

The Resume Shotgun

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Chapter 1

Application_3XA3_L01_GRP05 Source Code

The folders and files for this project are as follows:

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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TestCase	
test.templateTest	11
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Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Chapter 4

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

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Chapter 5

Class Documentation

5.1 pdfReader.PDF Class Reference

This class represents a [PDF](#) document.

Public Member Functions

- `def __init__ (self, path)`
Constructor for [PDF](#).
- `def display (self)`
Displays the document to the user in an interactive window.
- `def search (self, key)`
Searches the [PDF](#) for a specified keyword.
- `def split (self, page)`
Splits the [PDF](#) document into two separate [PDF](#) objects.
- `def merge (self, pdf)`
Merges two [PDF](#) objects into a single object.

5.1.1 Detailed Description

This class represents a [PDF](#) document.

Assumes all inputs are of the correct type

5.1.2 Constructor & Destructor Documentation

5.1.2.1 `__init__()`

```
def pdfReader.PDF.__init__ (  
    self,  
    path )
```

Constructor for [PDF](#).

Defines a [PDF](#) based on a file path

Parameters

<i>path</i>	String value which describes the file path to the desired document
-------------	--

5.1.3 Member Function Documentation

5.1.3.1 merge()

```
def pdfReader.PDF.merge (
    self,
    pdf )
```

Merges two [PDF](#) objects into a single object.

Parameters

<i>pdf</i>	PDF object that will be merged with current PDF
------------	---

Returns

[PDF](#) object

5.1.3.2 search()

```
def pdfReader.PDF.search (
    self,
    key )
```

Searches the [PDF](#) for a specified keyword.

Parameters

<i>key</i>	String value which is searched for
------------	------------------------------------

Returns

Boolean value based on whether or not the key could be found

5.1.3.3 split()

```
def pdfReader.PDF.split (
    self,
    page )
```

Splits the [PDF](#) document into two seperate [PDF](#) objects.

Parameters

<i>page</i>	Integer value defining at which page the PDF should be split
-------------	--

Returns

Tuple of [PDF](#) objects

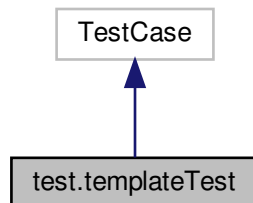
The documentation for this class was generated from the following file:

- [/home/gab/repos/application_3xa3_l01_grp05/src/pdfReader.py](#)

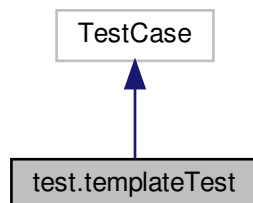
5.2 test.templateTest Class Reference

Tests.

Inheritance diagram for test.templateTest:



Collaboration diagram for test.templateTest:



Public Member Functions

- def [setUp](#) (self)
runs before every test
- def [testAEqual](#) (self)
tests X
- def [testBException](#) (self)
tests X

5.2.1 Detailed Description

Tests.

5.2.2 Member Function Documentation

5.2.2.1 [testBException\(\)](#)

```
def test.templateTest.testBException (  
    self )
```

tests X

catches thrown error

The documentation for this class was generated from the following file:

- [/home/gab/repos/application_3xa3_l01_grp05/src/test.py](#)

5.3 [userProfile.userProfile](#) Class Reference

This class represents the preferences of a user for job searching.

Public Member Functions

- def `__init__` (self, userPrompts=True)
Constructor for `userProfile`.
- def `loadProfile` (self, userPrompts="", file="profile.yaml")
Method attempts to load values from the given file to itself.
- def `saveProfile` (self, userPrompts="", file="profile.yaml")
Method attempts to save its variable values to the given file.
- def `isComplete` (self, userPrompts="")
Method verifies that all profile elements were changed that are required for a base job application.
- def `getKeywords` (self)
Method gets keywords to use in searching.
- def `getSite` (self)
Method gets site that will be scraped.
- def `getFirstName` (self)
Method gets first name.
- def `getLastName` (self)
Method gets last name.
- def `getEmail` (self)
Method gets main contact email.
- def `getPhone` (self)
Method gets phone number.
- def `getOrganisation` (self)
Method gets organisation name.
- def `getResumePath` (self)
Method gets path to resume file.
- def `getSocials` (self)
Method gets social media links.
- def `getLocation` (self)
Method gets city, state/province if applicable, and country of residence.
- def `getGradDate` (self)
Method gets graduation date.
- def `getUniversity` (self)
Method gets university attended.
- def `getProfileDict` (self)
Method gets all values stored in profile.
- def `setKeywords` (self, keywords, toggleMode=False)
Method sets keywords.
- def `setSite` (self, site)
Method tries to set active site for scraping.
- def `setFirstName` (self, name)
Method sets first name.
- def `setLastName` (self, name)
Method sets last name.
- def `setEmail` (self, email)
Method tries to set email.
- def `setPhone` (self, phone)
Method tries to set phone number.
- def `setOrganisation` (self, org)
Method sets organisation.
- def `setResumePath` (self, file, appendWorking=True)

- *Method tries to set path to resume file.*
- def [setSocials](#) (self, links, toggleMode=False)
Method sets social links.
- def [setLocation](#) (self, loc)
Method sets location.
- def [setGradDate](#) (self, grad)
Method tries to set grad date.
- def [setUniversity](#) (self, name)
Method sets university.

Static Public Attributes

- dictionary [DEFAULT](#)
Dictionary of default variable states and if they need updating for use.

5.3.1 Detailed Description

This class represents the preferences of a user for job searching.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 `__init__()`

```
def userProfile.userProfile.__init__ (
    self,
    userPrompts = True )
```

Constructor for [userProfile](#).

Sets default values for profile

Parameters

<i>userPrompts</i>	(optional) Boolean default class value for if user should require confirmations when performing tasks like saving/loading
--------------------	---

5.3.3 Member Function Documentation

5.3.3.1 `getEmail()`

```
def userProfile.userProfile.getEmail (
    self )
```

Method gets main contact email.

Returns

String indicating email address

5.3.3.2 getFirstName()

```
def userProfile.userProfile.getFirstName (
    self )
```

Method gets first name.

Returns

String indicating first name

5.3.3.3 getGradDate()

```
def userProfile.userProfile.getGradDate (
    self )
```

Method gets graduation date.

Returns

Tuple of 2 integers indicating the month and year of graduation

5.3.3.4 getKeywords()

```
def userProfile.userProfile.getKeywords (
    self )
```

Method gets keywords to use in searching.

Returns

List of strings indicating keywords

5.3.3.5 `getLastName()`

```
def userProfile.userProfile.getLastName (
    self )
```

Method gets last name.

Returns

String indicating last name

5.3.3.6 `getLocation()`

```
def userProfile.userProfile.getLocation (
    self )
```

Method gets city, state/province if applicable, and country of residence.

Returns

Tuple of 3 strings indicating city, state/province (empty string if none was provided), and country of residence

5.3.3.7 `getOrganisation()`

```
def userProfile.userProfile.getOrganisation (
    self )
```

Method gets organisation name.

Returns

String indicating organisation

5.3.3.8 `getPhone()`

```
def userProfile.userProfile.getPhone (
    self )
```

Method gets phone number.

Returns

String of numbers indicating phone number

5.3.3.9 getProfileDict()

```
def userProfile.userProfile.getProfileDict (
    self )
```

Method gets all values stored in profile.

Returns

Dictionary with string keys matching values in profile

5.3.3.10 getResumePath()

```
def userProfile.userProfile.getResumePath (
    self )
```

Method gets path to resume file.

Returns

String indicating path to resume file

5.3.3.11 getSite()

```
def userProfile.userProfile.getSite (
    self )
```

Method gets site that will be scraped.

Returns

String indicating name of site

5.3.3.12 getSocials()

```
def userProfile.userProfile.getSocials (
    self )
```

Method gets social media links.

Returns

List of strings indicating URLs to social media profiles

5.3.3.13 getUniversity()

```
def userProfile.userProfile.getUniversity (
    self )
```

Method gets university attended.

Returns

String indicating name of university

5.3.3.14 isComplete()

```
def userProfile.userProfile.isComplete (
    self,
    userPrompts = "" )
```

Method verifies that all profile elements were changed that are required for a base job application.

Parameters

<i>userPrompts</i>	(optional) Boolean for if user should require confirmations
--------------------	---

Returns

Boolean if required changes have been made

5.3.3.15 loadProfile()

```
def userProfile.userProfile.loadProfile (
    self,
    userPrompts = "",
    file = "profile.yaml" )
```

Method attempts to load values from the given file to itself.

Parameters

<i>userPrompts</i>	(optional) Boolean for if user should require confirmations
<i>file</i>	(optional) A string of the path to the saved profile

5.3.3.16 saveProfile()

```
def userProfile.userProfile.saveProfile (
    self,
    userPrompts = "",
    file = "profile.yaml" )
```

Method attempts to save its variable values to the given file.

Will overwrite the file if it exists already

Parameters

<i>userPrompts</i>	(optional) Boolean for if user should require confirmations
<i>file</i>	(optional) A string indicating a path to the profile to write

5.3.3.17 setEmail()

```
def userProfile.userProfile.setEmail (
    self,
    email )
```

Method tries to set email.

Method will not change the value if the new input is invalid

Parameters

<i>email</i>	String indicating email
--------------	-------------------------

Returns

Boolean True if email was updated (has top-level domain and "@"), False if not

5.3.3.18 setFirstName()

```
def userProfile.userProfile.setFirstName (
    self,
    name )
```

Method sets first name.

Parameters

<i>name</i>	String indicating name
-------------	------------------------

5.3.3.19 setGradDate()

```
def userProfile.userProfile.setGradDate (
    self,
    grad )
```

Method tries to set grad date.

Parameters

<i>grad</i>	A length 2 list of integers in the form [grad month, grad year]
-------------	---

Returns

Boolean True if date was updated (grad month number must be from 1-12), False if not

5.3.3.20 setKeywords()

```
def userProfile.userProfile.setKeywords (
    self,
    keywords,
    toggleMode = False )
```

Method sets keywords.

Parameters

<i>keywords</i>	A list of strings used as keywords
<i>toggleMode</i>	(optional) If true, instead of overwriting the class variable with the parameter, it will add words to the class variable from the parameter that are not there and remove ones that are

5.3.3.21 setLastName()

```
def userProfile.userProfile.setLastName (
    self,
    name )
```

Method sets last name.

Parameters

<i>name</i>	String indicating name
-------------	------------------------

5.3.3.22 setLocation()

```
def userProfile.userProfile.setLocation (
    self,
    loc )
```

Method sets location.

If 2 inputs received, it will be stored as a length 3 with a blank value between the two inputted values so indexing always access the same kind of location (i.e. country)

Parameters

<i>loc</i>	A length 2 or 3 list of strings indicating locations in the form [city, state/province, country] or [city, country]
------------	---

5.3.3.23 setOrganisation()

```
def userProfile.userProfile.setOrganisation (
    self,
    org )
```

Method sets organisation.

Parameters

<i>org</i>	String indicating organisation name
------------	-------------------------------------

5.3.3.24 setPhone()

```
def userProfile.userProfile.setPhone (
    self,
    phone )
```

Method tries to set phone number.

Method will not change the value if the new input is invalid; accepts different formats including those with brackets or dashes; do not include country codes

Parameters

<i>phone</i>	String of numbers indicating email
--------------	------------------------------------

Returns

Boolean True if email was updated (exactly 10 numbers), False if not

5.3.3.25 setResumePath()

```
def userProfile.userProfile.setResumePath (
    self,
    file,
    appendWorking = True )
```

Method tries to set path to resume file.

Method also checks if file exists, and if it does not it will not change it

Parameters

<i>file</i>	A string indicating a path to a resume file
<i>appendWorking</i>	(optional) Append the working directory to the file if applicable

Returns

Boolean True if file exists and updates, False if not

5.3.3.26 setSite()

```
def userProfile.userProfile.setSite (
    self,
    site )
```

Method tries to set active site for scraping.

Method will not change the active site if it does not map to one in the list

Parameters

<i>site</i>	Integer indicating index of site to swap to
-------------	---

Returns

Boolean True if the site was updated, False if not

5.3.3.27 setSocials()

```
def userProfile.userProfile.setSocials (
    self,
    links,
    toggleMode = False )
```

Method sets social links.

When toggleMode = True, only the site name is required to remove an element

Parameters

<i>links</i>	A list of strings used as links
<i>toggleMode</i>	(optional) If true, instead of overwriting the class variable with the parameter, it will add words to the class variable from the parameter that are not there and remove ones that are

5.3.3.28 setUniversity()

```
def userProfile.userProfile.setUniversity (
    self,
    name )
```

Method sets university.

Parameters

<i>name</i>	String indicating university name
-------------	-----------------------------------

5.3.4 Member Data Documentation

5.3.4.1 DEFAULT

```
dictionary userProfile.userProfile.DEFAULT [static]
```

Initial value:

```
= {
    "keywords": ([], False),
    "site": ("glassdoor", False),
    "firstName": ("", True),
    "lastName": ("", True),
    "email": ("", True),
    "phone": ("", True),
    "organisation": ("", False),
    "resumePath": ("", True),
    "socials": ([], False),
    "location": ((), True),
    "gradDate": ((), False),
    "university": ("", False)
}
```

Dictionary of default variable states and if they need updating for use.

Tuple; index 0 is value, index 1 is if it requires changing

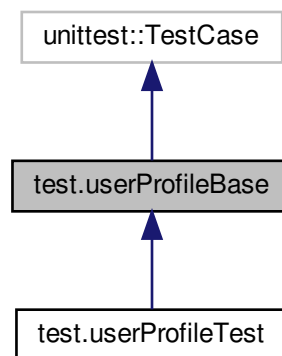
The documentation for this class was generated from the following file:

- [/home/gab/repos/application_3xa3_l01_grp05/src/userProfile.py](#)

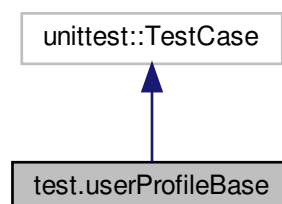
5.4 test.userProfileBase Class Reference

Setup for userProfile module.

Inheritance diagram for test.userProfileBase:



Collaboration diagram for test.userProfileBase:



Public Member Functions

- def [setUp](#) (self)
Runs before every test.
- def [loadFull](#) (self)
Fills in profile with non-default values.
- def [makeFullProfile](#) (self)
Creates saved profile file for test purposes.

Public Attributes

- **profile**

5.4.1 Detailed Description

Setup for userProfile module.

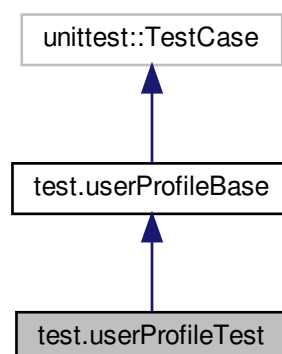
The documentation for this class was generated from the following file:

- [/home/gab/repos/application_3xa3_l01_grp05/src/test.py](#)

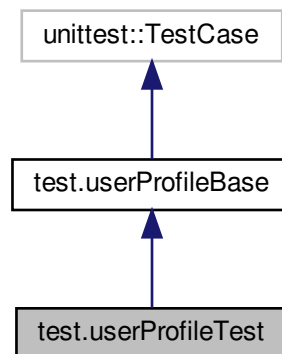
5.5 test.userProfileTest Class Reference

Tests for userProfile module.

Inheritance diagram for test.userProfileTest:



Collaboration diagram for test.userProfileTest:



Public Member Functions

- def `testAEqual` (self)
 tests X
- def `testBException` (self)
 tests X

Additional Inherited Members

5.5.1 Detailed Description

Tests for userProfile module.

5.5.2 Member Function Documentation

5.5.2.1 testBException()

```
def test.userProfileTest.testBException (  
    self )
```

tests X

catches thrown error

The documentation for this class was generated from the following file:

- `/home/gab/repos/application_3xa3_l01_grp05/src/test.py`

Chapter 6

File Documentation

6.1 /home/gab/repos/application_3xa3_l01_grp05/src/apply.py File Reference

Main module used for the application process.

Functions

- def `apply.greenhouse` (driver)
Fills in website text boxes with user information and submits resume.
- def `apply.lever` (driver)
Fills in website text boxes with user information and submits resume.

Variables

- string `apply.URL_I2` = 'https://jobs.lever.co/scratch/2f09a461-f01d-4041-a369-c64c1887ed97/apply?lever-source=Glassdoor'
Global Variables.
- string `apply.URL_I3` = 'https://jobs.lever.co/fleetsmith/eb6648a6-7ad9-4f4a-9918-8b124e10c525/apply?lever-source=Glassdoor'
- string `apply.URL_I4` = 'https://jobs.lever.co/stellar/0e5a506b-1964-40b4-93ab-31a1ee4e4f90/apply?lever-source=Glassdoor'
- string `apply.URL_I6` = 'https://jobs.lever.co/verkada/29c66147-82ef-4293-9a6a-aeed7e6d619e/apply?lever-source=Glassdoor'
- string `apply.URL_I8` = 'https://jobs.lever.co/rimeto/bdca896f-e7e7-4f27-a894-41b47c729c63/apply?lever-source=Glassdoor'
- string `apply.URL_I9` = 'https://jobs.lever.co/color/20ea56b8-fed2-413c-982d-6173e336d51c/apply?lever-source=Glassdoor'
- string `apply.URL_g1` = 'https://boards.greenhouse.io/instabase/jobs/4729606002?utm_campaign=google↵_jobs_apply&utm_source=google_jobs_apply&utm_medium=organic'
- list `apply.URLs` = [URL_g1, URL_I4, URL_I3, URL_I6, URL_I8, URL_I9]
- dictionary `apply.JOB_APP`
- `apply.profile` = userProfile()
Initial function run upon execution of program.
- `apply.site` = profile.getSite()
- `apply.aggregatedURLs` = get_links_glassdoor.getURLs()
Get Links From User Specified Website.
- `apply.driver` = webdriver.Chrome(executable_path='./chromedriver')

6.1.1 Detailed Description

Main module used for the application proccess.

Author

Gavin Jameson
Jeremy Langner
Sam Gorman

Date

Mar 17, 2022

6.1.2 Function Documentation

6.1.2.1 `greenhouse()`

```
def apply.greenhouse (  
    driver )
```

Fills in website text boxes with user information and submits resume.

Parameters

<i>driver</i>	Webdriver for chrome which parses and interacts with the HTML from a given website
---------------	--

6.1.2.2 `lever()`

```
def apply.lever (  
    driver )
```

Fills in website text boxes with user information and submits resume.

Parameters

<i>driver</i>	Webdriver for chrome which parses and interacts with the HTML from a given website
---------------	--

6.1.3 Variable Documentation

6.1.3.1 JOB_APP

dictionary apply.JOB_APP

Initial value:

```

1 = {
2     "first_name": "Foo",
3     "last_name": "Bar",
4     "email": "test@test.com",
5     "phone": "123-456-7890",
6     "org": "Self-Employed",
7     "resume": "resume.pdf",
8     "resume_textfile": "resume_short.txt",
9     "linkedin": "https://www.linkedin.com/",
10    "website": "www.youtube.com",
11    "github": "https://github.com",
12    "twitter": "www.twitter.com",
13    "location": "San Francisco, California, United States",
14    "grad_month": '06',
15    "grad_year": '2021',
16    "university": "MIT"
17 }
```

6.1.3.2 profile

apply.profile = userProfile()

Initial function run upon execution of program.

Gathers links through secondary modules then coordinates the application process

6.2 /home/gab/repos/application_3xa3_l01_grp05/src/get_links_glassdoor.py File Reference

Module used for collecting links from the Glassdoor site.

Functions

- def [get_links_glassdoor.login](#) (driver)
Helper method which gives the user time to log into Glassdoor.
- def [get_links_glassdoor.go_to_listings](#) (driver)
Navigates to appropriate job listing page.
- def [get_links_glassdoor.aggregate_links](#) (driver)
Aggregates all url links in a set.
- def [get_links_glassdoor.getURLs](#) ()
Main method of module which coordinates acquisition and handling of links.

Variables

- dictionary [get_links_glassdoor.PREFERENCES](#)
Global Variables.

6.2.1 Detailed Description

Module used for collecting links from the Glassdoor site.

Author

Jeremy Langner
Sam Gorman

Date

Mar 17, 2022

6.2.2 Function Documentation

6.2.2.1 aggregate_links()

```
def get_links_glassdoor.aggregate_links (
    driver )
```

Aggregates all url links in a set.

Parameters

<i>driver</i>	Webdriver for chrome which parses and interacts with the HTML from a given website
---------------	--

Returns

Set of strings defining all of the collected and cleaned links

6.2.2.2 getURLs()

```
def get_links_glassdoor.getURLs ( )
```

Main method of module which coordinates acquisition and handling of links.

Returns

Set of strings defining all of the collected links

6.2.2.3 go_to_listings()

```
def get_links_glassdoor.go_to_listings (
    driver )
```

Navigates to appropriate job listing page.

Parameters

<i>driver</i>	Webdriver for chrome which parses and interacts with the HTML from a given website
---------------	--

Returns

Boolean value to signal if process happened correctly or if an error occurred

6.2.2.4 login()

```
def get_links_glassdoor.login (
    driver )
```

Helper method which gives the user time to log into Glassdoor.

Parameters

<i>driver</i>	Webdriver for chrome which parses and interacts with the HTML from a given website
---------------	--

Returns

Boolean value of True to signal that login completed successfully

6.2.3 Variable Documentation**6.2.3.1 PREFERENCES**

dictionary `get_links_glassdoor.PREFERENCES`

Initial value:

```
1 = {
2     "position_title": "Software Engineer",
3     "location": "San Francisco, CA"
4 }
```

Global Variables.

6.3 /home/gab/repos/application_3xa3_l01_grp05/src/get_links_indeed.py File Reference

Module that signs into Indeed website.

Functions

- def `get_links_indeed.login` (driver)
PREFERENCES = { "position_title": "Software Engineer", "location": "San Francisco, CA" }.
- def `get_links_indeed.navigateToLogin` (driver)
Opens Indeed login page and inputs email and password then signs in.
- def `get_links_indeed.getURLs` ()
navigate to appropriate job listing page def go_to_listings(driver):

6.3.1 Detailed Description

Module that signs into Indeed website.

Author

Samuel Gorman

Date

March 17, 2022

6.3.2 Function Documentation

6.3.2.1 `getURLs()`

```
def get_links_indeed.getURLs ( )
```

navigate to appropriate job listing page def go_to_listings(driver):

wait for the search bar to appear

```
element = WebDriverWait(driver, 20).until( EC.presence_of_element_located((By.XPATH, "//*[@id='scBar']")) )
```

try:

look for search bar fields

```
position_field = driver.find_element_by_xpath("//*[@id='sc.keyword']") location_field = driver.find_element_by_x↵  
xpath("//*[@id='sc.location']") location_field.clear()
```

fill in with pre-defined data

```
position_field.send_keys(PREFERENCES['position_title']) location_field.clear() location_field.send_keys(PREFE↵  
RENCES['location'])
```

wait for a little so location gets set

```
time.sleep(1) driver.find_element_by_xpath("//*[id='scBar']/div/button").click()
```

close a random popup if it shows up

```
try: driver.find_element_by_xpath("//*[id='JAModal']/div/div[2]/span").click() except NoSuchElementException: pass
```

```
return True
```

note: please ignore all crappy error handling haha

```
except NoSuchElementException: return False
```

```
aggregate all url links in a set def aggregate_links(driver): allLinks = [] # all hrefs that exist on the page
```

wait for page to fully load

```
element = WebDriverWait(driver, 20).until( EC.presence_of_element_located((By.XPATH, "//*[id='MainCol']/div[1]/ul")) )
```

```
time.sleep(5)
```

parse the page source using beautiful soup

```
page_source = driver.page_source soup = BeautifulSoup(page_source)
```

find all hrefs

```
allJobLinks = soup.findAll("a", {"class": "jobLink"}) allLinks = [jobLink['href'] for jobLink in allJobLinks] allFixedLinks = []
```

clean up the job links by opening, modifying, and 'unraveling' the URL

```
for link in allLinks:
```

first, replace GD_JOB_AD with GD_JOB_VIEW

this will replace the Glassdoor hosted job page to the proper job page

hosted on most likely Greenhouse or Lever

```
link = link.replace("GD_JOB_AD", "GD_JOB_VIEW")
```

if there is no glassdoor prefex, add that

for example, /partner/jobListing.htm?pos=121... needs the prefix

```
if link[0] == '/':
    link = f"https://www.glassdoor.com{link}"
```

then, open up each url and save the result url

because we got a 403 error when opening this normally, we have to establish the user agent

```
user_agent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.0.7) Gecko/2009021910 Firefox/3.0.↵
7' headers={'User-Agent':user_agent,} request=urllib.request.Request(link,None,headers) #The assembled request
```

try:

the url is on glassdoor itself, but once it's opened, it redirects - so let's store that

```
response = urllib.request.urlopen(request) newLink = response.geturl()
```

if the result url is from glassdoor, it's an 'easy apply' one and worth not saving

however, this logic can be changed if you want to keep those

```
if "glassdoor" not in newLink: print(newLink) print('
') allFixedLinks.append(newLink) except Exception:
```

horrible way to catch errors but this doesnt happen regualrly (just 302 HTTP error)

```
print(f'ERROR: failed for {link}') print('
')
```

convert to a set to eliminate duplicates

return set(allFixedLinks) Instantiates a Selenium chrome driver with executable path to the chrome driver lcoation then calls [login\(\)](#)

6.3.2.2 login()

```
def get_links_indeed.login (
    driver )
```

```
PREFERENCES = { "position_title": "Software Engineer", "location": "San Francisco, CA" }.
```

Opens indeed.com/ and checks if user is logged in, otherwise calls function to auto login.

Parameters

<i>driver</i>	a Selenium object utilized to navigate the page.
---------------	--

Returns

boolean representing sign in has been prompted or user is already signed in.

6.3.2.3 navigateToLogin()

```
def get_links_indeed.navigateToLogin (
    driver )
```

Opens Indeed login page and inputs email and password then signs in.

Parameters

<i>driver</i>	a Selenium object utilized to navigate the page.
---------------	--

6.4 /home/gab/repos/application_3xa3_l01_grp05/src/menu.py File Reference

Allows the user to easily view and set new values for a user profile.

Functions

- def `menu.getResumePath` ()
Gets location of resume.
- def `menu.getKeywords` ()
Gets keywords.
- def `menu.changeMenu` (newMenu=-2)
Changes state dictating what menu is shown.
- def `menu.limit` (value, mx=9, mn=1)
Processes integer inputs to only allow numbers within a given range; sets them to -1 if they are not.
- def `menu.promptInput` (forceInt=True, multiple=False)
Prompts user for a menu selection and processes result.
- def `menu.run` (profile)
Runs menu, allowing user to tweak preferences.

6.4.1 Detailed Description

Allows the user to easily view and set new values for a user profile.

Author

Gavin Jameson

Date

Mar 17, 2022

6.4.2 Function Documentation**6.4.2.1 changeMenu()**

```
def menu.changeMenu (
    newMenu = -2 )
```

Changes state dictating what menu is shown.

Parameters

<i>newMenu</i>	(optional) Integer for new menu state number (default does not change menu)
----------------	---

Returns

True if menu was updated (same menu page or not), False if invalid input was given

6.4.2.2 getKeywords()

```
def menu.getKeywords ( )
```

Gets keywords.

Returns

List of strings specified as keywords for searching

6.4.2.3 getResumePath()

```
def menu.getResumePath ( )
```

Gets location of resume.

Returns

String corresponding to location of resume file

6.4.2.4 limit()

```
def menu.limit (
    value,
    mx = 9,
    mn = 1 )
```

Processes integer inputs to only allow numbers within a given range; sets them to -1 if they are not.

Parameters

<i>value</i>	Integer to process
<i>mx</i>	(optional) Maximum allowed integer
<i>mn</i>	(optional) Minimum allowed integer

Returns

Integer indicating the original input if it is within the range, or -1 if it was not in the range

6.4.2.5 promptInput()

```
def menu.promptInput (
    forceInt = True,
    multiple = False )
```

Prompts user for a menu selection and processes result.

Parameters

<i>forceInt</i>	(optional) Boolean True if the input(s) must be of type integer
<i>multiple</i>	(optional) Boolean True if multiple choices should be returned

Returns

Integer for menu choice if one choice is desired, a list of integers if multiple are desired, and -1 if there is an error or no input

6.4.2.6 run()

```
def menu.run (
    profile )
```

Runs menu, allowing user to tweak preferences.

Parameters

<i>profile</i>	userProfile object to manipulate
----------------	----------------------------------

6.5 /home/gab/repos/application_3xa3_I01_grp05/src/menuMessages.py File Reference

interface messages module

Functions

- def [menuMessages.displayMenuMain](#) ()
Displays text for main menu options.
- def [menuMessages.displayMenuResume](#) (path)
Displays text for resume menu options.
- def [menuMessages.displayMenuPlaceholder](#) ()
Displays text for personal info menu.
- def [menuMessages.displayMenuKeywords](#) (keywords)
Displays text for keywords menu options.
- def [menuMessages.displayMenuPreferences](#) ()
Displays text for job preferences menu.
- def [menuMessages.displayMenuSites](#) (site, siteList)
Displays text for sites menu options.
- def [menuMessages.displayMenuPlaceholder](#) (menu="??")
Displays text for unimplemented menu.
- def [menuMessages.clearScreen](#) ()
Clears console screen.
- def [menuMessages.wrappedString](#) (raw, width=30)
Adds newlines to a string or combines a list of values with newlines such that it does not exceed a given width.
- def [menuMessages.displayError](#) (error="general")
Displays error messages.
- def [menuMessages.waitForUser](#) ()
Prompts user to confirm before continuing.

6.5.1 Detailed Description

interface messages module

Author

Gavin Jameson

Date

Mar 17, 2022

6.5.2 Function Documentation

6.5.2.1 displayError()

```
def menuMessages.displayError (
    error = "general" )
```

Displays error messages.

Error messages are separate from Python error messages; these messages do not and should not stop execution, they should merely let the user know that the program did not do what was expected of it for the reason given

Parameters

<i>error</i>	(optional) Error message type to display
--------------	--

6.5.2.2 displayMenuKeywords()

```
def menuMessages.displayMenuKeywords (
    keywords )
```

Displays text for keywords menu options.

Parameters

<i>keywords</i>	List of strings of current keywords
-----------------	-------------------------------------

6.5.2.3 displayMenuPlaceholder()

```
def menuMessages.displayMenuPlaceholder (
    menu = "??" )
```

Displays text for unimplemented menu.

Parameters

<i>menu</i>	(optional) String for menu location
-------------	-------------------------------------

6.5.2.4 displayMenuResume()

```
def menuMessages.displayMenuResume (
    path )
```

Displays text for resume menu options.

Parameters

<i>path</i>	String for current path to resume file
-------------	--

6.5.2.5 displayMenuSites()

```
def menuMessages.displayMenuSites (
    site,
    siteList )
```

Displays text for sites menu options.

Parameters

<i>site</i>	String indicating current site
<i>siteList</i>	List of strings of names of available sites

6.5.2.6 wrappedString()

```
def menuMessages.wrappedString (
    raw,
    width = 30 )
```

Adds newlines to a string or combines a list of values with newlines such that it does not exceed a given width.

Each new line is padded with a space for optimal aesthetics, that space character IS included in the width

Parameters

<i>raw</i>	String or list to wrap
<i>width</i>	(optional) Integer for maximum width allowed

Returns

String with no line longer than the given width in characters (if possible)

6.6 /home/gab/repos/application_3xa3_l01_grp05/src/pdfReader.py File Reference

PDF Interpretor.

Classes

- class [pdfReader.PDF](#)
This class represents a [PDF](#) document.

6.6.1 Detailed Description

PDF Interpretor.

Author

Sam Gorman

Date

Mar 17, 2022

6.7 /home/gab/repos/application_3xa3_l01_grp05/src/sites.py File Reference

sites "dictionary"

Functions

- def [sites.userToURL](#) (username, site)
Method converts website name and username to URL.

Variables

- list [sites.SITESLIST](#) = ["glassdoor", "indeed"]
List of strings indicating supported sites.
- dictionary [sites.GETLINKSFILE](#)
Dictionary to swap site name to correct file for scraping links.

6.7.1 Detailed Description

sites "dictionary"

Author

Gavin Jameson

Date

Mar 2, 2022

6.7.2 Function Documentation

6.7.2.1 userToURL()

```
def sites.userToURL (
    username,
    site )
```

Method converts website name and username to URL.

Parameters

<i>username</i>	String indicating username on site
<i>site</i>	String indicating title of site

Returns

String indicating URL of user's profile on the site

6.7.3 Variable Documentation

6.7.3.1 GETLINKSFILE

```
dictionary sites.GETLINKSFILE
```

Initial value:

```
1 = {
2     "glassdoor": "get_links_glassdoor.py",
3     "indeed": "get_links_indeed.py"
4 }
```

Dictionary to swap site name to correct file for scraping links.

6.7.3.2 SITESLIST

```
list sites.SITESLIST = ["glassdoor", "indeed"]
```

List of strings indicating supported sites.

In order of implementation, arbitrarily chosen to be this way

6.8 /home/gab/repos/application_3xa3_I01_grp05/src/test.py File Reference

Testing for modules.

Classes

- class [test.templateTest](#)
Tests.
- class [test.userProfileBase](#)
Setup for userProfile module.
- class [test.userProfileTest](#)
Tests for userProfile module.

6.8.1 Detailed Description

Testing for modules.

Author

Gavin Jameson

Date

Mar 16, 2022

6.9 /home/gab/repos/application_3xa3_I01_grp05/src/userProfile.py File Reference

user profile module

Classes

- class [userProfile.userProfile](#)
This class represents the preferences of a user for job searching.

6.9.1 Detailed Description

user profile module

Author

Gavin Jameson

Date

Mar 17, 2022

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