AutoPhoneRec - Documentation

Programs Used:

* Python 3.6 (64 Bit)
* Pycharm (Not Required to run)

Python Modules Used

* Selenium Control internet browser, send virtual commands
* Pywinauto Control and send commands to desktop windows
* Datetime Get information regarding date and time
* Time Allows implicit wait times
* Shutil Move Files or directories
* Zipfile Unzip files
* Pandas work with datasets
* Subprocess open file location
* os/sys System processes

Extra Software/Files

* Google Chrome Webrowser
* Chromedriver Allows Selenium to control Google Chrome

Aims

1. For the last week of calls automate the weekly download of phone records as well as delete records from the website after the calls have been downloaded
2. Download call data for Tendai, and create a summary of that data

Methodology

1. Os: define a function (newest()) which finds the newest file in a folder
2. Datetime: Work out the date of the last Saturday, and define a number of dates based on that
3. Selenium & Chromedriver: Launch an instance of chrome and Navigate to website ("https://www.unlimitedhorizon.co.uk/webapp/signin"**)**, and enter sign in details. Then dismiss the cookies prompt and a password reset prompt if there is one.
4. Defines a list (LIST) of call senders/recievers and their webadresses
5. Os, Time, zip-ref, shutil: define a function (move\_download(FPATH, zip=0)) which checks the downloads folder, if a new file is found there it waits until the file has downloaded fully and then moves (or unzips if zip is set to 1) the file to a defined location (FPATH).
6. Selenium, os: loops through the list of clients (LIST), by navigating to the address (<https://www.unlimitedhorizon.co.uk/webapp/advancedstatistics>) entering the dates, client name, webadresses, and then downloads the last weeks data (Sat-Sat) and then uses move\_download() to move the files into the “Incoming Call Data” folder
7. Selenium: Navigate to the bulk download page, enter the last weeks dates and click “bulk download”, use move\_download() to wait until the file is downloaded and unzip it to the call recordings folder
8. Os, pandas: Create and run a function, which reads through all the downloaded call data csvs, appends them into a single large dataframe and inserts that into a summary excel file in the incoming call data folder
9. Subprocess: opens the call recordings file location and prompts the user to check if the files have been downloaded correctly, before deleting them from the system
10. Selenium, time: Loops though a list of clients and for each one, navigates to recorded calls, enters the daterange for the last week, clicks search, waits presses delete, and accepts the popup that apprears.