Authorized Folder Access

# Background

* People (e.g. Julia) have an own network user configured to access specific confidential (vertraulich) folders, while others may not access these folders.
* When they open these folders, Windows asks them to authenticate. When authenticated, the network user is granted access to the folders and files within.
* The PC is also used by other people. The Windows-User is rarely logged off and everyone knows the Windows password.
* There is only one Windows-User for people (outside the IT-Administration)

# Problem

* Other people using the same PC can illicitly access the confidential directories
* Windows doesn’t automatically disconnect the network user, when the accessed folder is closed
  + Until the Windows-User is logged off, which rarely happens

# Goal

* The access to the authorized folder should be safe – The session should end when the access is finished

# Solution

#### Github: <https://github.com/Capicodo/Authorized-Folder-Access.git>

* The Solution is scripted in Python
* The code runs from Windows-AutoStart Folder and checks all explorer-windows-paths for a match with the relevant path. This treats the access safely even if the folder is opened in another way than through the python file/ programmed access
* The relevant path is specified in a config.ini file
* A process disconnects all network users, when the confidential directory is closed
  + This ensures that for further access the authorized person needs to authenticate again
* The Structure of the Code and Function-Explanation is written in the .pyw file (src\Vertraulicher Zugriff Background Watcher.pyw) as docstrings

# Getting Started

* Install Python globally
* Install Vertraulicher Zugriff Background Watcher:
  + Download/Clone the Repo
  + Drag the “Vertraulicher Zugriff Background Watcher“ Folder ("C:\Authorized-Folder-Access\ build\Vertraulicher Zugriff Background Watcher") in C:\Program Files
  + Open the folder
  + Open the config.ini in a Text Editor and change the folder\_path to the target path
  + Right click the “Vertraulicher Zugriff Background Watcher.pyw” Python file
    - -> Make shortcut
      * Move the shortcut in C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Startup
  + Restart the Computer
  + Watch if errors pop up after Login
    - If not: finished

# Usage

* The Code runs independently in the Background.
* The destination folder can be accessed like normal, no Log-Off Button is needed anymore

# Future Enhancements

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