**Installation Guide**

1. Download and install two IDEs; PyCharm for the applications’ features that require machine learning and artificial intelligence and Android Studio for implementing the application.
2. Create an Anaconda virtual environment selecting a python version between 3.7 and 3.8 and install the latest versions of ALL these packages: OpenCV, numpy, dlib, cmake, face\_recognition, os, torch, pytesseract, flask, base64, io, PIL. Then, use this environment as the python interpreter of the ‘flask app’ project.
3. You will find a text file called ‘requirement.txt’ in the ‘flask app’ folder. Open the file, copy the command located at the first line, and execute it in the project terminal.
4. Copy this link address, paste it in your web browser, and download it.

<https://digi.bib.uni-mannheim.de/tesseract/tesseract-ocr-w64-setup-v5.1.0.20220510.exe>

1. Copy this link address, paste it in your web browser, and follow the video steps to install Flutter in Android Studio.

<https://www.youtube.com/watch?v=hfz_AraTk_k>

1. Walk through all the .py files in the ‘flask app’ folder and change the paths to the correct ones according to your PC/laptop.
2. Make sure your PC/laptop are both connected to the same WiFi and the internet connection is stable and fast.
3. Open your CMD and type ‘ipconfig/all’ and press enter. It will output a sequence of sections. In the section before the last one, you will find IPv4 address, copy it and keep it in somewhere.
4. Walk through all the .dart files in the ‘screens’ directory located under the ‘lib’ directory in the ‘flutter project’ after opening it in Android Studio. Replace any IPv4 address you find address you find with the one you have saved before.
5. NOW, run the ‘main.py’ file in the ‘flask app’ folder, connect your mobile to the PC/laptop with a USB cable and check its developer options are on, and run the application.
6. You may face some issues preventing your application from executing on your mobile due to changing the PC/laptop. Copy the message error and google its solution.
7. In the worst case scenario, the application may give no output without errors or exceptions for unreasonable/unknown causes. Try to check the internet or restart the PC/laptop and try again.