

# P R E S E N T ID

AI-driven Remote & Digital Identity Verification(KYC) with Dynamic Face liveness & Voice biometrics & ID OCR

P R E S E N T ID

Dynamic Face Liveness Detection



P R E S E N T ID  
WWW.PRESENTID.COM



# Digital Identity Verification

Digital identity verification is particularly important these days because many transactions take place remotely, and identity theft and cyber-attacks have increased during the global pandemic. PresentID provides a seamless remote user ID verification solution through the combination of technologies developed in-house including ID Card OCR capture+ Face liveness detection+voice verification+Eye tracking to ensure the highest levels of accuracy in ID verification and in detecting fraud.

**200K**  
API Calls



**30B+**  
Market valuation by 2024



**20%**  
grow in demand for remote ID verification system





# PRESENT ID



## Digital Identity Verification

You may forget your password, your badges or your passports may be compromised but your biometric identifiers will be with you at all times

The digital identity verification market is set to surpass \$17B by 2026.

You may forget your password, your badges or your passports may be compromised but your biometric identifiers will be with you at all times

The digital identity verification market is set to surpass \$17B by 2026.

One of the problems is about increasing internet crime recently. Identity fraud and cybersecurity breaches to grow by 15% over the next five years reaching \$10.5 trillion annually by 2025, up from \$3 trillion in 2015.

In 2020, complaints of suspect internet crime surged by 61%, to 791,790 ranging from personal and corporate data breaches to credit card fraud, phishing and identity theft- cost victims more than \$4.2 billion.

Moreover, The total number of identity verification checks more than doubles from 45 billion in 2021 to 92 billion in 2026. Remote identity proofing has emerged as a necessity for access to services.

A number of fintech firms have renewed their know your customer (KYC)-focused efforts to grow their market share.

PresentID provides a secure, scalable and seamless identity verification service through the built-in house multi-modal biometric technologies including 3D face liveness detection, Photo ID matching, Selfie matching, speaker verification and ID card OCR.

Integration with our SDK is easy. You can integrate it in your web or mobile app in less than 20 Minutes using our document and sample codes for Android, iOS, Web, React,....

Besides the high accuracy, speed is our SDK advantage which you can get a result in less than 1 second.

If you are interested to authenticate your users safely and remotely and have our fully customizable SDK free, send your request Now. We are here to support you.

# Products



## Face Biometric

Dynamic Face Liveness Detection  
Photo ID Matching  
Face Detection  
Face Enroll  
Face Mask Detection  
Face similarity



## Voice Biometric

Voice Verification  
Voice Gender Recognition



## OCR

Credit Card OCR  
Qrcode & Barcode Scanner  
Document Scanner  
MRZ Scanner

# Products



## Voice Biometric

Voice Verification  
Voice Gender Recognition



## Face Biometric

Dynamic Face Liveness Detection  
Photo ID Matching  
Face Detection  
Face Enroll  
Face Mask Detection  
Face similarity



## OCR

Credit Card OCR  
Qrcode & Barcode Scanner  
Document Scanner  
MRZ Scanner



# Dynamic Face Liveness Detection

## PresentID Dynamic Face Liveness Detection

One of the key part of the online identity verification process is Liveness detection.

PresentID Dynamic Face liveness detection can recognize the person in front of the video is real or fake. It can detect if the user is physically present and prevents masks, photos, or video deepfakes to fool the system. We use the convolutional neural network (CNN) deep learning algorithms to detect fraud.

In our solution, there are client and server-side processes. Each side consists of several machine learning algorithms.

The client-side processes are done with our client SDK which has been provided for iOS, Android, and Web. In the client SDK, we check that face should be in the camera all the time of the procedure and if we couldn't find the face in all the frames then the process is stopped. Also, we check the gaze and head pose of the user in each frame.

On the server-side, our Dynamic face anti-spoofing model which is the convolutional model has been trained based on our data. It uses 30 frames in the video and extracts a depth map that is able to detect the depth and is able to detect spoof attacks based on the depth detection. Providing Data for the training models was the main challenge. Our team collects a large dataset from our first attendance app. Also, we have crawled social networks to collect a large video dataset and then clean and create spoof data from them.



### Features

- ✿ 2-5 seconds in low-range smartphones for clients-side and less than 1 second on server-side with at least 8 cores & 2.4GH.
- ✿ CPU based server-side.
- ✿ Verify 3-Dimensionality.
- ✿ Verify identity.
- ✿ Great with glasses, makeup & beards
- ✿ For all modern smart devices & webcams.
- ✿ Support iOS, Android devices.
- ✿ Web client SDK & API.
- ✿ Easy integration with your app.

The gaze model is used to check eye closeness(if the user is asleep or not). Head pose checking is used to prevent the diversity of data. That helps our 3D liveness model to train better and easier. This gaze and pose detection don't complicate the user act, on the other side, it keeps the system safer. Besides that, in the whole procedure, a user should fit his face on an oval. We generate the random oval in the randomness position of the screens. Showing random oval in the random positions on the screen has two advantages. First, it prevents injection.

SDKs are available for iOS, Android, Linux, or Windows



## Photo ID Matching

The other key part of the digital identity verification is matching the Photo of the applicant on ID card or Selfie image with the liveness video.

### Face Biometrics

### Photo id matching

The other key part of the digital identity verification is matching the Photo of the applicant on ID card or Selfie image with the liveness video.

PresentID Photo ID matching(face matching) API/SDK evaluates whether two faces belong to the same person or not. Face verification ensures a one-to-one (1:1) match of a face image captured at the time of onboarding with an image captured from a trusted credential such as a driver's license, or a passport.

We have created a very deep convolutional neural network to extract very high-level features from a face for each person. We have provided a large-scale image database of faces from many sources e.g. web crowdsourcing, our built-in house dataset.

There is a lot of diversity of races in the database. Our model inference time is 115ms on Intel CPU core i7 6700k. Especially in our solution, we save some frames that come from client SDK that is selected based on our own algorithm. This feature makes our matching stronger. Moreover, we save a checksum from a video to check duplicated videos.

Our method has got promising results under large appearance variations e.g. pose, age gaps, skin, glass, makeup, and beard.



### Features

- Less than 1 second.
- Accuracy is %99.76 on the LFW face verification dataset, a very popular benchmark.
- Support IOS, Android, Windows, and Mac devices.
- Detect face photos as small as 50X50 Px
- Easy integration with your app.

#### Rules & Restrictions

- Send data via Base64 or an image URL or an image file.
- Image size should not exceed 8 MB.
- Also, the images should not be larger than 5000 pixels and smaller than 50 pixels.

#### Use Cases

- Access Control
- Onboarding
- Fintech
- Car sharing & Taxi
- Online Brokers
- Health Care
- Dating Apps
- Customer Support

# PRESENT ID

Age: 36  
Gender: Female

# Face Detection

*Face Biometrics*



## Face Detection

PresentID Face Detection API/SDK can detect the face(s) in your image and retrieve some features such as Age, Gender, Landmarks, etc.

### Use Cases

- ✓ Access Control
- ✓ Onboarding
- ✓ Fintech
- ✓ Car sharing & Taxi
- ✓ Online Brokers
- ✓ Health Care
- ✓ Dating Apps
- ✓ Customer Support

### Rules & Restrictions

- ✓ Send data via Base64 or an image URL or an image file.
- ✓ Image size should not exceed 8 MB.
- ✓ Also, the images should not be larger than 5000 pixels and smaller than 50 pixels.



## Features

- ⚙ Recall rate at 100 FP on Fddb: 87.3
- ⚙ Detect faces even in very low-resolution images.
- ⚙ Detect all small and large faces.
- ⚙ High-precision detection of size; pitch, roll, yaw, and 14-point key landmarks.
- ⚙ Appropriate response time even with low computational resources.
- ⚙ Robust detection of faces with rotation, glasses, etc.
- ⚙ Support IOS, Android, Windows and Mac devices.
- ⚙ Detect faces from video feed.
- ⚙ Detect face photos as small as 50X50 Px
- ⚙ Easy integration with your app.





**PRESENT ID**

**Face  
Biometrics**

# Face Similarity

*PresentID Face similarity API/SDK can match a face in your image to the most similar images in your database.*

## **Use Cases**

- ✓ Fun apps

## **Rules & Restrictions**

- ✓ Send data via Base64 or an image URL or an image file.
- ✓ Image size should not exceed 8 MB.
- ✓ Also, the images should not be larger than 5000 pixels and smaller than 50 pixels.



## **Features**

- ⚙ 0.00007 FAR, 0.08 FRR.
- ⚙ Less than 1 second.
- ⚙ High-precision detection of size; pitch, roll, yaw, and 14-point key.
- ⚙ appropriate response time even with low computational resources.
- ⚙ Robust detection of faces with rotation, glasses, etc.
- ⚙ Identifies the image that is most similar.
- ⚙ Support IOS, Android, Windows and Mac devices.
- ⚙ Easy integration with your app.



## Face Mask Detection

Face Biometrics

## Face Mask Detection

PresentID Face mask detection API/SDK can detect whether a person is wearing a mask. This service can recognize all the faces in the image and identify whether people have masks or not!

### Rules & Restrictions

- ✓ Send data via base64 or an image URL or an image file.
- ✓ Image size should not exceed 8 MB.
- ✓ Also, the images should not be larger than 5000 pixels and smaller than 50 pixels.

### Use Cases

- ✓ Access Control



### Features

- ⚙️ Recall rate on Fddb:70.6, Classification Accuracy: 93.7.
- ⚙️ Less than 300 milliseconds processing time.
- ⚙️ Detect all small and large faces.
- ⚙️ High-precision detection of size; pitch, roll, yaw, and 14-point key landmarks.
- ⚙️ Appropriate response time even with low computational resources.
- ⚙️ Robust detection of faces with rotation, glasses, etc.
- ⚙️ Region of interest detection.
- ⚙️ Support IOS, Android, Windows, and Mac devices.
- ⚙️ Easy integration with your app.



# PRESENT ID

## Face Enroll

Face Biometrics



## Face Enroll

PresentID Face Enroll API/SDK allows you to register your users for future verification.

### Use Cases

- ✓ Access Control
- ✓ Onboarding

### Rules & Restrictions

- ✓ Send data via Base64 or an image URL or an image file.



### Features

- ⚙ Accuracy is %99.76 on the LFW face verification dataset, a very popular benchmark.
- ⚙ Less than 1500 milliseconds processing time.
- ⚙ Support IOS, Android, Windows and Mac devices.
- ⚙ Easy integration with your app.

# Products



## Face Biometric

Dynamic Face Liveness Detection  
Photo ID Matching  
Face Detection  
Face Enroll  
Face Mask Detection  
Face similarity



## Voice Biometric

Voice Verification  
Voice Gender Recognition



## OCR

Credit Card OCR  
Qrcode & Barcode Scanner  
Document Scanner  
MRZ Scanner





## Voice Verification

## Voice Biometrics

### Voice Verification

We provide a multi-modal digital identity verification through face and voice biometrics. One layer of security that can add more accuracy on detecting fraud is the voice(speaker) verification.

PresentID Voice verification API/SDK checks whether two voices belong to the same person or not. This capability is potentially useful in call centers.

#### Rules & Restrictions

- ✓ Send data via Base64 or a voice URL or voice file.
- ✓ The voice must be between three seconds and one minute.

#### Use Cases

- ✓ Call center

We have proposed a deep learning-based method for speaker verification. Our team worked on this project for more than 1 year and the accuracy has passed over benchmarks such as the accuracy of the paper by Andrew Zisserman Group at Oxford University. Our model is robust to the environment and virtual noises.



#### Features

- ✿ Accuracy over 90%.
- ✿ Less than 1 second processing time.
- ✿ No need for GPU.
- ✿ Language & text-independent.
- ✿ Easy integration with your app.
- ✿ Support IOS, Android, Windows, and Mac devices.
- ✿ Easy integration with your app.

**PRESENT ID**

# Voice Gender Recognition

## Voice Biometrics

### Voice Gender Recognition

PresentID Voice gender recognition API/SDK can recognize the gender of the speaker.

#### Rules & Restrictions

- ✔ Send data via Base64 or a voice URL or voice file.
- ✔ The voice must be between three seconds and one minute.
- ✔ The voices must not exceed 5 MB.
- ✔ Supported file types: WAV, MP3, M4A, FLAC, AAC, OGG.

#### Use Cases

- ✔ Call center



#### Features

- ⚙ Accuracy over 96%.
- ⚙ Less than 1 second processing time.
- ⚙ No need for GPU.
- ⚙ Language & text-independent.
- ⚙ Support IOS, Android, Windows, and Mac devices.
- ⚙ Easy integration with your app.

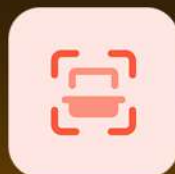


# Products



## Face Biometric

Dynamic Face Liveness Detection  
Photo ID Matching  
Face Detection  
Face Enroll  
Face Mask Detection  
Face similarity



## OCR

Credit Card OCR  
Qrcode & Barcode Scanner  
Document Scanner  
MRZ Scanner



## Voice Biometric

Voice Verification  
Voice Gender Recognition

## Credit card ocr



## Credit Card OCR

PresentID Credit Card OCR can extract data from all types of Credit cards.

### Use Cases

- ✓ Digital banking app
- ✓ Online Payment apps
- ✓ NeoBanking apps

### Rules & Restrictions

- ✓ Only get the best focus



### Features

- ✿ CPU core i7, about 10 milliseconds per a char image.
- ✿ 0.8% characters error rate (CER).
- ✿ It extracts the card number (16 digits) and the expiration date from credit and debit cards.
- ✿ It's prepared for Android and IOS smartphones.
- ✿ Easy integration with your app using Objective-C, Swift, C, C++, Java along with a rich set of code samples on how to use our SDK with different programming languages for each operating system.



**PRESENT ID**

# QRCode & Barcode Scanner

**OCR(ID & Credit Card)**

## Qr Code & Bar Code Scanner

PresentID QRCode reader & Barcode scanner API/SDK can scan both QR code and barcode.

### Use Cases

- ✓ Tracking products
- ✓ Art and pop culture
- ✓ Tracking food intake
- ✓ Games
- ✓ Advertising

### Rules & Restrictions

- ✓ Send data via Base64 or an image URL or an image file.
- ✓ Image size should not exceed 8 MB.
- ✓ Also, the images should not be larger than 5000 pixels and smaller than 50 pixels.



- ⚙ Accuracy 100%.
- ⚙ Less than 1.5 milliseconds.
- ⚙ Types of QRcodes such as contacts, plain text, links, events, etc.
- ⚙ Compatible with most Common barcode standards such as:
  - Code 93 • Code 128 • PDF 417 • Data Matrix • EAN-8 • UPC-E • Codabar, etc.
- ⚙ Support IOS, Android, Windows and Mac devices.
- ⚙ Easy integration with your app.

# PRESENT ID

## Document Scanner

*OCR(ID & Credit Card)*



### Document Scanner

PresentID Document scanner API/SDK extracts and localizes document images, accurately handles various image distortions

#### Use Cases

- ✓ To create PDF files and notes and books
- ✓ Ease of separating text in images.

#### Rules & Restrictions

- ✓ Send data via Base64 or an image URL or an image file.
- ✓ Image size should not exceed 8 MB.
- ✓ Also, the images should not be larger than 5000 pixels and smaller than 50 pixels.



### Features

- ⚙ Less than 1.5 seconds on CPU core i7.
- ⚙ high accuracy on the image has been captured with well-focused on the document
- ⚙ Support IOS, Android, Windows and Mac devices.
- ⚙ Easy integration with your app.



# MRZ Scanner

**PRESENT ID**

**OCR  
(ID & Credit Card)**

## MRZ Scanner

PresentID MRZ Scanner API/SDK localizes and recognizes Machine Readable Zone / Travel Documents (MRZ / MRTD) from a single input image.

### Use Cases

- ✓ Digital banking app
- ✓ Online Payment apps
- ✓ NeoBanking apps

### Rules & Restrictions

- ✓ Send data via Base64 or an image URL or an image file.
- ✓ Image size should not exceed 8 MB.
- ✓ Also, the images should not be larger than 5000 pixels and smaller than 50 pixels.



### Features

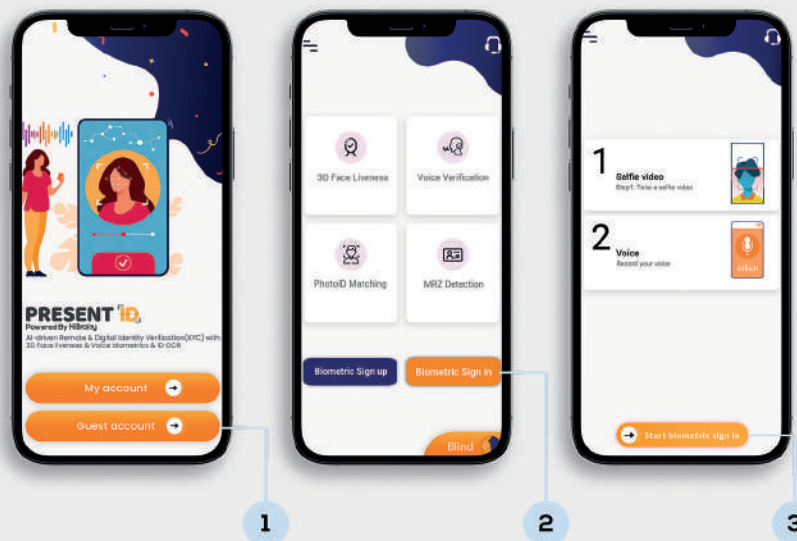
- ⚙ No need for hand-craft cropping or region selection in image capturing High accuracy in cases that MRZ lines are small, far away, blurred, partially occluded, skewed or slanted.
- ⚙ High accuracy in states that MRZ lines are small, far away, blurred, partially occluded, skewed or slanted.
- ⚙ Support all MRZ types (Travel Documents 1/2/3, MRVA, MRVB...)
- ⚙ The font, content, shape or country less than 1 second response time on a server with a low computational resource (for example: with Core i7-6700 Support IOS, Android, Windows and Mac devices.
- ⚙ Support IOS, Android, Windows and Mac devices.
- ⚙ Easy integration with your app.

# PRESENT ID

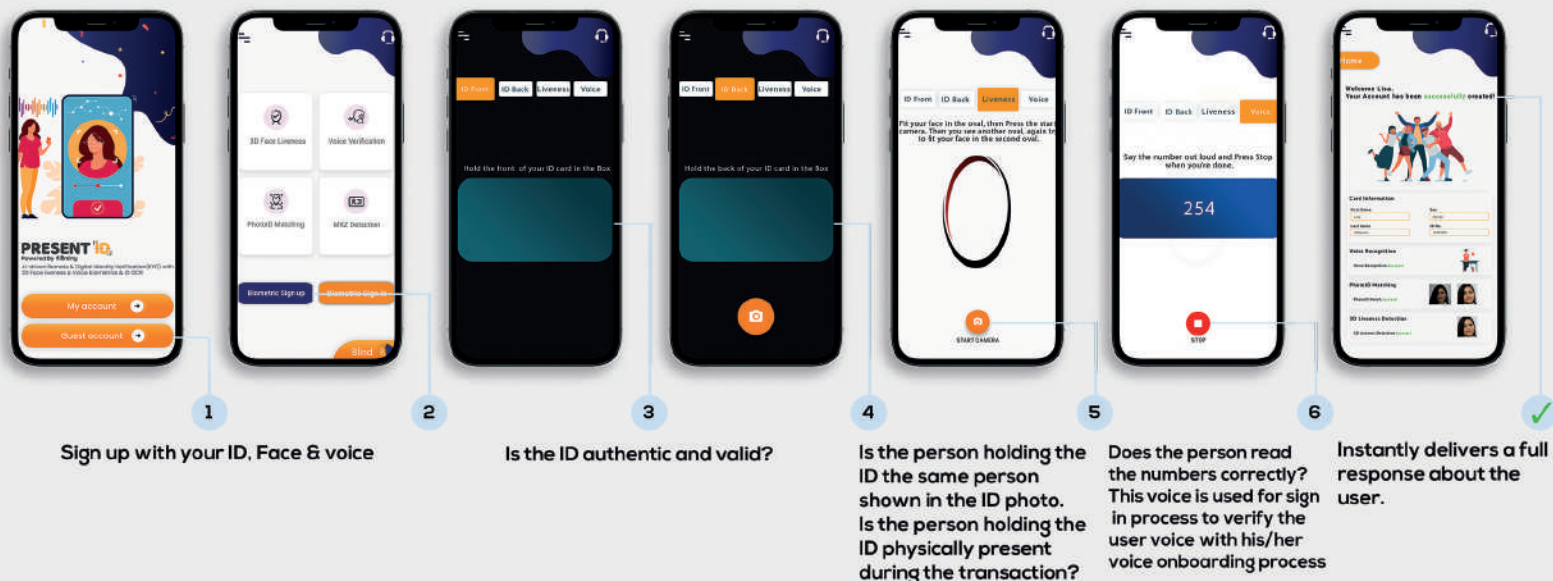
## Biometric Authentication

Establishing trusted identities is to enroll the identity and verify its authenticity. We provide the workflow process for identity enrollment and for registering the applicant's biometric verifierssss Flyer

### Biometric Signin



### Biometric Signup





**PRESENT ID**

# PresentID SDKs



Dynamic Face Liveness Detection



Face Enroll



Photo ID Matching



ID Card OCR



Selfie Matching



MRZ Scanner



Profile Pic Matching



Credit Card OCR

# PresentID Web SDK



## Dynamic Face Liveness Detection

PresentID Dynamic Face liveness detection can recognize the person in front of the video is real or fake.



## Photo ID Matching

PresentID Photo ID matching(face matching) API evaluates whether two faces belong to the same person or not.



## Face Matching

PresentID Selfie matching compares the selfie image with the liveness and says that they belong to the same person or not.



## Profile Pic Matching

PresentID Profile pic matching compares the profile image with the liveness and says that they belong to the same person or not.



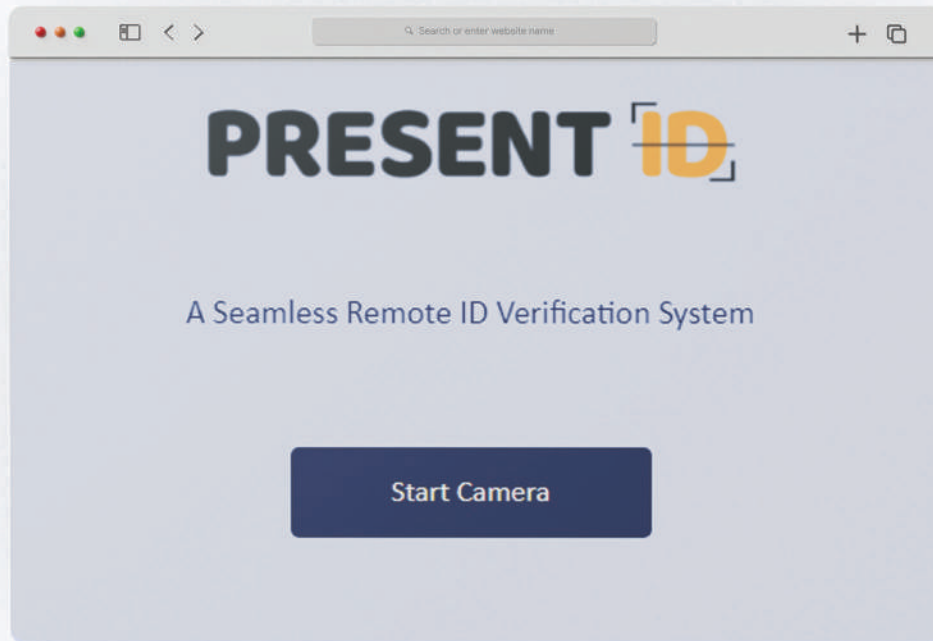
## MRZ Scanner

PresentID MRZ Scanner API localizes and recognizes Machine Readable Zone / Travel Documents (MRZ / MRTD) from a single input image.

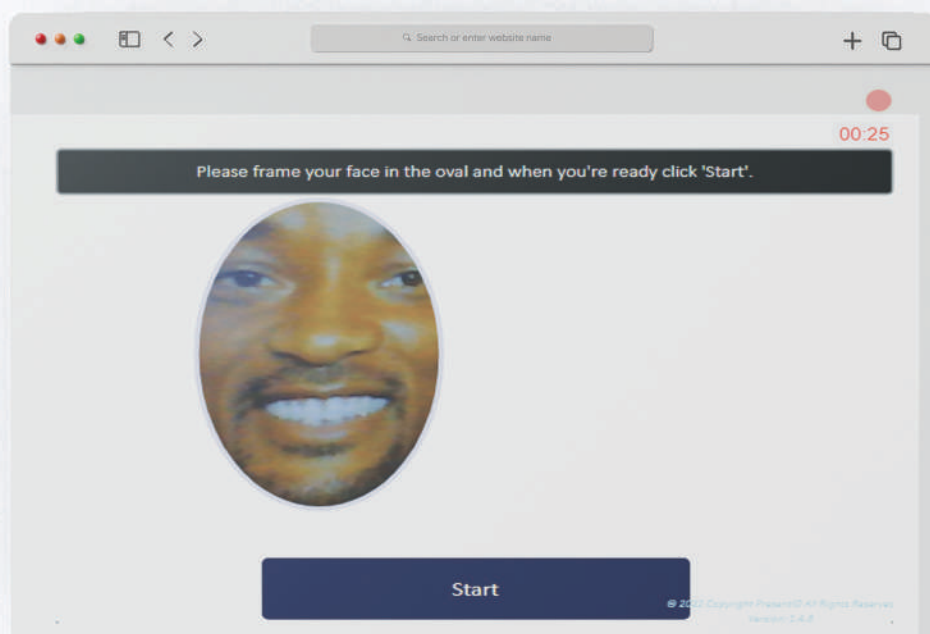


# Dynamic Face Liveness Detection Web SDK

1. Press “Start Camera”

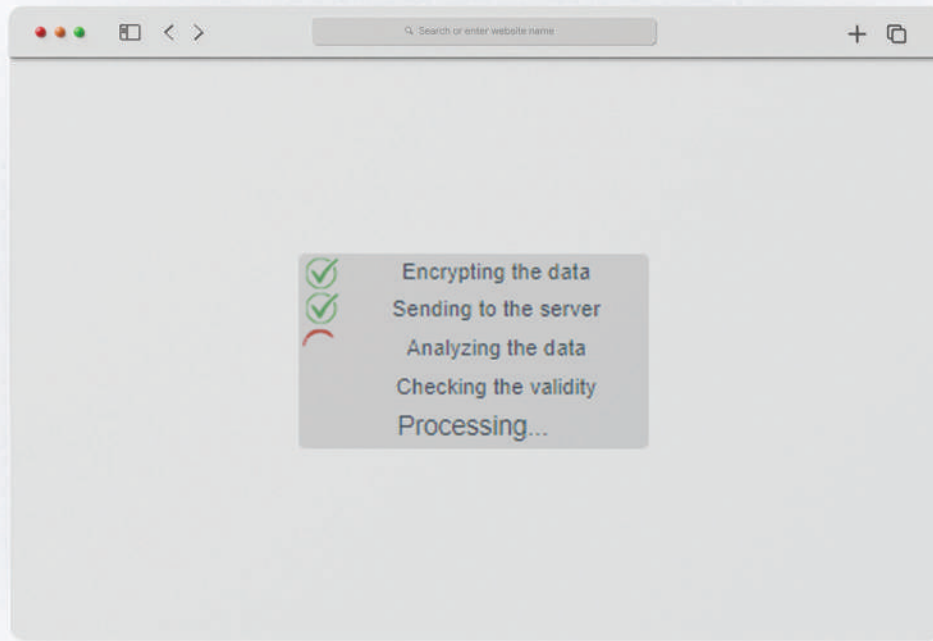


2. Frame your face in the oval and press “start”

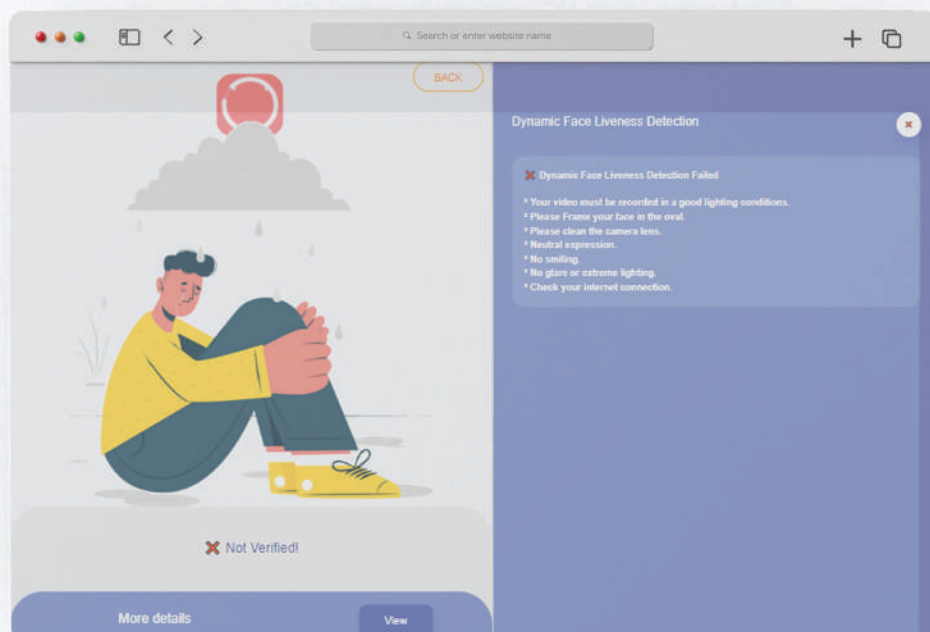


# Dynamic Face Liveness Detection Web SDK

## 3.Processing



## 4.Verify Result

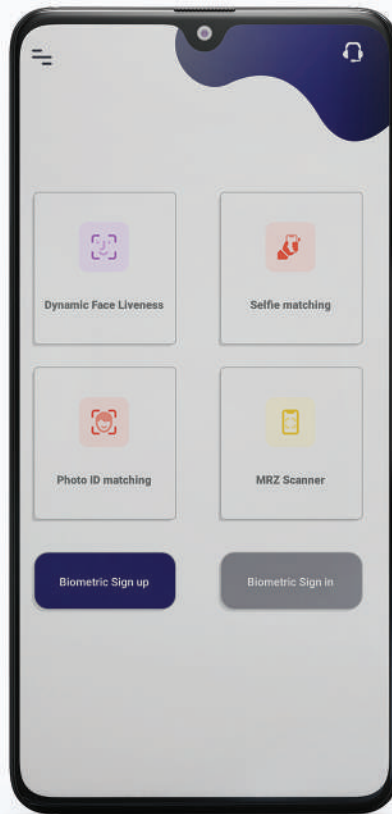




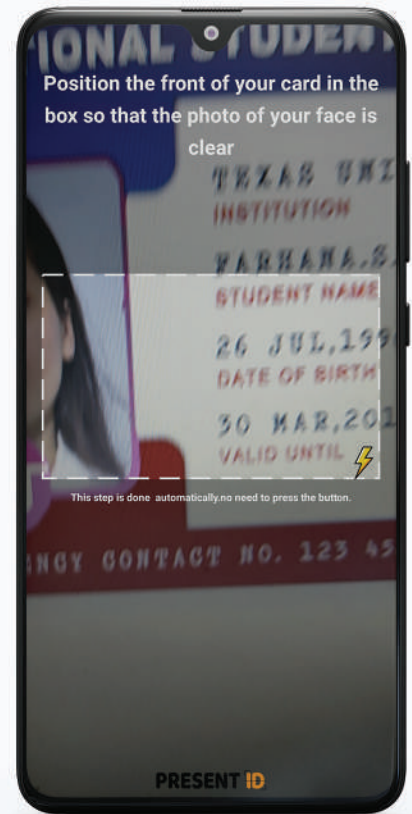
# Biometric Signup Android SDK



1. Press "Continue"



2. Press "Biometric Sign Up"



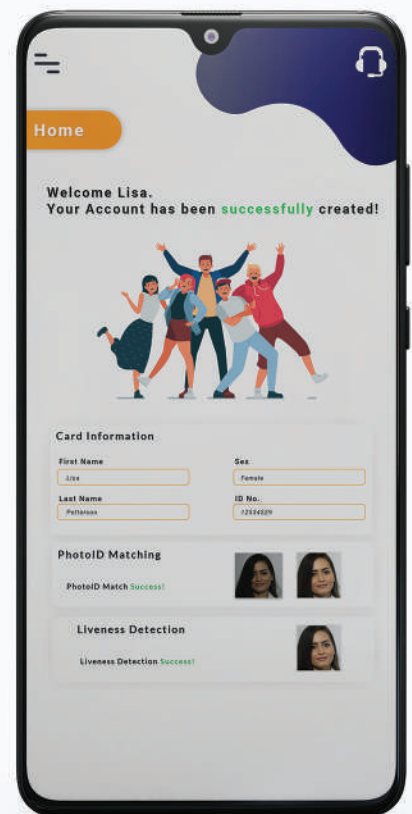
4. Position the front of the card in the box so that the photo of your face is clear



5. Position the MRZ in the box and press the button when the image is clear and focused.



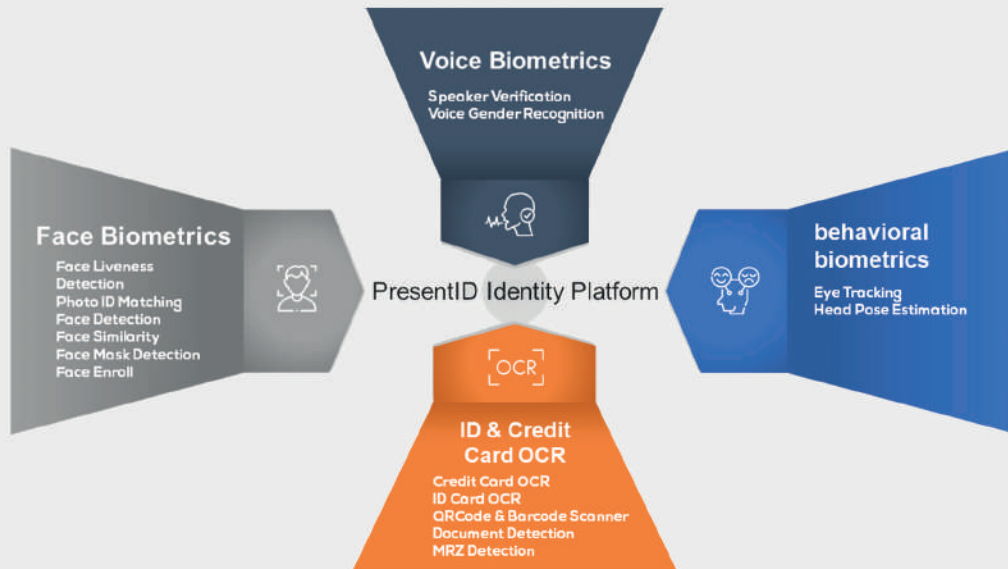
6. Hold your face in the oval that check liveness.



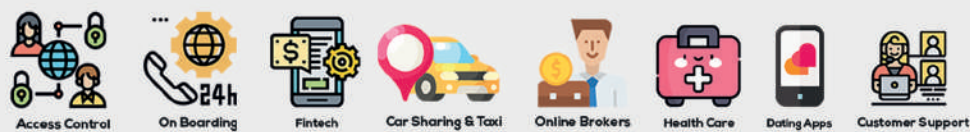
7. Create Account and View information

# PRESENT ID

## ID Verification Technologies



## Use Cases



## Integration With PresentID SDKs is Easy

### Web-client-side SDKs



### Mobile-client-side SDKs





# About us



PresentID is a Deeptech cybersecurity company that provides an AI-based multimodal biometric ID verification. Our platform includes Dynamic face liveness detection, PhotoID matching, MRZ scanner, ID card OCR, and voice verification to provide a highly secure, scalable, and easy-to-use solution. All services are accessible through well-documented APIs and SDKs.

PresentID has pioneered novel methods for securely and conveniently combining biometric and identity verification capabilities across multiple channels in large-scale deployments that span payments verification, digital banking, car sharing, dating apps, digital onboarding processes, insurance services, telecommunication, and border security.

PresentID has pioneered novel methods for securely and conveniently combining biometric and identity verification capabilities across multiple channels in large-scale deployments that span payments verification, digital banking, car sharing, dating apps, digital onboarding processes, insurance services, telecommunication, and border security.

- ✓ Simplified integration, deploys swiftly
- ✓ Identity enrolment takes just seconds
- ✓ Multi-modal Biometric accuracy & assurance
- ✓ Unlimited identity verifications after enrolment
- ✓ Competitive total cost of ownership and quickest ROI

## Our Supporters



STATION F



[www.PresentID.com](http://www.PresentID.com)  
[mysupport@PresentID.com](mailto:mysupport@PresentID.com)

Villejuif Office | 67, Rue Jean Jaures, 94800 Villejuif  
Paris Office | 5, parvis Alan-Turing, 75013 Paris