KYC-procedures as a service

Know Your Customer (KYC) is a process by which a company verifies the identity of its customers in order to ensure their legitimacy and comply with anti-money laundering and anti-terrorist financing regulations. The aim of this project is to implement advanced KYC procedures, including automatic data scanning of various identity documents, manual facial verification and the use of Oauth 2.0, in order to guarantee customer authenticity and strengthen security measures.

Introduction

When it comes to collecting and verifying customer identification information, the manual process can be tedious and time-consuming. Not only does this result in delays in processing requests, but it can also lead to high costs. However, there is a promising solution in this field: automated KYC service.

By leveraging automatic document reading technology and facial comparison, this automated service offers the potential to significantly enhance the efficiency of the KYC process while reducing associated costs. By automating the collection and verification of information, this system speeds up request processing and minimizes human errors.

Through this automated approach, customers can electronically submit their identification documents, thereby avoiding the hassles of manual processes. The documents are then analyzed using sophisticated algorithms capable of recognizing and extracting relevant information. Additionally, facial comparison technology allows for document authenticity verification and ensures customer identity..

Goal

The objective of this Bachelor thesis is to propose a service that allows Know Your Customer pro-cedures, to provide open-source code and good documentation.

This project had to integrate the following functionalities, automatic recognition of an ID card or passport, manual facial verification and the OAuth2 standard to allow a website or an application to access the resources hosted by my service.

The project must also offer a user-friendly and intuitive web interface to facilitate user navigation. In addition, it must include an administration function for verifying the information provided by customers.
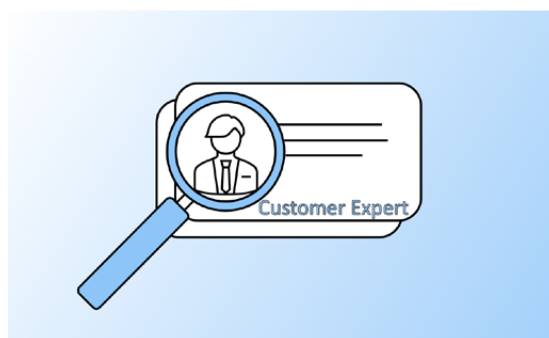
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Customer Expert

Customer Expert consists of the following elements: a login system that allows the user to access the service, a double authentication process with email verification.

Once logged in, the user is prompted to take a photo of the back of their ID card or passport, from which the information is extracted using MRZ technology. If this information is valid, the user is asked to take three different photos of their face as well as a photo of their ID document clearly showing their face. Once all these steps are completed, the user must wait for an administrator to validate their profile.

MRZ (Machine-Readable Zone)

Customer Expert Logo