README

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Contents:

- README.md - this README file

- DuckDuckGroup.py - the application to be run

- utils/ - contains utility programs and functions.

- templates/ - contains html files to be rendered in DuckDuckGroup.py

- static/ - contains .js and .css files to stylize the look of the application

- grouping.java - this is the code that will do the grouping

- person.java - turns group members into an object to be sorted by grouping.java

- docs/ - contains relevant documentation for users and developers

Foreword:

– Have a large number of people you would like to divide into smaller groups? This is an application which is launched on your web browser and allows one to sort various people into groups based on matching criteria!

Warning:

– After cloning the repository, running this program will modify and create files within the directory which contains this repositorys files. The main python program will make calls to the terminal which will pipe output into new files. All changes to the files will be contained within the cloned repository. If you understand what has been said and are comfortable with such behavior from a program, please proceed.

– We strongly advise users to run our program in Mozilla FireFox. For some reason, our program runs inconsistently on Google Chrome.

Requirements:

– You must understand how to work with the following:

  – CSV files.
  – Unix-based shell (such as Terminal).
  – Navigation through a directory tree.

– You will need the following installed/available:

  – Python (version 3.5 or later). This application will use the run() method of the subprocess module which was introduced in Python 3.5.
  – Flask
  – Java 1.8
  – Unix-based shell
  – A CSV file with the following format:

Last	Last	Availability	Languages
Howard	Lin	AM,AT,AC,BM	JAVA,C
Randy	Chen	AM,AT	JAVA,PYTHON,C
Cody	Abe	CM,CT,FF	JAVA,PYTHON,C
Marcus	Mariota	FSU	C++
Jack	Broccoli	AM,BW,BF,BSU	JAVA
Hugh	Jackman	FSU,BM,BT,BR	C++,C
Charlie	Kelly	BM,BR,BT,BSU	C++,JAVA
Danny	DeVito	BW,AM,CR,CF,BR	JAVA,C
Tony	Stark	FSU,BM,BT,BR,AM,AR,AF	C++,C
Harold	Winston	AM,AT,AW,AR,ASU,BR,BSU	C,PYTHON,JAVA
Larry	Page	ZF	PHP
Larry	King	ZF	PHP
Larry	Bird	ZF	PHP
Ty	Burrell	AM,BW,CR	JAVA
Angela	Ziegler	AW,BSU,AW,ZF,BF	C,C++
Dennis	Reynolds	AM,BW,CR	JAVA
Rob	Boss	AM,BW,CR	JAVA
Lena	Oxton	FF,BSU,FSU,AM,ZF,AW,AF,BR,BT	PHP,JAVA,C,C++
Jordan	Peele	AM,BW,BF	PHP

Note that you can add as many columns of parameters as you want just as long as all of the information is made uniform and consistent.

– In our first iteration of this application, our algorithm generates groups of three, and adds any remaining persons to form at most two groups of four.