**Instructions for Demonstrating UI Subsystem**

The user interface subsystem is split in to two separate files: “funcui.py” and “nonfuncui.py” . The former demonstrates a prototype of how functions could be called from the UI. The latter demonstrates a non-functional, but aesthetically amended version of the UI where that could not be achieved in the same file due to issues with the framework used for development.

To demonstrate funcui.py

1. Ensure tkinter and PIL packages are installed. (It also has dependency on camera.py from another subsystem, but this shouldn’t be an issue as they are submitted in the same file)
2. Run the program(you should then see the following interface)

A screenshot of a cell phone

Description automatically generated

1. Select “run training” or “detect gestures” to launch live webcam feed
2. Follow console instructions
3. Exit by stopping the program

Notes:

* The Exit button is a placeholder, and is not functional as a prototype due to threading issues.
* If the UI bugs when launched for the first time, run camera.py externally then re-run the UI to fix (sometimes it does this due to there not yet being a “most recent capture” image.
* Model Accuracy is a place holder for further development
* In this functional version of the UI, the webcam window opens externally from the interface

To demonstrate nonfuncui.py

1. Ensure tkinter, PIL and CV2 are imported
2. Run the program(you should then see a webcam feed integrated in the interface)

A picture containing person, indoor, laptop, computer

Description automatically generated

1. Click “exit” to exit

Notes:

* This version of the UI is not functional, its purpose is to demonstrate the intended appearance of the interface
* The exit button is functional in this UI