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# E-VISA Example

**E-VISA**  **E-VISA APPLICATION**  
طلب التأشيرة الإلكترونية  
ELECTRONIC VISA SERVICE  
خدمة التأشيرة الإلكترونية

**Visa Information**

Visa Number	رقم التأشيرة
Validity From	صالحة من
Validity To	صالحة إلى
Visa Type	نوع التأشيرة
Purpose of Visit	الغرض من الزيارة
Number of Entries	عدد السفرات

**Personal Information**

Full Name (as per Passport)	الإسم الكامل (كما في جواز السفر)		
Nationality	الجنسية		
Date of Birth	تاريخ الميلاد	Gender	الجنس

**Passport Details**

Passport Number	رقم جواز السفر	Passport Type	نوع الجواز
Place of Issue	مكان الإصدار		
Date of Issue	تاريخ الإصدار	Date of Expiry	تاريخ الإنتهاء

**Travel Details**

Duration of Stay	مدة الإقامة	Port of Entry	ميناء الدخول	
Contact Details in Egypt				بيانات الإتصال في مصر

This E-Visa is valid for entry to the destination country. Travel is subject to conditions.  
Issuing Authority: Validating Authority: E-Visa Service (Generic text, not actual entity, styled professionally).  
Date Issued: Document ID: EV-XXXXXXX. Valid for Travel.

E-Visa services - UTOPIA [www.utopia.ut.gov](http://www.utopia.ut.gov)

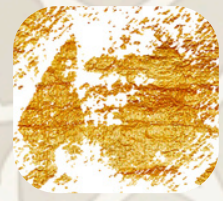
Unique number

←.....  
EGVS1-26-497513649

Serial number

←.....  
2026-164-597492





# Every application follows a nine-step path.



**Book an appointment**



Print Barcode



Document Verification



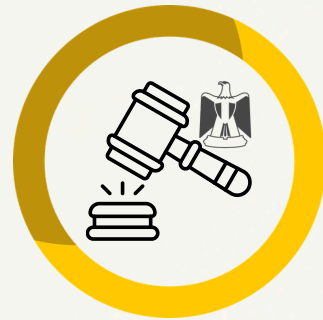
Biometric Enrollement



Registring Application



Consulate Review



Consular Decision



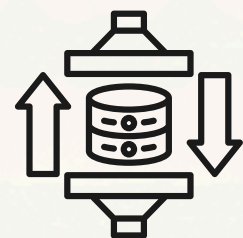
Print Visa Sticker



Quality Assurance



Delivery



## Consolidated system (Optional)

A simplified journey is available for smaller consulates with fewer employees and lower visa demands. The consolidated steps can be implemented and adjusted according to your process and requirements.



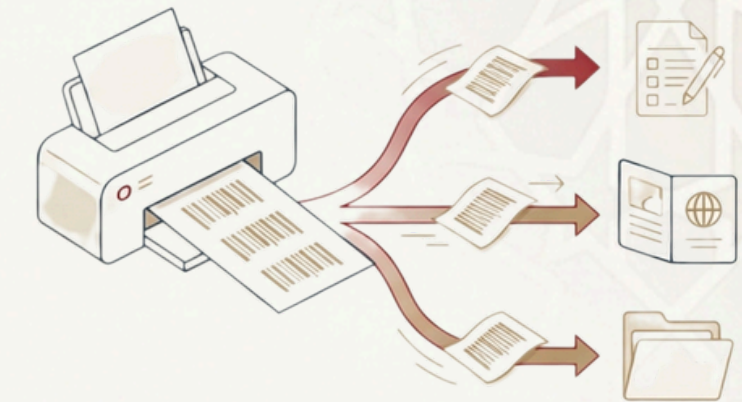
## Step 1: Print Barcode



The journey begins when the Barcode Printing User generates a unique barcode ID for the applications. The system prints three identical copies of the barcode.

Barcode Allocation:

1. On the application form.
2. On the applicant's passport.
3. Archived as a reference or added on the receipt (Optional)



## Step 2: Document Verification

The consulate responsible or the 3<sup>rd</sup> party office user verifies the documents according to the **visa requirements and the business rules.**

This pre-enrollment step includes payment.



Visa type, duration, etc.

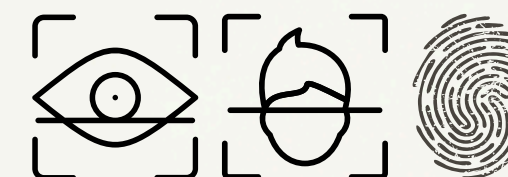


## Step 3: Biometric Enrollment

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After Documents Verification and payment, the biometric of the applicants is taken and saved to the application.



Biometric Enrollement



## Step 4: Registration

The registration user creates the digital application file by scanning the printed barcode and the MRZ of the passport.

The user fills in the digital application information.

1. Scan the barcode to automatically create a new application entry.
2. Use an MRZ reader to scan the passport to auto-fill key fields.
3. Manually enter remaining data from the hard copy application.

After accepting the application, the status changes to "Required for consulate review."



Passport details



Applicant's contact information



Accompanying passengers details



Attachments: (Example): Certificates,  
Bank statements, etc...



## Step 5: Consulate review



The Review User finds all applications with the "Require Review" status on their dashboard and opens them for verification.

- Verify the accuracy of all data entered by the registering user across the five tabs.
  - Review comments from previous users.
  - Add comments or attach additional documents as needed.
  - Black list check
- **At this step, background check are made to ensure that the applicants isn't on any Blacklisted database (Local authority and interpol) and providing a Security permit.**



Security  
Permit

**Application Review Dashboard**

Passport Visa Contacts Stickers Cominities Segouiciars

Paulist none \* 601013020  
First name \* Arcan Hbrne  
Date number \* Braon ksira  
Language \* Bahite Redorab  
Pasceord date \* 0002/2024  
Contacts name Eosrsle  
Bessord type United States

Rest name \* Last Name  
Previous title \* Secenlar  
City 140 2021  
Generat type \* French  
Location \* On hold

**Comments**

- Rowit User 5 hours ago  
The application is correct. Errors changes exist in the near in the Consular.
- Aolon Selaroon 5 hours ago  
The contacts connects user in Consular.
- Medlehd User 1 min ago  
The application contains errors. Status changes to "Require" it back to the user.

Accept On Hold



**Accept:** The application is compliant.

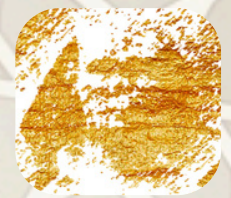


**On Hold:** The application contains errors or requires a consular decision.



## Step 6: The Consular Decision

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The Consular User reviews all applications with the "Require Approval" status.

### The Decision



#### Accept

The application is approved. Status changes to "Require Printing," and it proceeds to the next stage.



#### On-Hold

The application is sent on hold for corrections. Status reverts to "Require Update" for the Issuing User. The Consular User should add a comment explaining the reason.



#### Reject

The application is terminated. It will not proceed further in the issuance process.



## Step 7: Visa Issuance

**Key Action:** After specialist or consular approval, the application appears on the printing user's screen with the status 'Require printing'.

- The user manually enter the application number into the system to retrieve the correct application file.
- The system then allows the printing of the official visasticker.

**Outcome:** Once the sticker is printed, the application's status is automatically updated to 'Require QA.' It now moves to the final quality check.





## Step 8: Quality Assurance, Logging And Registration



The QA User performs a final check on the printed visa sticker.

Before verifying, the QA User must enter three key data points:

1. Factory Number (unique number)
2. Visa Sticker MRZ
3. Passport MRZ

An error message will appear if any of these inputs are incorrect.

A visual inspection is then done to ensure sticker integrity.

After the verification the system logs and register the creation of the visa.

The screenshot shows a web interface titled "Verifying QA page". It contains several sections: "Application Details" with fields for Appl ID, Applicant name, Las number, and Data; "Applicant Information" with fields for Factory Number, First name, Visa Sticker MRZ, and Passport MRZ; and "Visa Information" with fields for Model, Visa code, Applicant number, Visa crede (showing 7 May2023), and Visa Indocation. At the bottom, there are two buttons: "Verify" (yellow) and "Reprint" (purple).

All data matches. The application status (Accepted)."

An error exists on the sticker."Require Reprint."



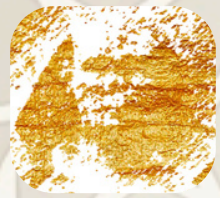
## Step 9: Visa Delivery

Manage the final handoff of the passport and visa to the applicant, handling three potential scenarios seen on the dashboard.



### Delivery (Accepted)

The visa is ready. After handover, the user presses "Delivered," and the application is removed from the active applications list.



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**GLOBAL VISA MANAGEMENT PORTAL** Search Oct 26, 2023 JD John Doe Admin

- Dashboard
- Applications
- Applicants
- Appointments
- Reports
- Settings

**Total Applications**  
12,450  
+8.2% ^

**Approved Visas**  
8,125  
+15.3% ^

**Pending Reviews**  
2,740  
-4.1% v

**Denied Applications**  
1,585  
+2.5% ^

**Monthly Application Trends** Last 12 Months

**Application Status Breakdown**

**Application Heatmap & Nationalities**  
Volume by Country

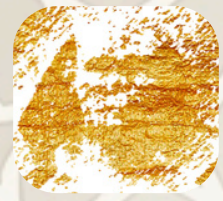
**Visa Type Distribution**

Tourist	40%
Work	30%
Study	20%
Family	10%

**Recent Applications**

Applicant Name	Visa Type	Nationality	Date	Status	Actions
Sarah Chen	Study F1	China	Oct 26, 2023	Pending	<a href="#">Edit</a> <a href="#">More</a>
David Smith	Work H1B	UK	Oct 26, 2023	Approved	<a href="#">Edit</a> <a href="#">More</a>
Dehit Mary	Study F1	China	Oct 26, 2023	Denied	<a href="#">Edit</a> <a href="#">More</a>

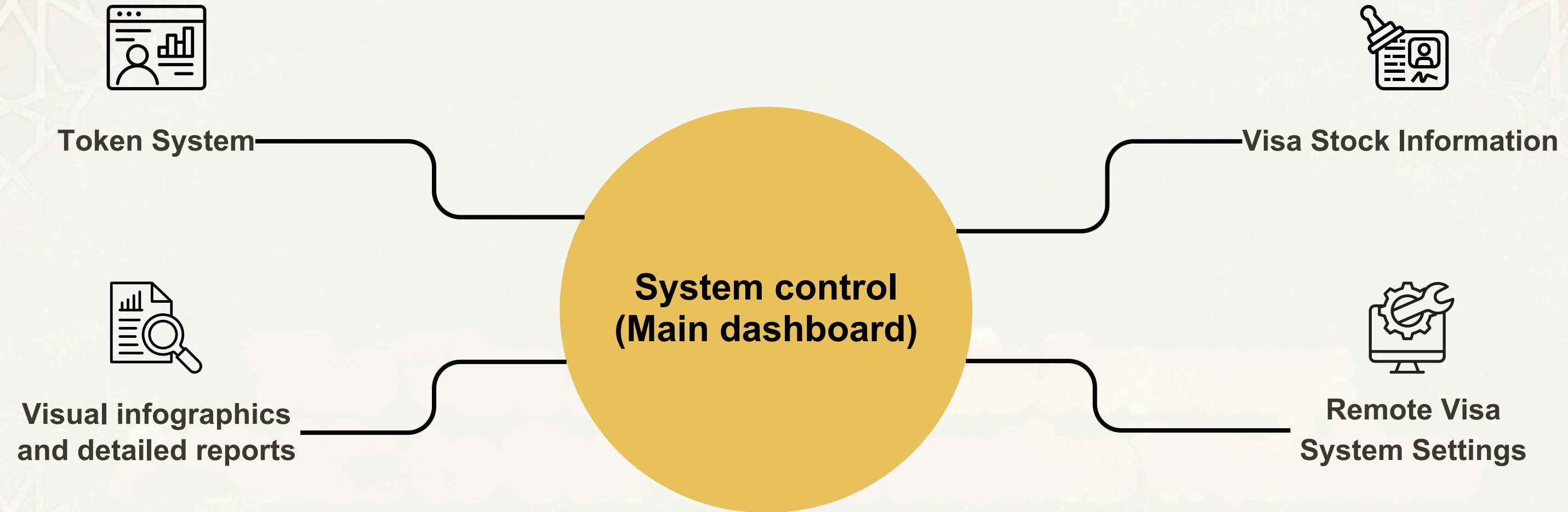
# Visa Management System Administrative Dashboard



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# Administrative Central Dashboard

A suite of administrative tools to ensure the system is compliant with your regulation



**Token System:** Control and secure user access.

**Visa Stock Information:** Visual analytics for the Visa stock globally and per consulate.

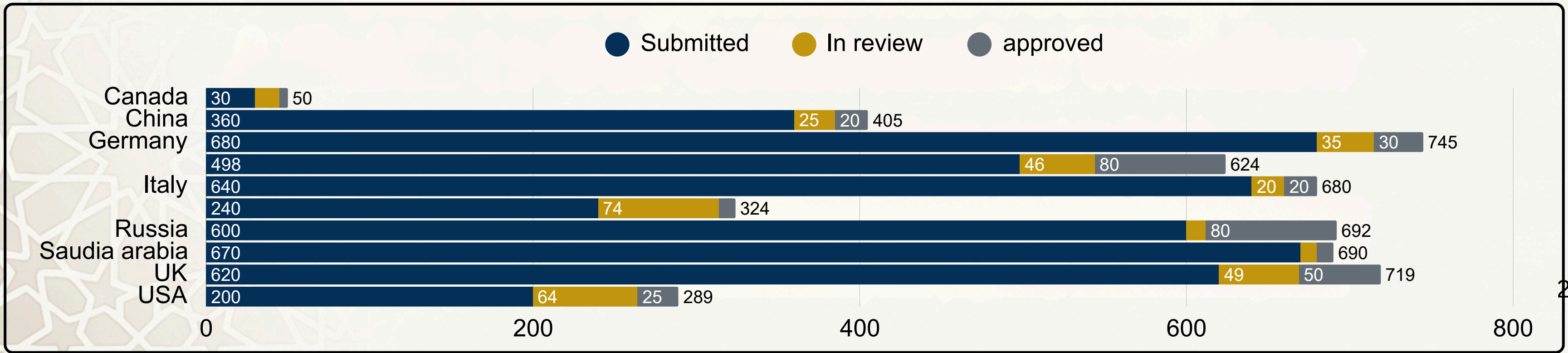
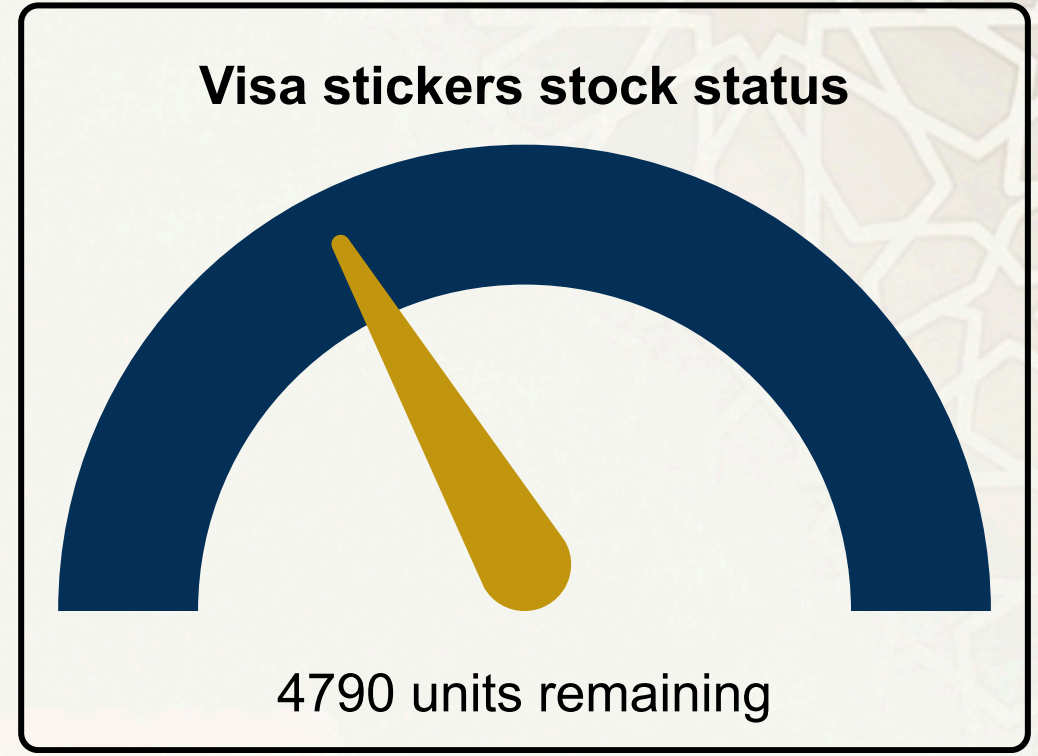
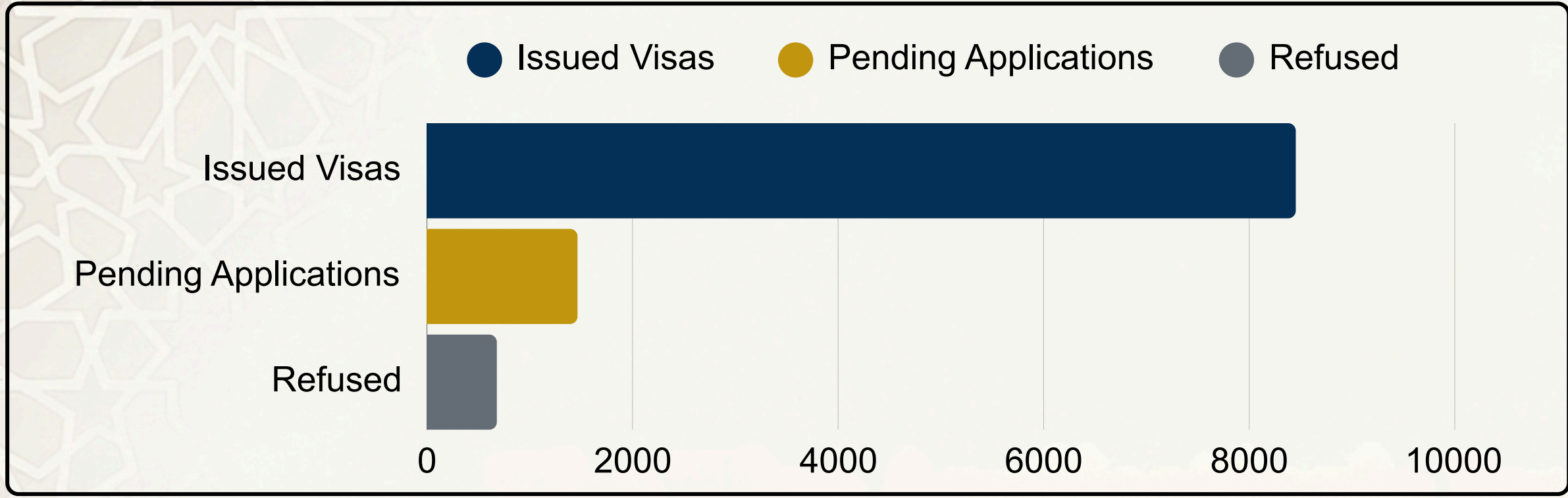
**Visual infographics and detailed reports:** Visual and detailed financial, demographic, and operational infographics and reports.

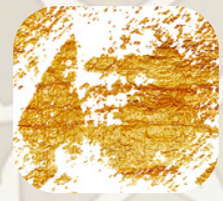
**Remote Visa System Settings:** Adjust visa prices and consulate activity, etc.



# Operational Analytics

Real-time monitoring of workflow volume, inventory stock levels, and applicant demographic distribution.

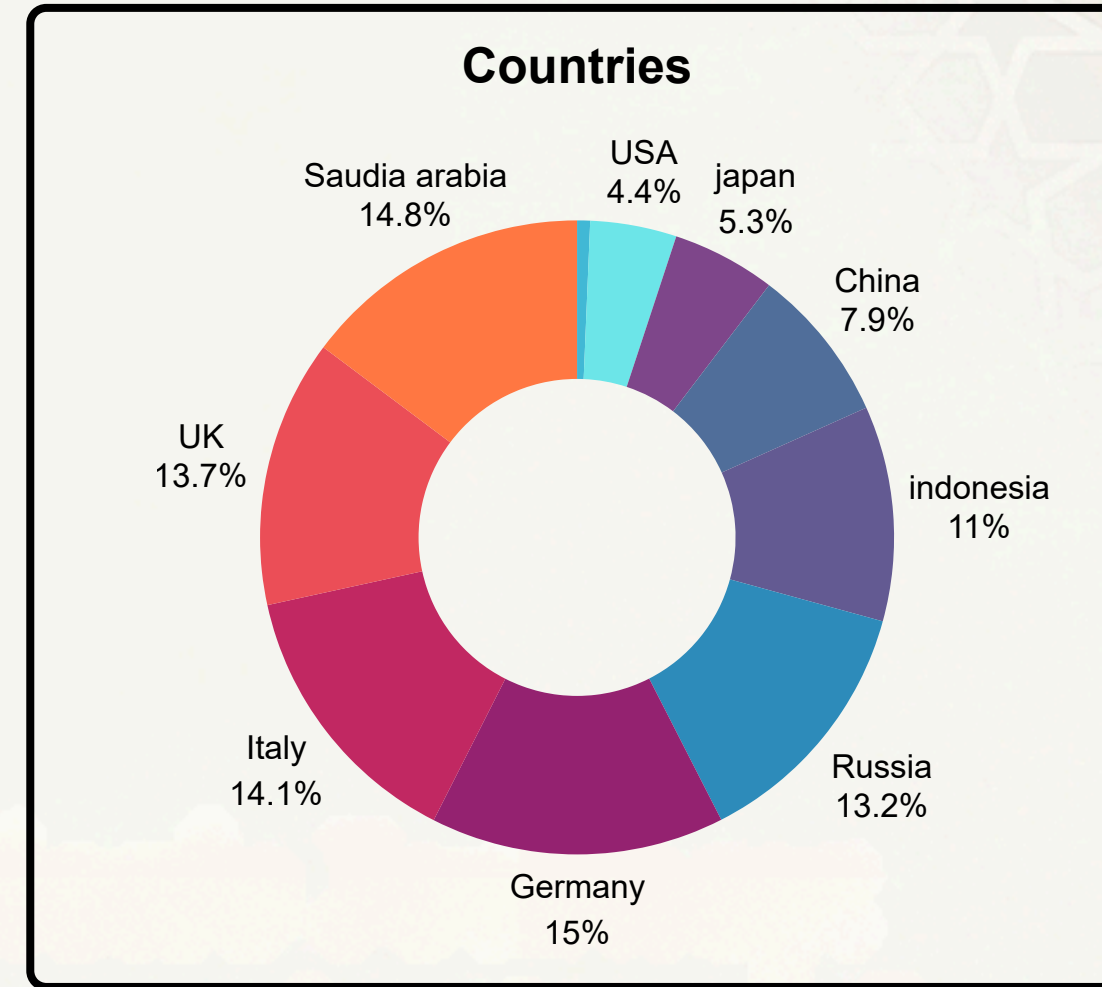
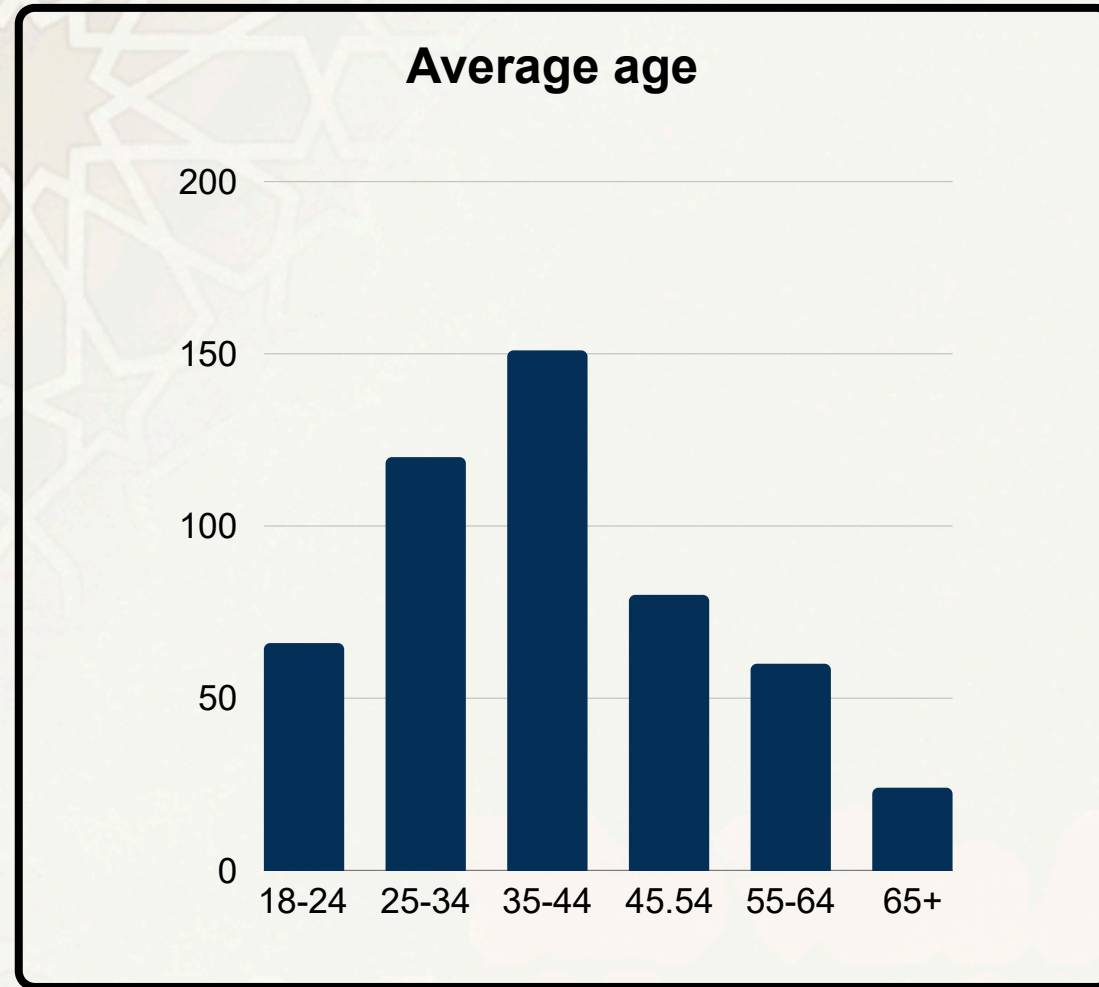




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# Applicants Demographics & Insights

Data visualization for age and nationalities applying for the visa.  
Can be sorted by embassy or globally.



## Network Connectivity Status



The system provides real-time status of all consulates.

Status indicators include a timestamp for the Last Updated Date to ensure data integrity.



# Central Dashboard: Configuring the System's Settings

The Settings module allows authorized administrators to manage the core parameters that define the operational criteria for embassies, countries, and ports of entry.

## Embassies



Function: Edit settings for existing embassies (Note: new embassies are added via an external application).

### Configurable Info:

Adjust business rules, currency used, and Minimum Visa Stock Level.

**Visa Settings:** Add, edit, or delete specific visa types available at that embassy.  
Adjust their price and other parameters.

## Countries & Cities



Function: Manage the geographical database.

### Configurable Info:

- Add new countries (with name, code, and at least one city).
- Edit existing countries to add or remove cities.
- Suspend/delete countries.

## Ports



Function: Manage the list of official ports of entry.

### Configurable Info:

- Add new ports (with a name and type, e.g., airport, seaport).
- Edit the name or type of existing ports.
- Suspend/delete Ports.



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## Central Dashboard: User Access and token system

Strict user management and system access control using two-factor authentication (2FA) that uses a token system

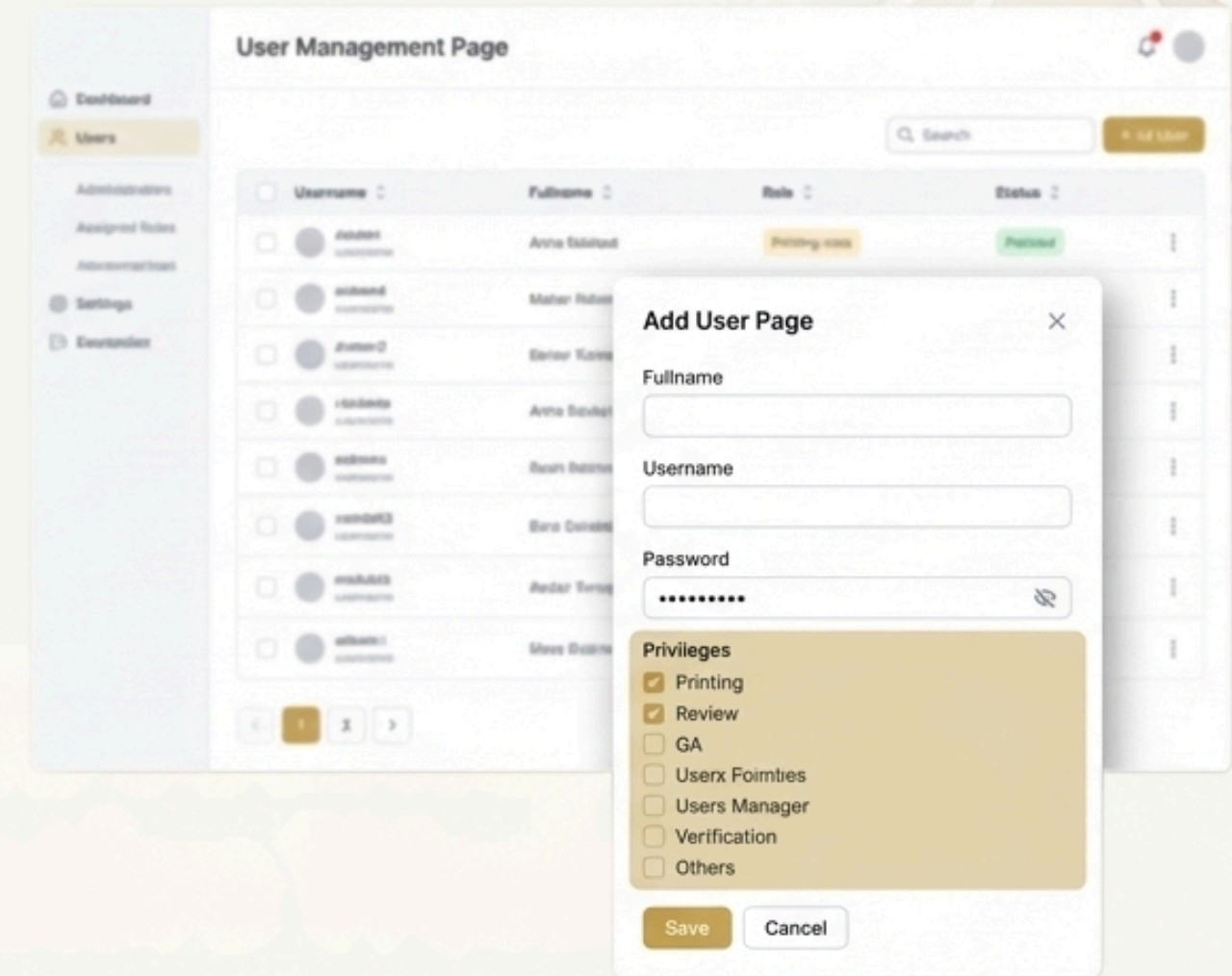
User Administration Control User Access and Roles

**Add User:** Create new user accounts

**Set Privileges:** Assign specific roles (e.g., Issuing, Review, Consular)

**Edit User:** Modify existing user credentials or privileges.

**Activate/Deactivate:** Instantly enable or disable a user's access.





## Central Dashboard: System Reports

Generate detailed reports for operational oversight, financial reports, and inventory audits. All reports can be filtered by date range and exported to Excel, PDF, or Word.



**Applications/Issued Visas Report:** Track application transactions, filterable by nationality and application type.



**Financial Report:** Provides detailed financial breakdowns and a 'Daily or total payments' summary.



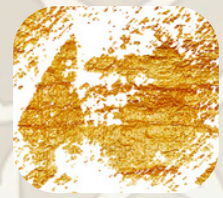
**Visa Stickers Report:** Monitor the status, incoming date, and use date of every sticker's batch.



**Received Visa Stickers Report:** Log of all sticker batches received within a specific period.

The screenshot shows the 'Application Report' window. At the top, there's a title bar. Below it, there are three filter sections: 'From:' with a date picker set to '01/01/2023', 'To:' with a date picker set to '31/01/2023', and 'Nationalities' with a dropdown menu set to 'All Nationalities'. Below the filters is a search bar. Underneath is a table with the following columns: 'Application ID', 'Applicant Name', 'Nationality', 'Status', and 'Date'. The table has three rows of placeholder data. At the bottom of the window, there are three circular icons for exporting the report: Excel (X), PDF, and Word (W).

Application report window.



**SPHINX**

# THANK YOU!

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