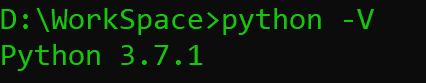
PHOTO FACE SORTER AND ANONYMIZER

USER GUIDE

1. **User Guide**
   1. Software/Pre-Requisites
      1. Web Browsers
2. Google Chrome 88
3. Edge 44
4. Firefox 72
   * 1. Database

* SQLALCHEMY, it will be installed along with other dependent libraries.
  + 1. Python – if you installed Anaconda you may skip section
* Download [python](https://www.python.org/downloads/) with your own OS
* Follow instruction on the website to install it properly.
* Verify python by entering python in command line, if you see a response from a python interpreter, means installation is success.



* + 1. pip – if you have installed Python >= 3.4 you may skip this section.
* Download [get-pip.py](https://bootstrap.pypa.io/get-pip.p) to a folder on your computer.
* Open a command prompt and navigate to the folder containing get-pip.py.
* Run the following command to install pip separately.



1. **System Running**

After you finished to install application and run it successful. Open <http://localhost:8000/> to reach out the home page.

A screenshot of a computer

Description automatically generated with medium confidence

Home Page:

Graphical user interface

Description automatically generated

There are two main components in this application:

* 1. **Admin Portal**

Admin could upload a bunch of group photos. System will utilize a clustering algorithm to group all faces detected in these photos then match against those individual photos.

Below is the upload function for admin.

Graphical user interface, text, application, email

Description automatically generated

Admin can view all uploaded group photos via view function.

A collage of a person

Description automatically generated with low confidence

Admin can delete photos if they no need.

Graphical user interface, text, application

Description automatically generated

* 1. **Registration**

Users need to sign up a new account before using this application.

Click the “sign up” button and enter all mandatory information in the fields.

Graphical user interface, application

Description automatically generated

* 1. **User Portal**

User will be asked to upload profile photos before face matching and masking. Below is the profile upload function. You should upload a valid profile photo with faces in it.

Graphical user interface, application, Teams

Description automatically generated

User can modify or delete existing profile photo by clicking buttons shown in below page.

Graphical user interface, application, website

Description automatically generated

System will bring you to the profile home page after click “Mach” button in the profile upload page or “Home” button on the right upper corner.

Then user can choose which profile they wanted to filter. For example, we choose Trump.

Graphical user interface

Description automatically generated

As you see, all group photos with Trump in it will be selected and mask all faces except Trump with a smile face.

Graphical user interface, application, website

Description automatically generated

Then you can choose any prefer photos to download to local.