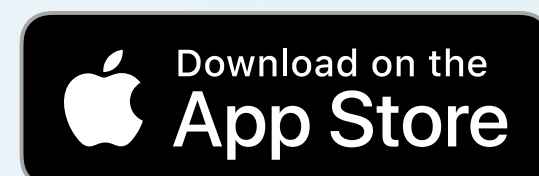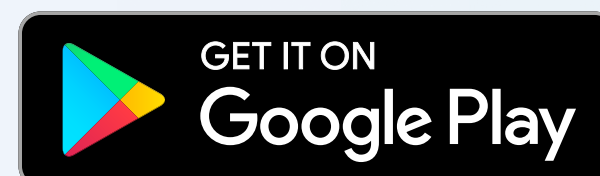# VNPT AI
DEFINE THE FUTURE

A PRODUCT OF VNPT AI ECOLOGICAL SYSTEM VNPT AI

VNPT eKYC

Electronic know your customer

A high-precision electronic identification solution to digitize customer experience, increase conversion rates, and reduce risks for organiztions

GET IT ON
Google Play

Download on the
App Store

WHY CHOOSE VNPT eKYC ?

VNPT's Facial Recognition Technology reach the top 10 in global list

VNPT AI — DEFINE THE FUTURE

VNPT's Facial Recognition Technology
Reach the top 10 in global list

According to the quality assessment and measuarement test of the us national institue of standards and technology (NIST)

KiOSK category - FRVT 1:N (skin color and ethnic diversity)

Top **10** global ranking
FRVT 1:N Identification

Algorithm	Date	Mugshot N = 12000000	Mugshot N = 1600000	Webcam N = 1600000	Profile 90° N = 1600000	Border N = 1600000	Kiosk N = 1600000	Border ΔT ≥ 10 YRS N = 1600000	Mugshot ΔT ≥ 12 YRS N = 3000000
neurotechnology_013	2023-02-03	0.0065[18]	0.0026[12]	0.0182[16]	0.1600[10]	0.0072[11]	0.2412[49]	0.0682[10]	0.0286[15]
s1_004	2023-02-03	0.0062[17]	0.0028[17]	0.0202[22]	0.8062[38]	0.0074[12]	0.9947[75]	0.0859[17]	0.0263[13]
cogent_007	2023-01-30	0.0038[6]	0.0027[15]	0.0178[14]	0.1547[9]	0.0078[13]	0.1205[25]	0.0695[11]	0.0276[14]
maxvision_001	2022-10-28	0.0067[19]	0.0029[18]	0.0187[17]	0.1755[12]	0.0078[14]	0.0801[11]	0.9544[61]	0.0295[16]
deepglint_001	2020-07-23	0.0050[12]	0.0025[11]	0.0116[6]	0.9418[46]	0.0079[15]	0.1081[21]	–	0.0236[10]
griaule_001	2022-07-26	0.0074[20]	0.0030[19]	0.0213[25]	0.7771[37]	0.0079[16]	0.0833[14]	0.9906[62]	0.0310[17]
firstcreditkz_001	2022-11-22	0.0048[11]	0.0022[8]	0.0157[11]	0.2310[16]	0.0088[17]	0.0813[13]	0.0835[16]	0.0195[9]
	2021-11-12	0.0089[24]	0.0037[24]	0.0199[20]	0.2971[18]	0.0088[18]		[19]	0.0440[23]
vnpt_002	2022-09-08	0.0097[29]	0.0047[31]	0.0264[31]	0.2055[13]	0.0090[19]	0.0794[10]	0.1075[22]	0.0473[25]
ntechlab_010	2021-06-24	0.0036[5]	0.0019[6]	0.0125[7]	0.2073[14]	0.0091[20]	0.0806[12]	0.1029[20]	–

VNPT AI

0.0794 [10]

WHY CHOOSE VNPT eKYC ?

VNPT is ready to provide chip-based citizenship authentication service with RAR-C06 (VNPT eKYC IDCheck)

VNPT AI
DEFINE THE FUTURE

The information on the chip-based citizen identification card is accurately authenticated 100% with the RAR-C06 population and citizen identification database of the Ministry of Public Security.

VNPT eKYC IDCheck is a service to verify the correctness, integrity of information, and verify signatures on chip cards with RAR-C06, in order to minimize risks in electronic identity transaction

**RESEARCH AND APPLICATION CENTER FOR RESIDENTS DATA (RAR)**

CASE STUDY

Customers: **Banks, Securities companies,...**

eKYC applications: **On boarding – Account register**

Effects

- Transaction time reduced **from 15-20 minutes to 1.5-2 minutes**
- Work productivity increased **15 times**
- **Millions of new accounts** opened during the **Covid-19 pandemic**
- **35,000 new customers** register iMoney on HDbank app, **15,000 accounts** have verified information online
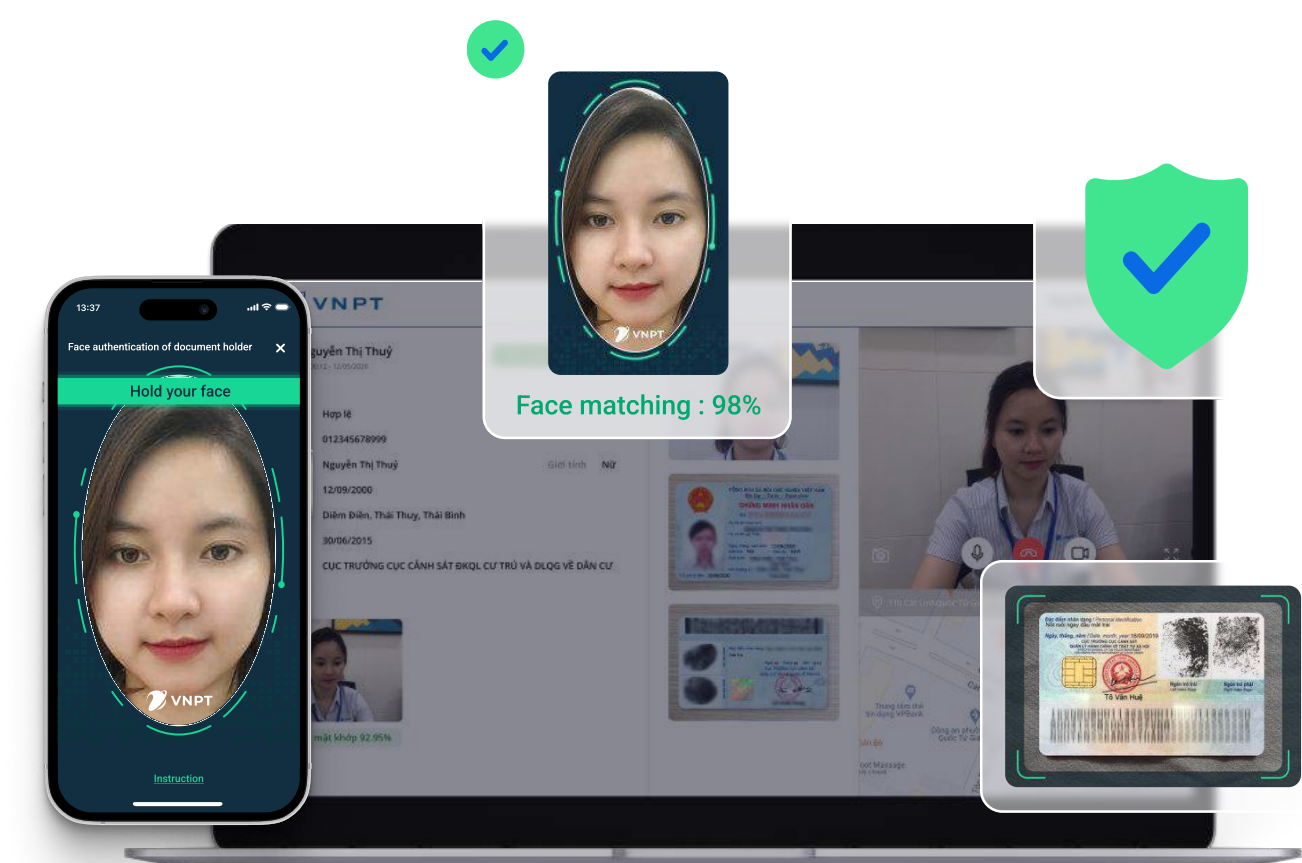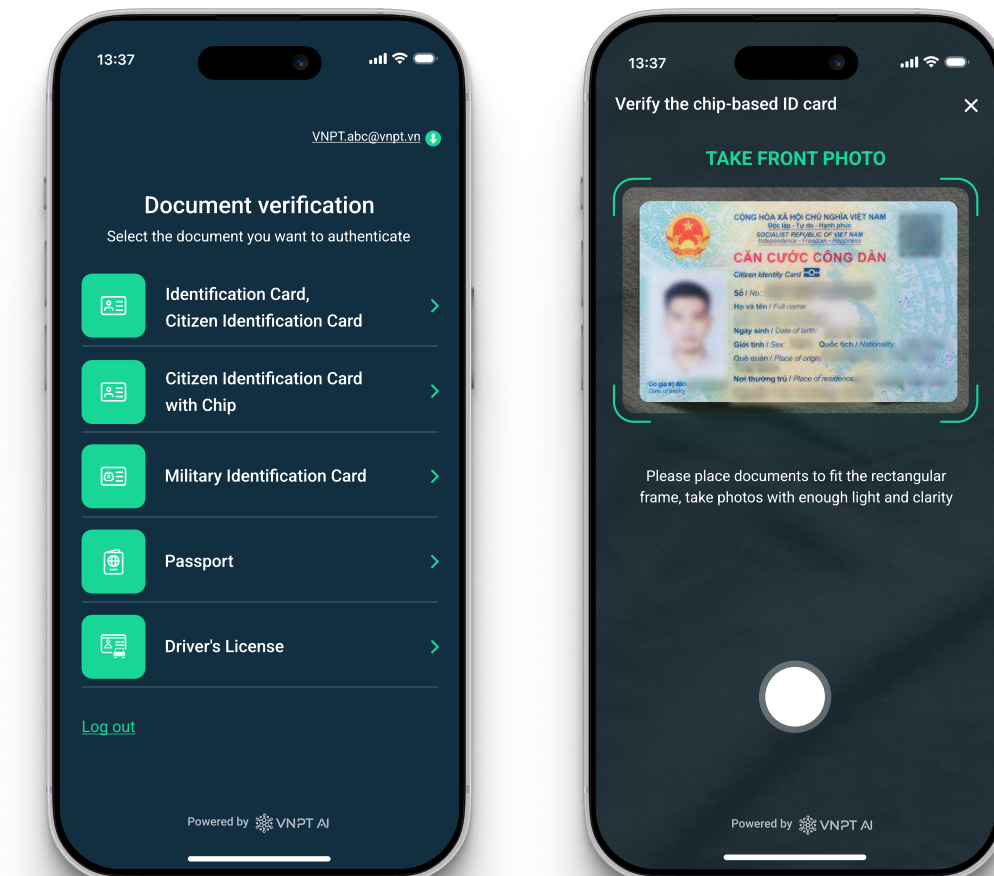
Effects

VNPT SmartCA becomes a pioneer in providing digital signatures in Vietnam by integrating electronic identity VNPT eKYC. It provides a completed experience for all customers when using digital signatures in electronic transactions: registration, activation of digital certificates and purchase of signatures are done completely online.

VNPT SmartCA
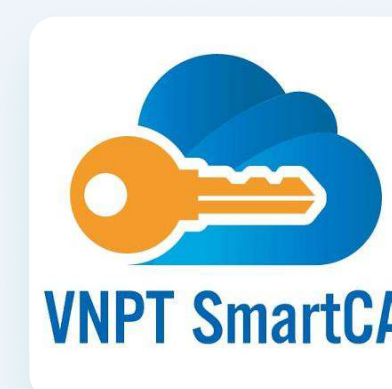
Ký số thành công!

Trạng thái
Đã kích hoạt

Họ tên:	**Nguyễn Mai Phương**
CMND/CCCD:	001012345678
Hiệu lực:	29/06/2021-30/07/2021
Đơn vị:	VNPT IT
Số seri:	123456

CASE STUDY

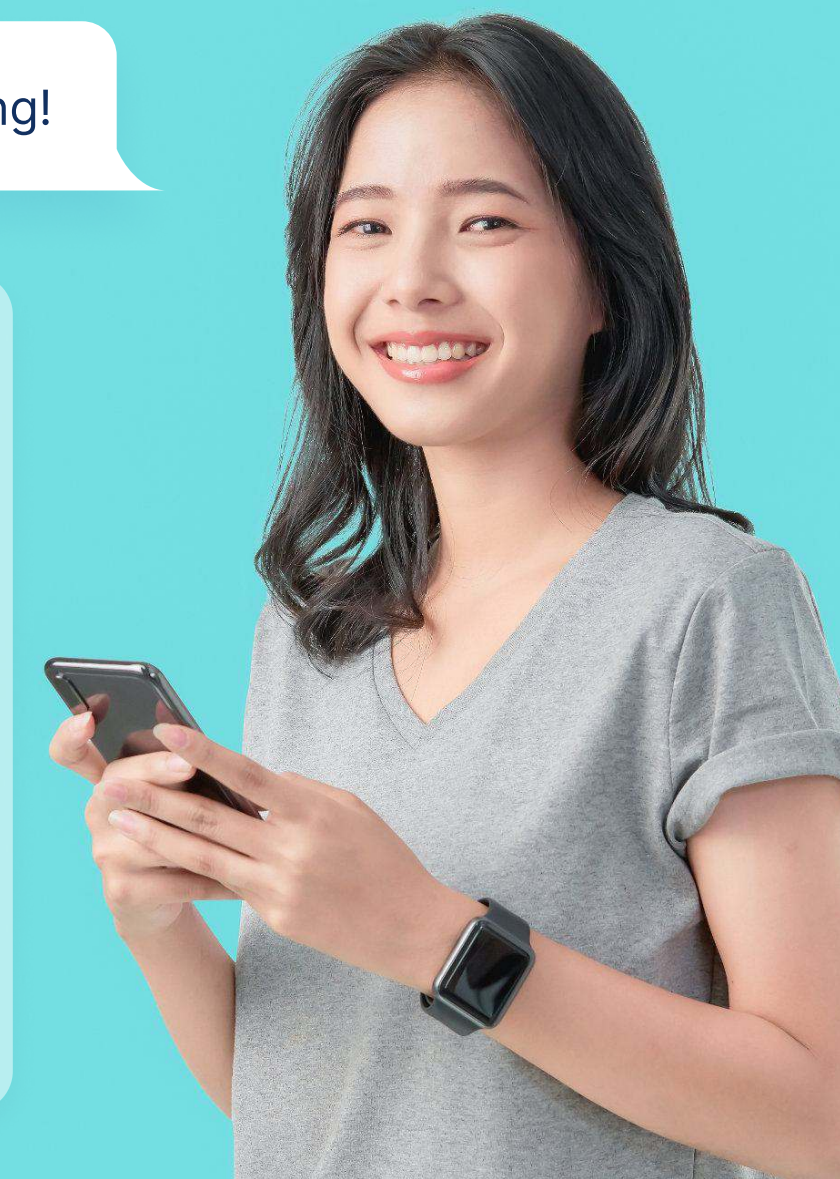Support the process of registering SIM cards, limiting the problem of Vinaphone's unregistered Sims

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DEFINE THE FUTURE

Effects

vinaphone

- For distribution agents, after implementation, VNPT eKYC has helped to identify customers who have registered for SIM in order to limit the problem of unregistered and non-existent customers (virtual customers).

- VNPT eKYC also supports correct identification to prevent distribution agents from activating SIMs for inappropriate purposes.

- For owners, VNPT eKYC helps to prevent phone number spoofing as well as to experience 4.0 telecommunications services, minimizing physical contact between customers and Vinaphone staff
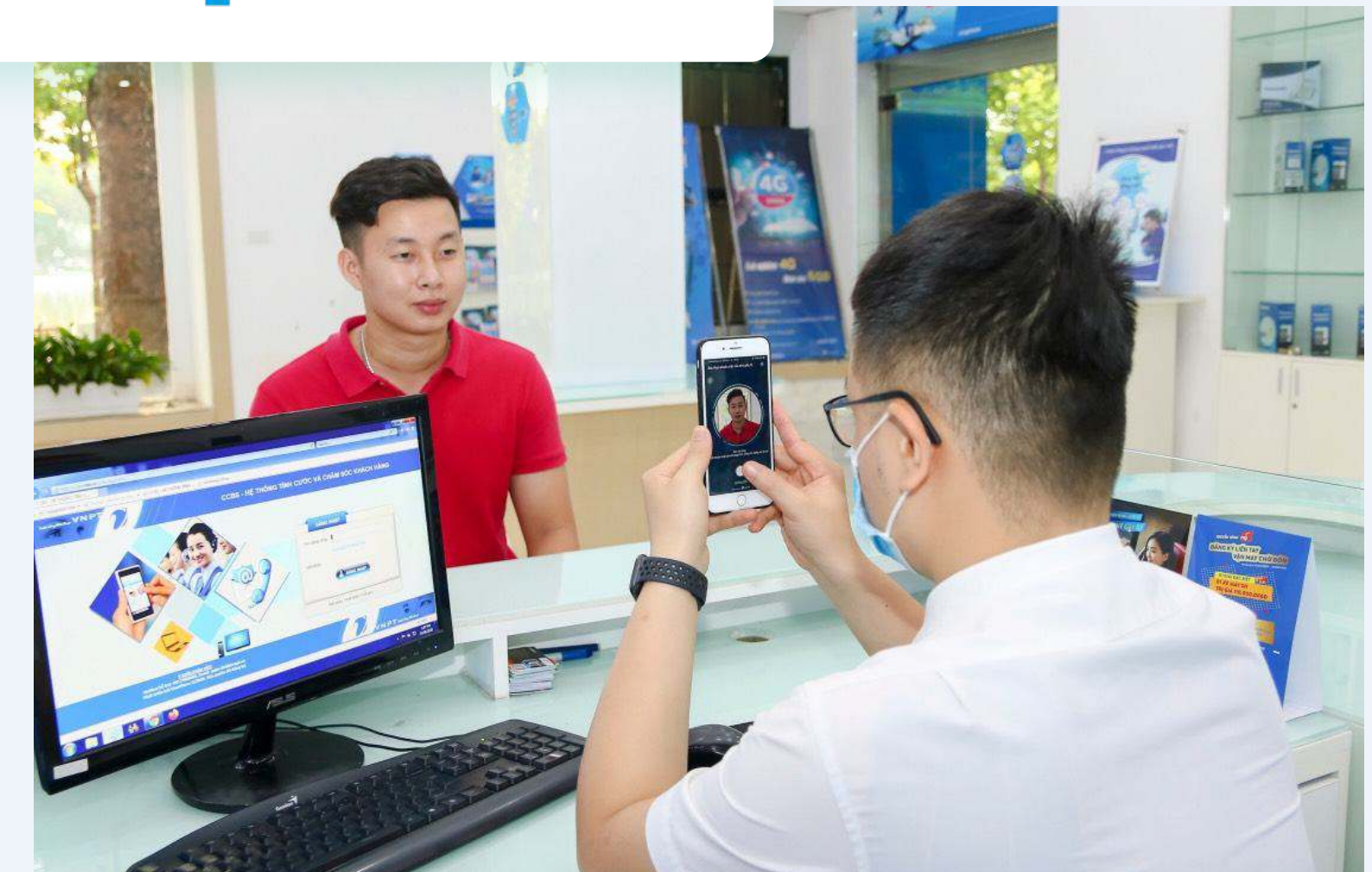
OUR VALUES

With VNPT eKYC, we always want to bring values to meet the expectations of our customers

VNPT AI
DEFINE THE FUTURE

Increase customer experience
Customers can easily make online transactions quickly without having to go to the transaction counter.

Shorten check-in time
It only takes 1 to 2 minutes for authenticated identification instead of 10 to 15 minutes to perform a transaction like before.

Cut-back operating costs
The business's customers are continuously expanding, increasing the efficiency of resources and support time of tellers.
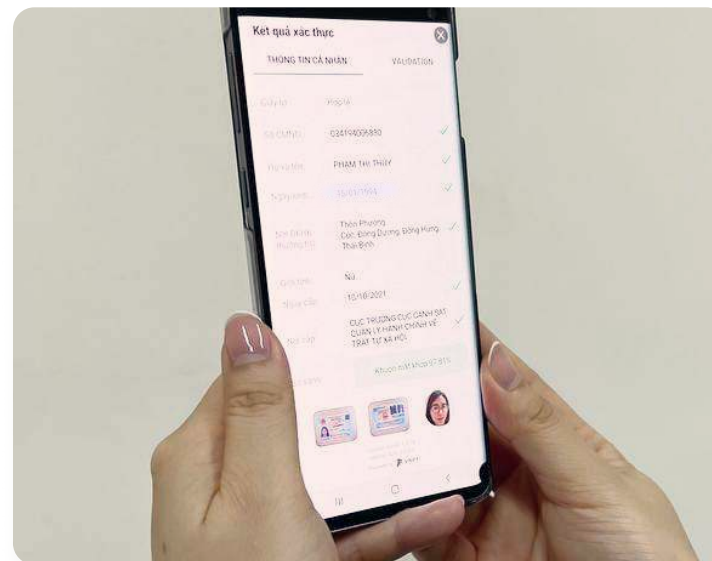
Increase customer experience
Customer transactions are secured to avoid information leakage and minimize cases of fraud.
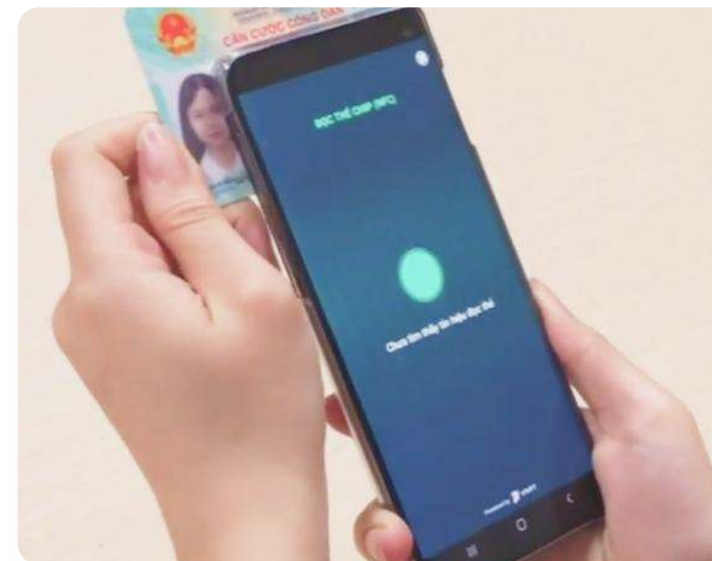
Our Technologies

Liveness Detection Technology

Applying AI technology to detect the reliability of personal documents and portrait; determine photos taken directly or through another device or virtual camera

OCR Technology

Applying AI technology to extract and digitize information on personal documents; detect invalid cases

NFC Technology

Using Near-Field Communications (NFC) to read information on ID cards with chip, which increases accuracy and security
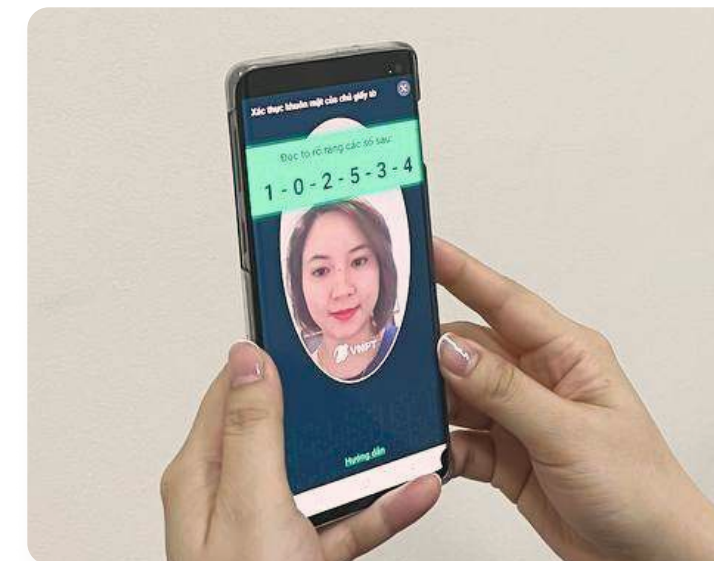
Facial biometrics authentication

Integrated Facial Biometric Recognition System with high accuracy

SDK

Supporting cross-platform from iOS 9.0 and Android 4.2 to higher version with easy and fast integration in just a few hours

OUR VALUES

With VNPT eKYC, we always want to bring value meet business expectations

Provide 02 SDK version

- The experience-optimized version helps you convert more customers thanks to the quick authentication process

- The security-enhanced version saves you effort in your risk prevention efforts

The experience-optimized version

This is the result of a great combination of AI and UX, verifying images with just a single photo. Anyone can operate it easily and quickly
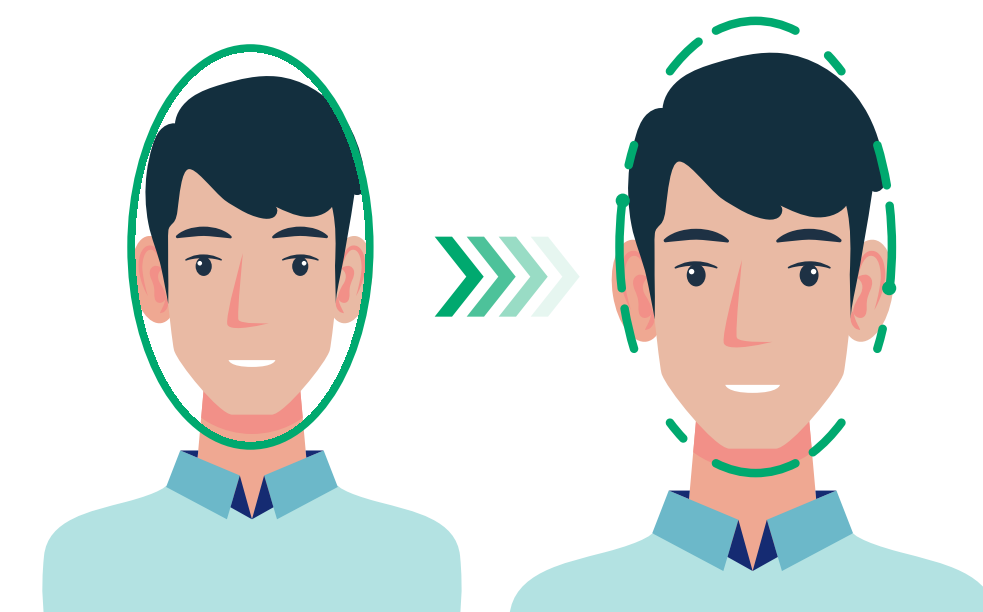
The security-enhanced version

Face authentication is safer and more secure with 3DScan technology, which encodes and detects abnormalities in the process of moving faces into near and far frames, minimizing authentication risks

Personal documents identification and extraction

Identify and extract (OCR) most valid personal documents under current Vietnamese law such as:
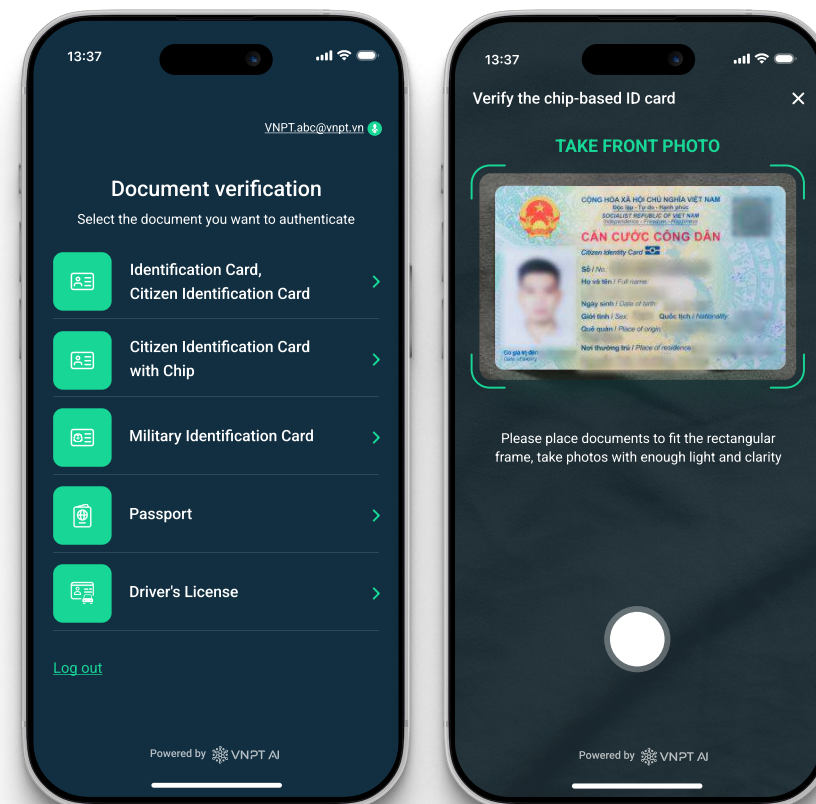
- Citizen identity card (all versions).
- Chip-based citizen ID.
- Military ID card.
- Passport (Vietnamese or foreign).
- Driver license (all versions).
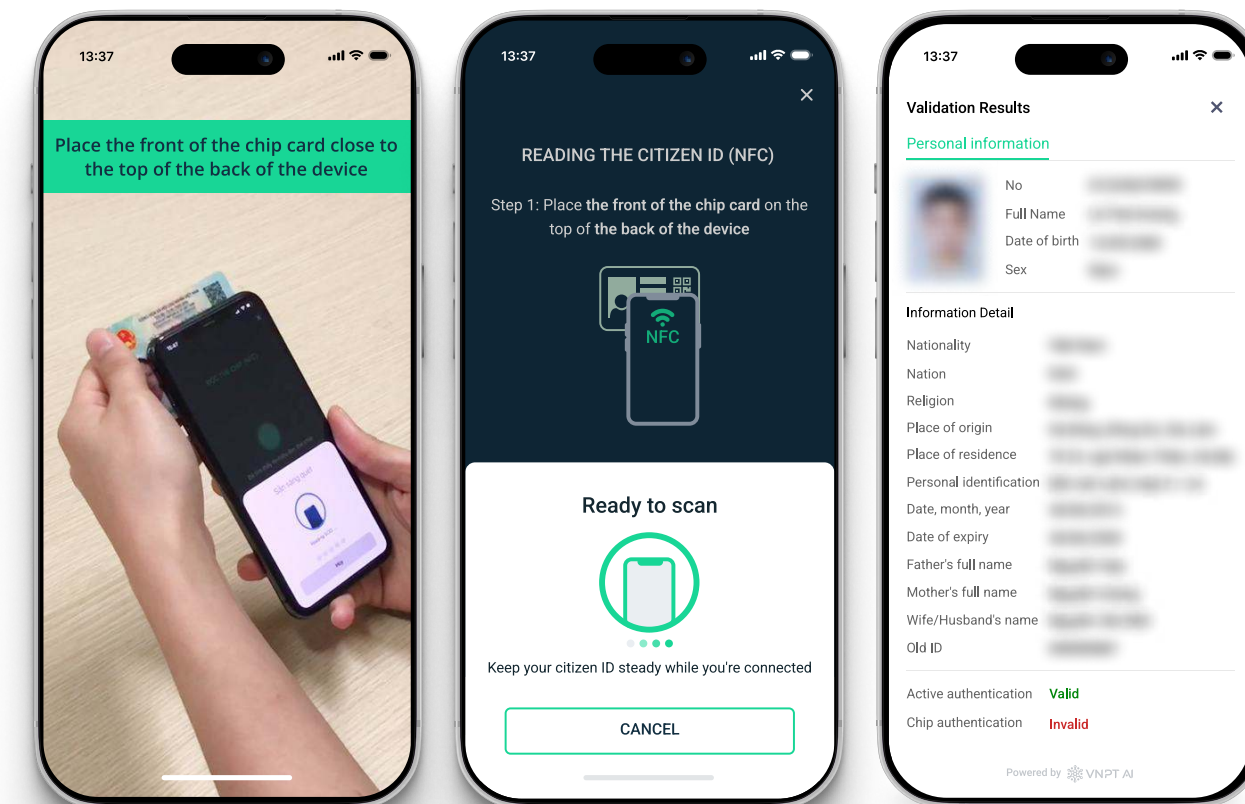
Read information thanks to NFC technology

- Read the chip card of the new CCCD through NFC proximity technology.
- The information is read completely and accurately, minimizing the risk of document falsification compared to authenticating documents by image.

EXCEPTIONAL FEATURES

The AI Assistant digitalizes every touch point on all mobile devices and computers

VNPT AI · DEFINE THE FUTURE
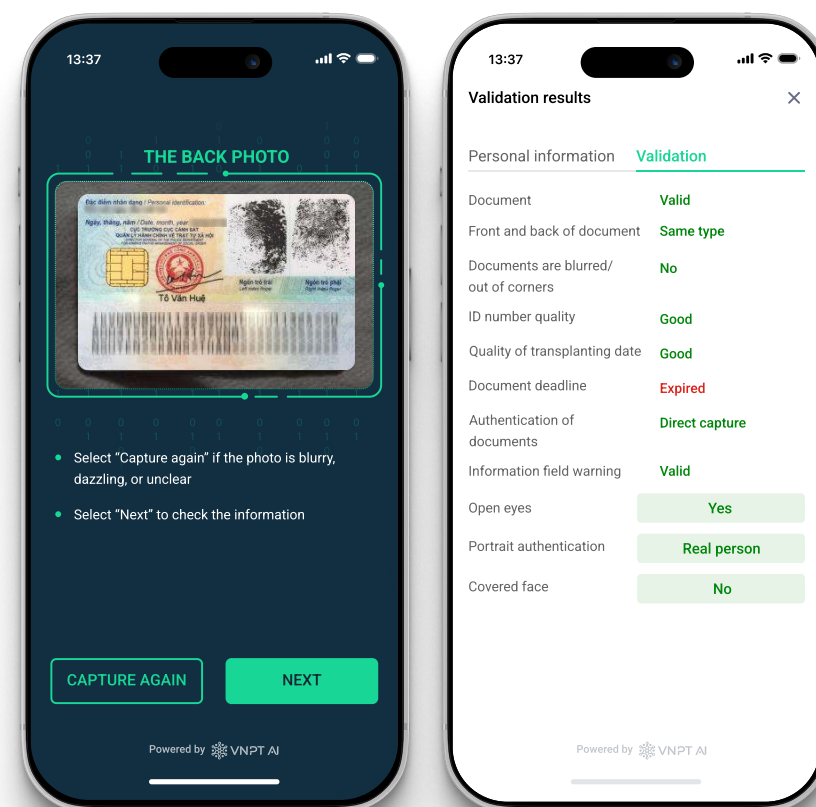
Detecting unsatisfactory personal documents

Guaranteed to detect most cases of documents that are not eligible for information registration:

- ✅ Detect documents that are blurred, damaged, corners cut, erased, etc,...
- ✅ Detection of documents with portrait photos or expired documents.
- ✅ Detect fake documents (in case the input images are photocopied, scanned ID cards, etc,...
- ✅ Check the logic of information on documents to detect abnormalities.
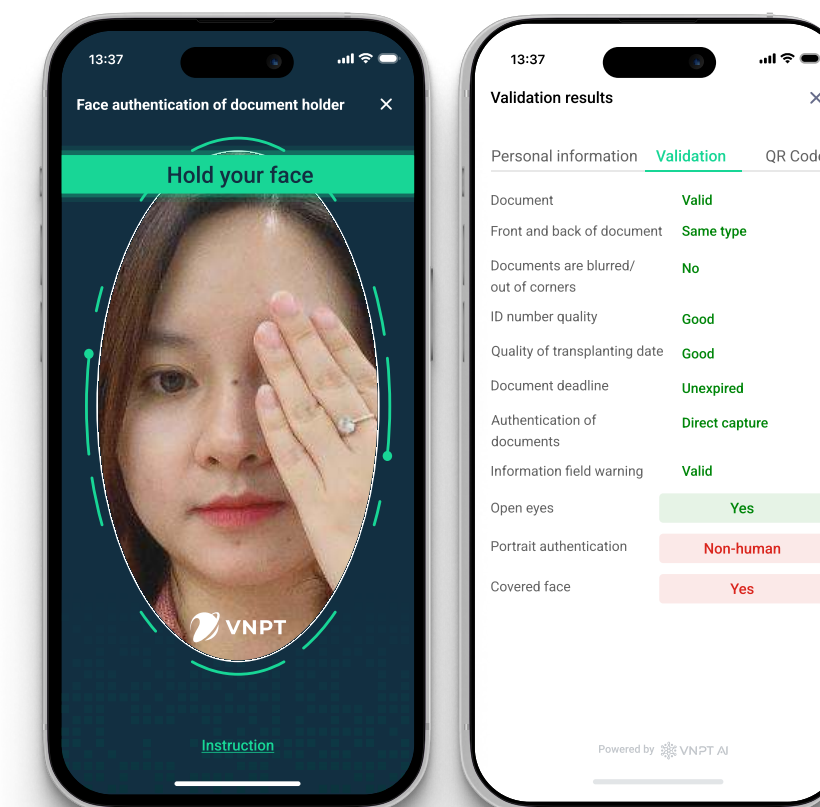
Portrait authentication

Immediately detect fake portraits and give instant warning:

- ✅ Only confirm customers' selfie photos in real time.
- ✅ Authenticate a person's signs of life and reject fake faces (printed photos, photos displayed on electronic devices, 2D/ 3D masks and non-human faces).
- ✅ Detect faces that fail to meet minimum requirements, obscured faces or faces with closed eyes.

EXCEPTIONAL FEATURES

The AI Assistant digitalizes every touch point on all mobile devices and computers
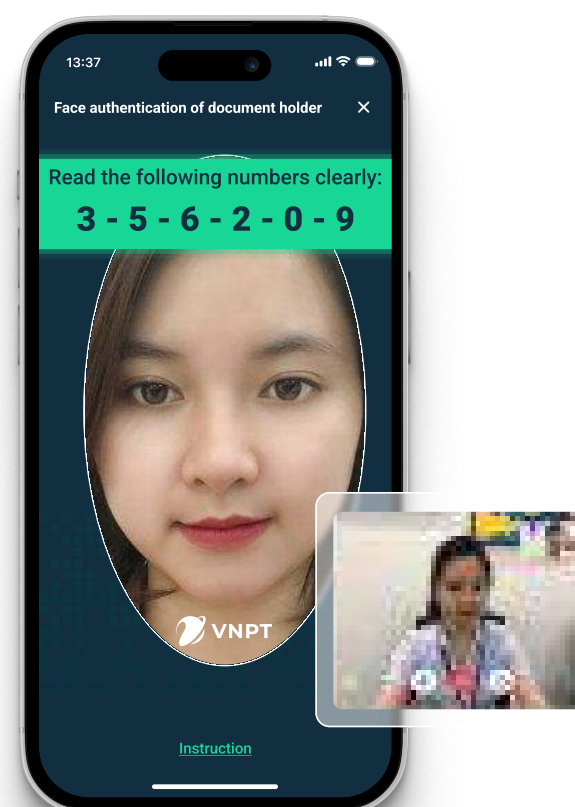
Enforced authentication via video and voice

Detect cases of deliberately spoofing faces, especially cases of using fake faces (photos, videos taken from devices, masks...) through video calls, face-authentication videos and voice authentication by random number sequences.
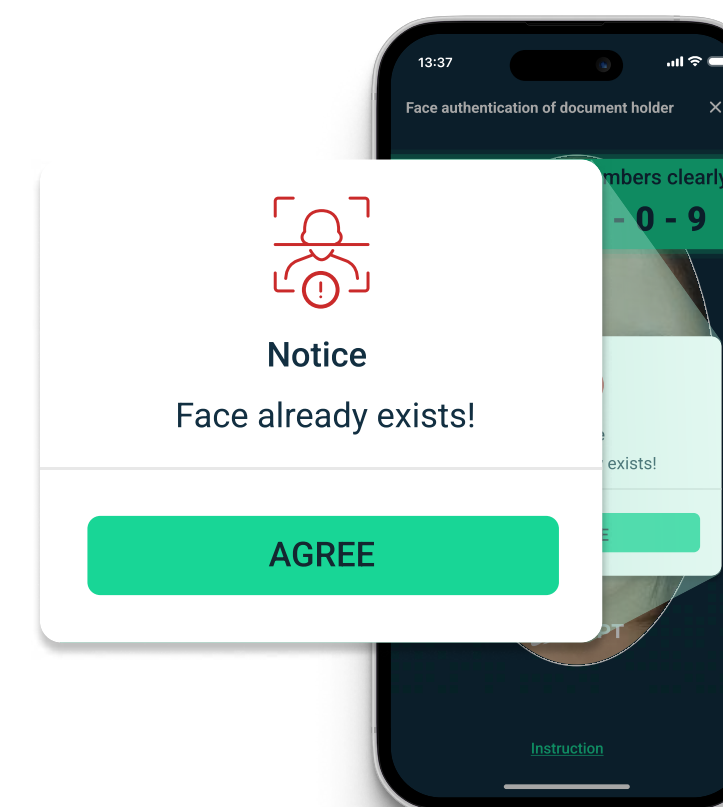
Data checking and cross-validation

Build an identity database that helps businesses check and cross-validate data to maximize counterfeit detection as well as ensure user safety.

EXCEPTIONAL FEATURES

The AI Assistant digitalizes every touch point on all mobile devices and computers

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DEFINE THE FUTURE

Verify chip-based citizenship with RAR-C06

Detecting 100% of cases of forgery of chip ID card information because the data on the chip card is verified with the RAR-C06 population and citizen identification database of the Ministry of Public Security.

Example of Business Process use VNPT eKYC IDCheck
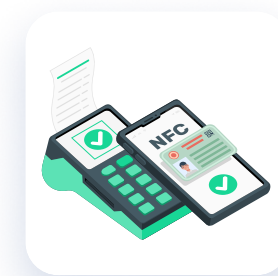
Step 1
Put the chip-based citizen ID into the chip card reader

Insert the chip-embedded citizen identification card into an app or specialized device that reads chip card information
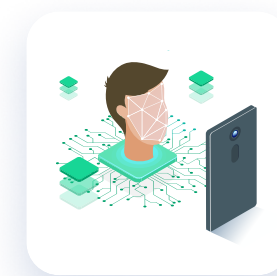
Step 2
Validate the portrait of the owner

Authenticate portrait and face in chip-embedded card, in biometric database

Step 3
Validate chip-based citizen ID with the Ministry of Public Security

The information in the chip-embedded Citizen Identification Card is authenticated with RAR-C06 of the Ministry of Public Security
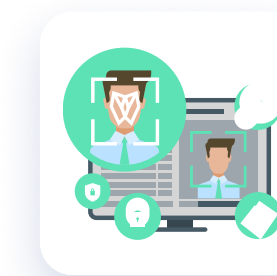
Step 4
Send validation results to the integrated application

Validation results are sent to the eKYC integrated application, from there to the next transaction for the customer

EXCEPTIONAL FEATURES

The AI Assistant digitalizes every touch point on all mobile devices and computers

VNPT AI
DEFINE THE FUTURE
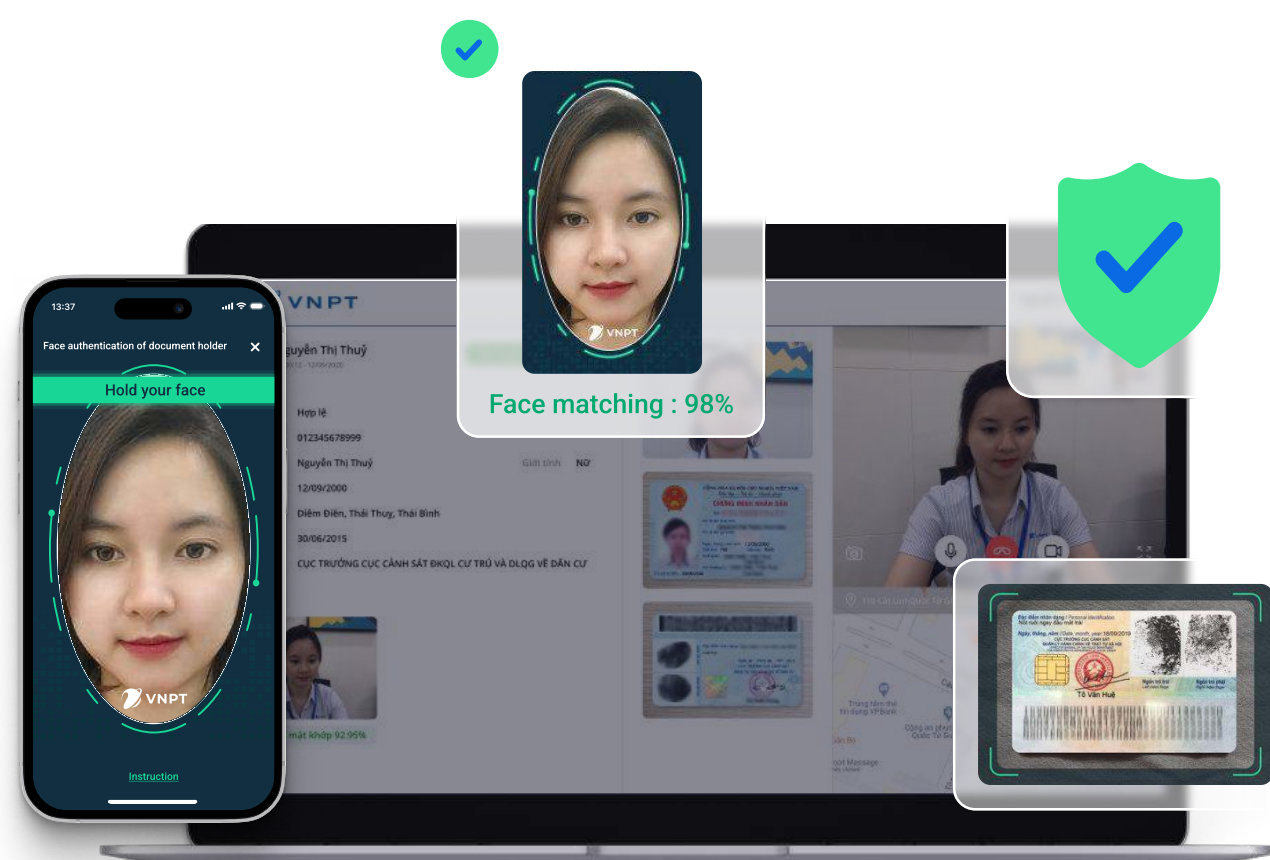
3-level security to avoid information leakage and theft

Integrated versions are built on the most advanced three-level security model, minimizing high-tech phishing tricks to infiltrate and steal information.
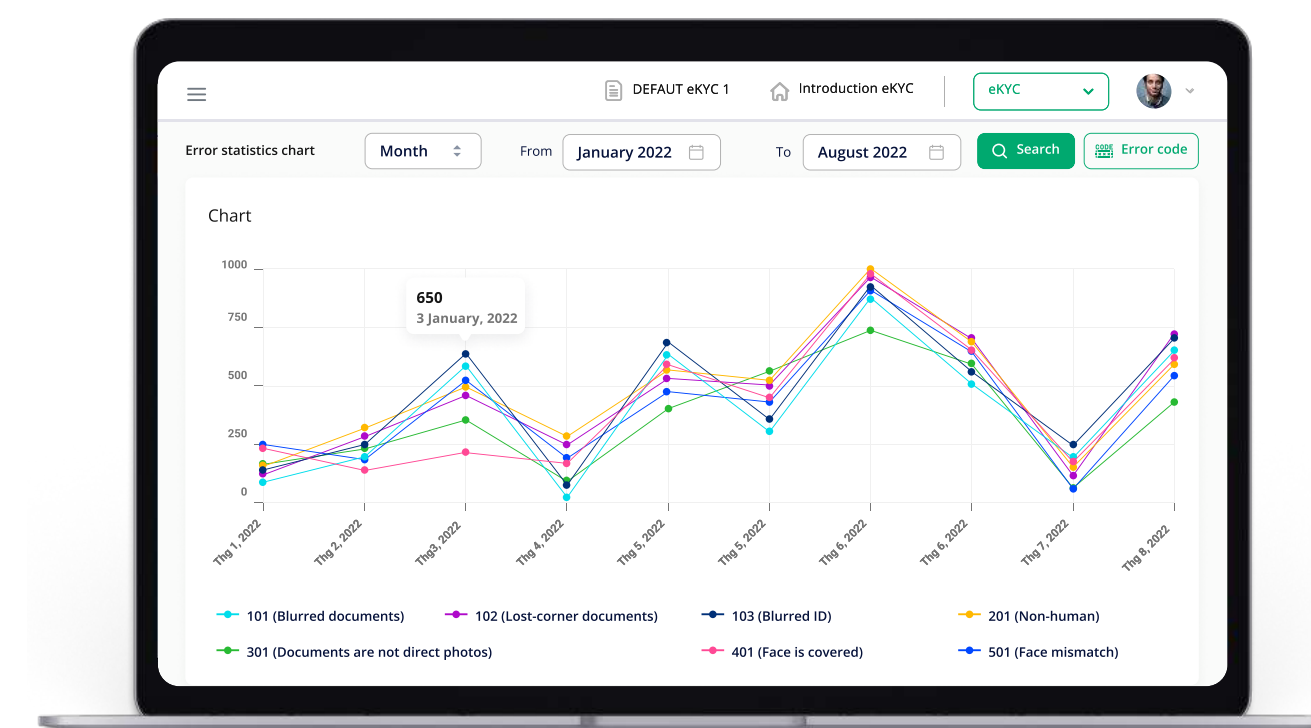
Providing error monitoring tools to promptly react to abnormal incidents

Provide users with powerful tools to statistics and monitor errors according to the selected timeframe, which helps to quickly detect abnormalities and make decisions to prevent or handle them.

WHY CHOOSE US

The leading information technology provider in Vietnam

VNPT is the leading ICT service provider in Vietnam with an extensive network and infrastructure; is an enterprise providing digital solutions based on world-class quality AI technology, highly meeting the digital transformation needs of the Government and businesses.

55
Top 55 Telecommunication Brands worldwide

10
Top 10 Vietnamese IT enterprises

5000+
Talented Information Technology engineer

100+
Experienced AI experts

VNPT eKYC solution is honored to win many prestigious awards

The 3rd prize
Vietnamese Talent

Chia Khoa Vang

Asia Communication Awards

Gold award **Cyber Security Excellence Awards**

Bronze Stevie
Stevie Awards

Top 10 World category
KiOSK-FRVT 1:N

Make in Viet Nam

Reached ISO 30107-3 (PAD) international standards assessed by **iBeta (FIDO Alliance)**

Sao Khue

Top 10
IT enterprises in 2020

Gold award
Globee IT World Awards

OUR CUSTOMERS

We are trusted by top partners

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vnFace vnSocial Smart Vision Smart Reader Smart Bot Smart Voice Smart UX VNPT eKYC vnCallbot

Thank you!

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Email
vnptai@vnpt.vn

Website
https://vnptai.io

VNPT eKYC - Electronic Identity Platform

Powered by VNPT AI