**Document**

This program is designed for extract information about people’s career and education from Linkedin.

**Crawler Class**

The most important class is Crawler class contains 4 main method to use.

extractProfile(String url, int atLeastNum)

this means you want to start to extract from the parameter url and you want at least atLeastNum of people’s Linkedin. It will download data to project’s local profile files and collect extracted profile into a hashmap in our Crawler class, the key is everyone’s Linkedin url. It also calculate the percentage of information you extracted succeefully.

extactSingle(String url)

you want to extract a single person’s url. If we don’t have that url as key in hashmap, we will download the data to local singleProfile file, or it will go to local profile file to extract information directly.

outputProfile()

To output every profile’s information that we extract from the hashmap.

outputSingle(String url)

use url as key to output single profile, so you should be sure that url has been extracted.

outputPercentage()

to output each percentage of metrics you extracted successfully in the hashmap.

**Education class and Company class**

Containing Information about Education and Company

**Profile class**

Contain a ArryaList<Education> and ArryaList<Company> for each profile to add new information. It also have a bunch of method to get and update company and education information. It also have some integer variable to record if metrics has already extracted.