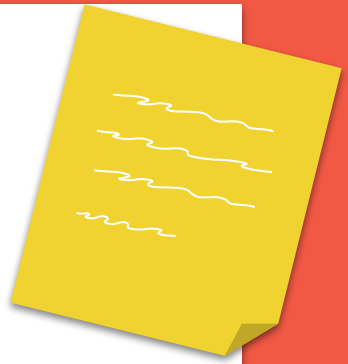
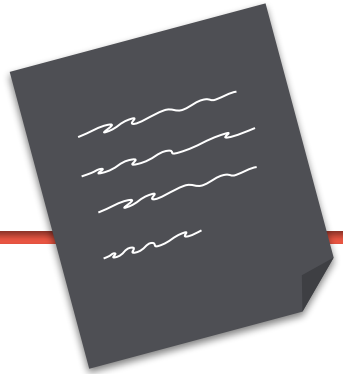
PyPASS
Password Manager

Offline, Feature-rich and easy to use

Under the guidance of Prof. Bhaswati Sahoo





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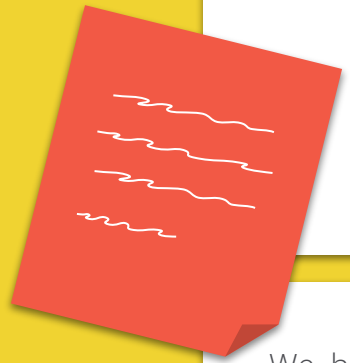

PyPASS is a Password manager which helps people manage their passwords offline. People can be irresponsible as they forget their password, design bad passwords, or are not interested in security, using the same passphrases for each and every account is dangerous as it creates one point of failure.

We, here, are tackling some of the everyday problems including:

- Cyber security concerns
- Absence of strong and secure passwords
- Hard to remember those passwords

Introduction

What is a password manager ?

A password manager is an encrypted piece of software or a program that allows users to store, generate, and manage their passwords for local applications and online services, as well as other informations in one convenient location with one master password.
(In simpler terms, a personal password-book locked by a master key that only you know)

With this application, we have strived to deliver the user with as many features and ease of usage as possible, whilst simultaneously maintaining top notch security of their valuable data.

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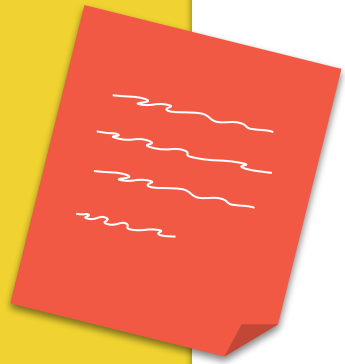
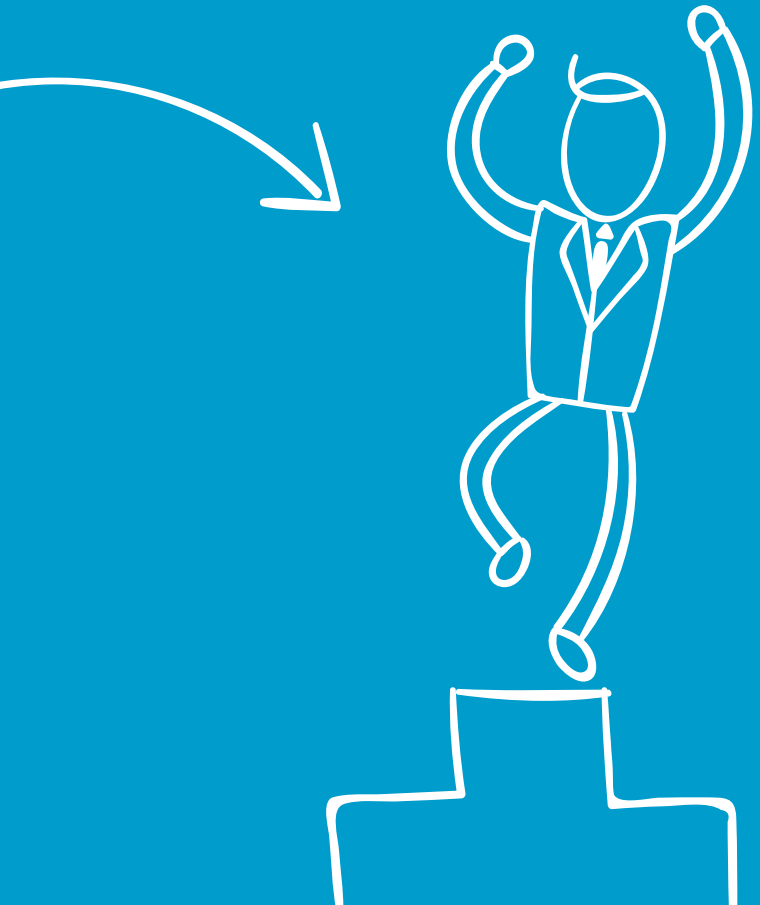
Project Objectives



How to make the product stand out in the market ?

Feature-Packed

Our application is loaded with all the necessary features so the user need not worry or look any further than PyPass.



Why use PyPASS ?

While other password managers do exist, a common factor they all share is how they store their data, which is in a **cloud server** giving the developers and other third parties access to the user's data.

PyPASS separates itself from the competition by providing a **local data storage** for the user's data on their device itself, meaning **ONLY the user has access to their precious data !**

Technologies Used

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Windows 11

An operating system used for running various functions and access to Powershell

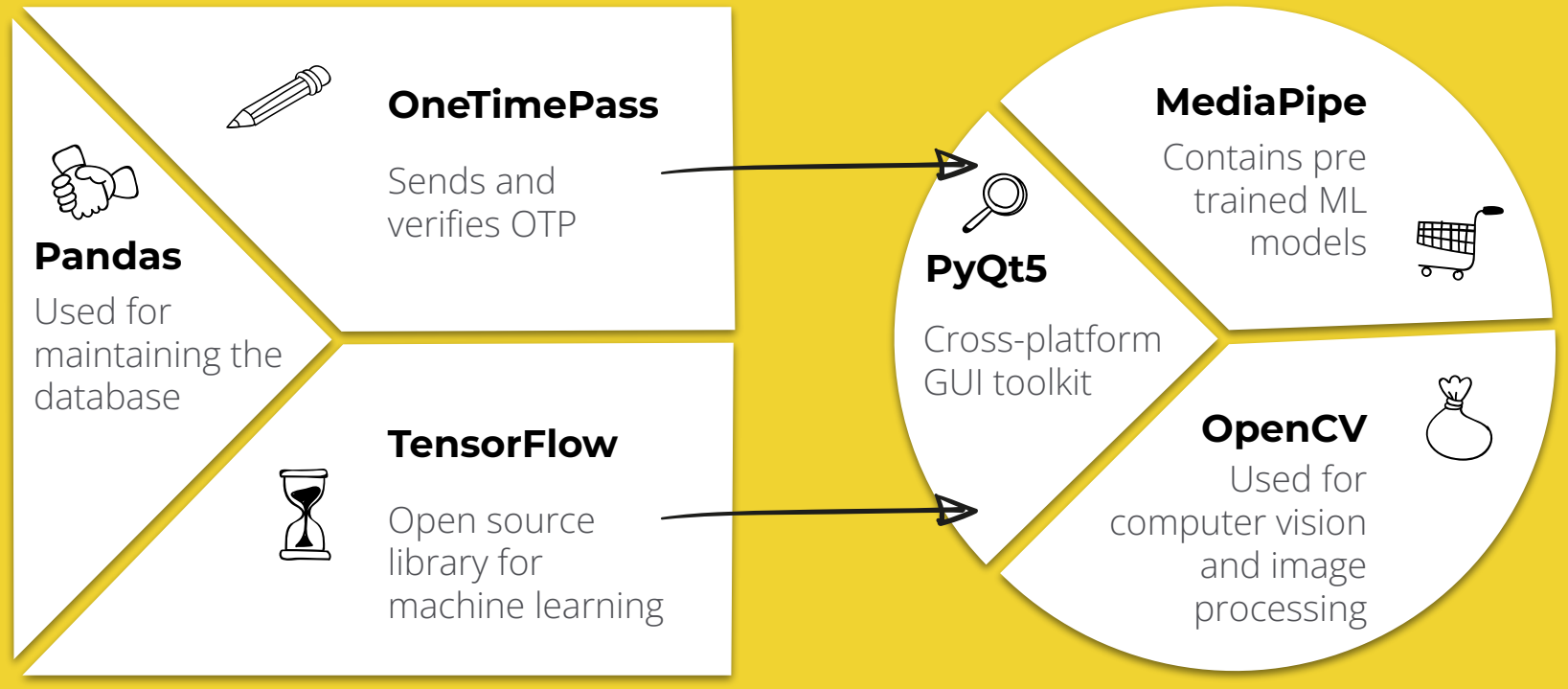
Python 3.10

General purpose, high level, interpreted language

Machine Learning and Computer Vision

Using hand gestures as an authentication sequence

Python Libraries Used



Sneak Peek

A quick look at everything we have in store and what's to come.

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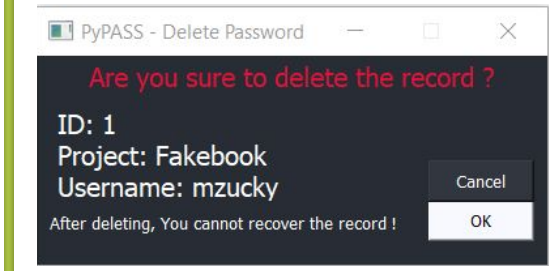
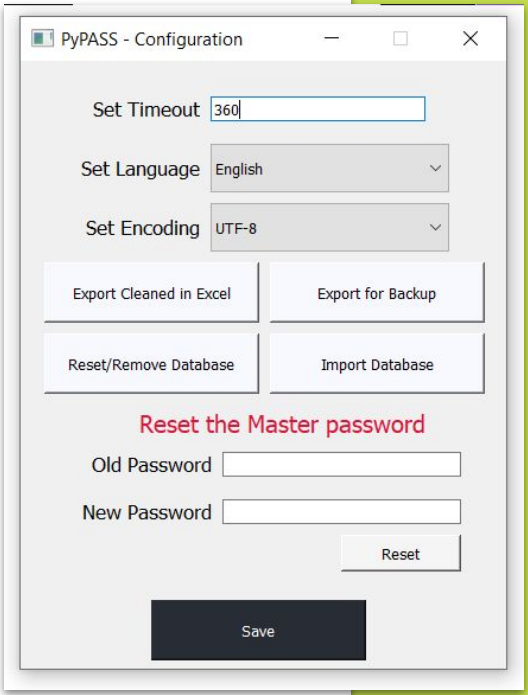
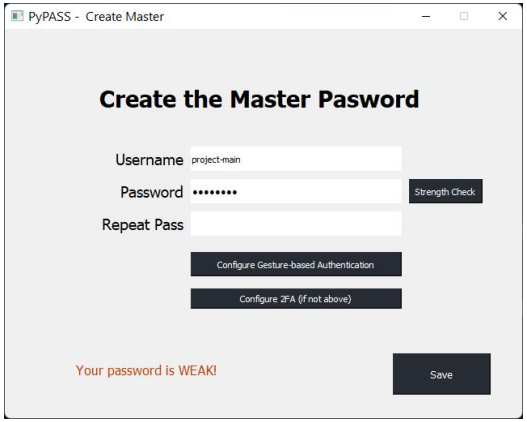
Features

We provide all the necessary basic features needed all in one place:

- ***Search*** *for existing records*
- ***Add/Delete*** *existing records*
- *Copy stored credentials straight to the* ***clipboard***
- *Settings menu with user* ***preferences*** *and* ***export/import*** *options*

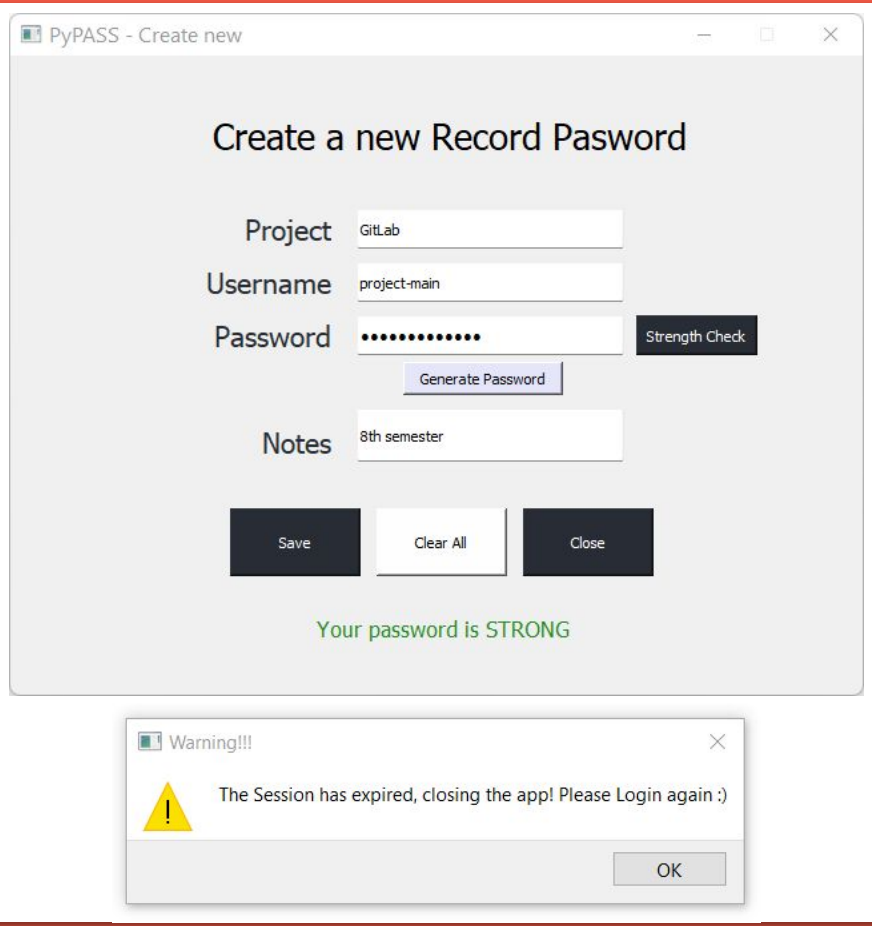






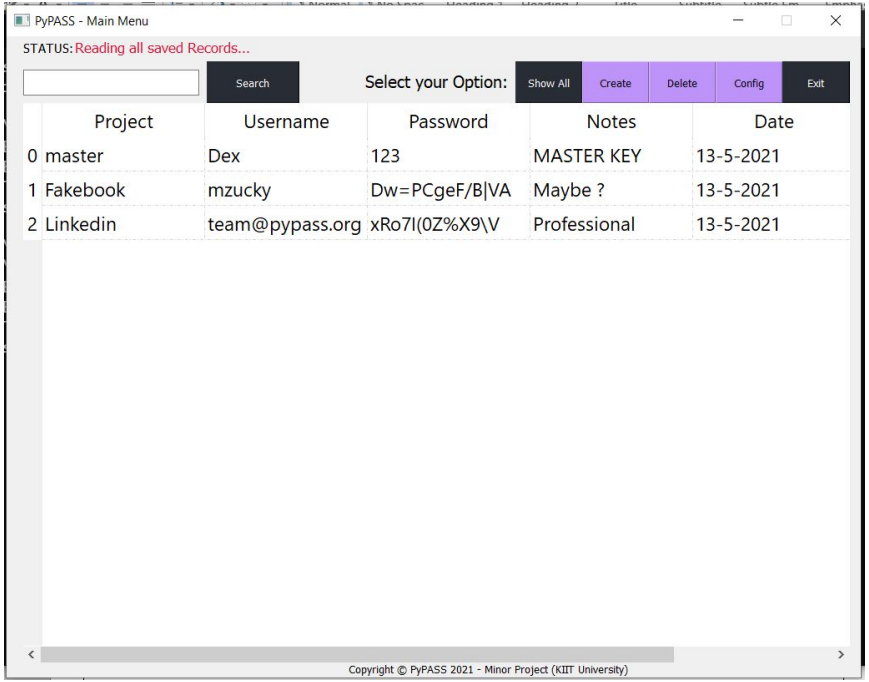
Features

- ***Session timeout*** *if user leaves application unattended too long*
- ***Password Generator*** *to suggest new, secure passwords*
- ***Password Strength Analyzer*** *for added advisory to the user*



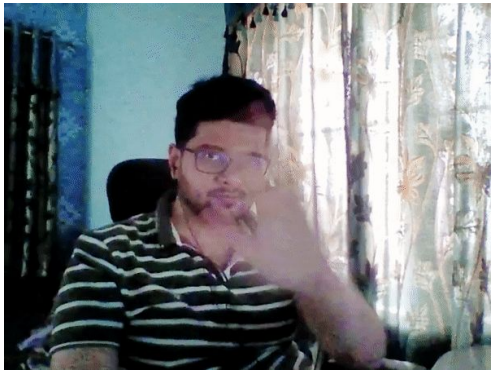
Friendly User Interface

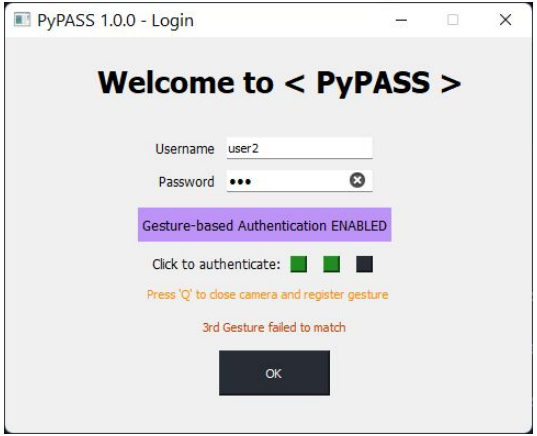
We have ensured the application to be as easy to use as possible whilst fulfilling all the necessary standards.

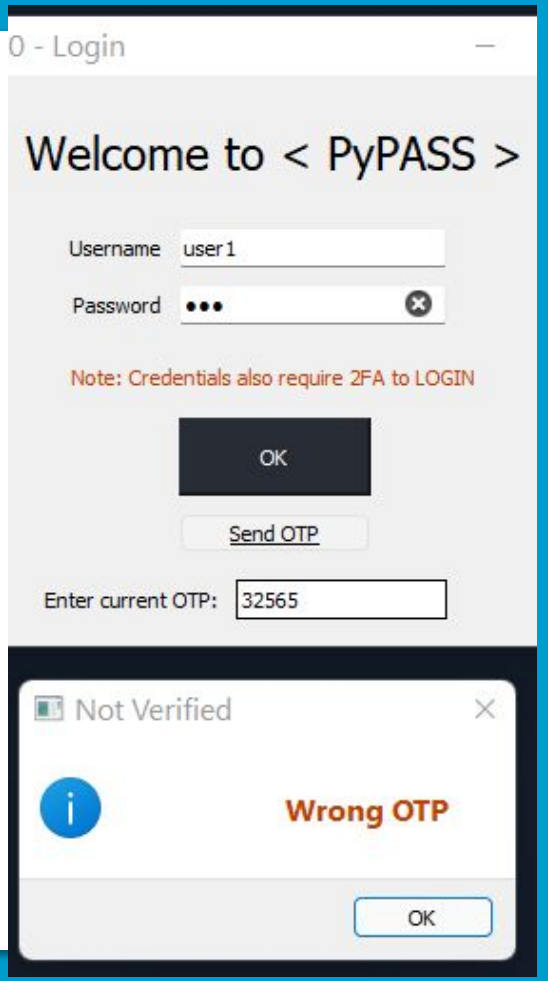


Security, Priority

- ***2FA*** *prompts the user to enter the* ***OTP*** *every times he wishes to login*
- ***Hand Gesture Recognition****, a sequence of gestures the user makes to login to the app using ML and CV*







Future Scope

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Integrating a SQL database with the app

Make the application fully portable

Make the application multi user

GUI upgrades and improvements

Meet Our Team

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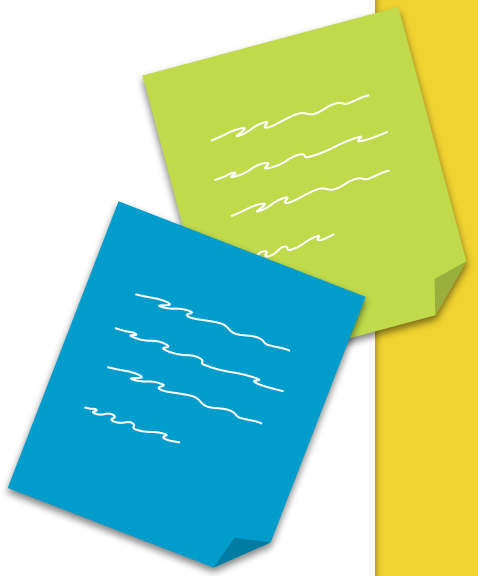
Thanks !



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