

The Resume Shotgun

Generated by Doxygen 1.8.13

Contents

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:

indeed.Indeed	??
Job.Job	??
pdfReader.pdfReader	??
TestCase	
test.indeedTest	??
test.templateTest	??
test.userProfileBase	??
test.menuTest	??
test.userProfileTest	??
userProfile.userProfile	??

Chapter 3

Class Index

3.1 Class List

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

indeed.Indeed	..	??
test.indeedTest	..	??
Job.Job	..	??
test.menuTest		
Allows manual tests for menu module	..	??
pdfReader.pdfReader		
This class represents a PDF document	..	??
test.templateTest		
Tests	..	??
userProfile.userProfile		
This class represents the preferences of a user for job searching	..	??
test.userProfileBase		
Setup for userProfile module	..	??
test.userProfileTest		
Tests for userProfile module	..	??

Chapter 4

File Index

4.1 File List

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

/home/gab/repos/application_3xa3_l01_grp05/src/ apply.py	
Main module used for the application proccess	??
/home/gab/repos/application_3xa3_l01_grp05/src/ get_links_glassdoor.py	
Module used for collecting links from the Glassdoor site	??
/home/gab/repos/application_3xa3_l01_grp05/src/ get_links_indeed.py	
Module that signs into Indeed website	??
/home/gab/repos/application_3xa3_l01_grp05/src/ Job.py	
Module that creates job class with various methods	??
/home/gab/repos/application_3xa3_l01_grp05/src/ menu.py	
Allows the user to easily view and set new values for a user profile	??
/home/gab/repos/application_3xa3_l01_grp05/src/ menuMessages.py	
Interface messages for menu	??
/home/gab/repos/application_3xa3_l01_grp05/src/ pDef.py	
General information about the user profile module that needs to be accessed in numerous places	??
/home/gab/repos/application_3xa3_l01_grp05/src/ pdfReader.py	
PDF Interpretor	??
/home/gab/repos/application_3xa3_l01_grp05/src/ sites.py	
Sites "dictionary"	??
/home/gab/repos/application_3xa3_l01_grp05/src/ test.py	
Testing for modules	??
/home/gab/repos/application_3xa3_l01_grp05/src/ userProfile.py	
User profile module	??

Chapter 5

Class Documentation

5.1 indeed.Indeed Class Reference

Public Member Functions

- def `__init__` (self, keyword, location, driver=webdriver.Chrome('./chromedriver'))
Constructs a job search using [Indeed](#).
- def `updateCurrentPage` (self, url)
- def `search` (self)
Enters in search parameters and returns url of results.
- def `getJob` (self)
Find essential job info(title, company, link) and creates a Job class.
- def `getPages` (self)
Gets number of pages based on an [Indeed](#) search result.
- def `pageParser` (self)
Formats various indeed job search pages.
- def `run` (self)
Used to run various module functions.
- def `closeConnection` (self)
- def `returnAllJobs` (self)
- def `returnLinks` (self)

Public Attributes

- `keyword`
- `location`
- `driver`
- `url`
- `page`
- `soup`
- `numJobs`
- `jobPages`

Static Public Attributes

- list **jobs** = []
- list **links** = []
- string **url** = ""
- string **keyword** = ""
- string **location** = ""
- int **jobPages** = 0
- int **numJobs** = 0
- list **nextPages** = []
- string **page** = ""
- string **soup** = ""

5.1.1 Constructor & Destructor Documentation

5.1.1.1 __init__()

```
def indeed.Indeed.__init__ (
    self,
    keyword,
    location,
    driver = webdriver.Chrome('./chromedriver') )
```

Constructs a job search using [Indeed](#).

Parameters

<i>keyword</i>	a string representing the job title/position that the user is interested in searching for.
<i>location</i>	a string representing the desired job location.

5.1.2 Member Function Documentation

5.1.2.1 getJob()

```
def indeed.Indeed.getJob (
    self )
```

Find essential job info(title, company, link) and creates a Job class.

Uses beautiful soup to search linearly down the page with two different methods but align once search with the other properly

5.1.2.2 `getPages()`

```
def indeed.Indeed.getPages (
    self )
```

Gets number of pages based on an [Indeed](#) search result.

5.1.2.3 `pageParser()`

```
def indeed.Indeed.pageParser (
    self )
```

Formats various indeed job search pages.

5.1.2.4 `run()`

```
def indeed.Indeed.run (
    self )
```

Used to run various module functions.

5.1.2.5 `search()`

```
def indeed.Indeed.search (
    self )
```

Enters in search parameters and returns url of results.

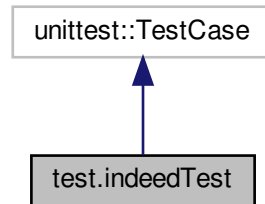
Uses Selenium to send keys to Indeed.com

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

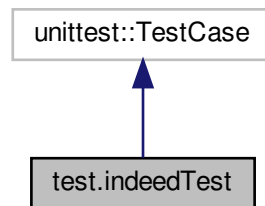
- `/home/gab/repos/application_3xa3_l01_grp05/src/indeed.py`

5.2 test.indeedTest Class Reference

Inheritance diagram for test.indeedTest:



Collaboration diagram for test.indeedTest:



Public Member Functions

- def [test_noResults](#) (self)
Tests for valid input but no results.
- def [test_invalidSearch1](#) (self)
Tests for an invalid keyword.
- def [test_invalidSearch2](#) (self)
Tests for an invalid location.
- def [test_getJobsSinglePage](#) (self)
Tests for an valid keyword and location with all results on single page.
- def [test_getJobsSinglePage](#) (self)
Tests for an valid keyword and location with all results multiple pages.
- def [test_getJobsMultiplePages](#) (self)
Tests for an valid keyword and location with all results multiple pages.

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

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

5.3 Job.Job Class Reference

Public Member Functions

- `def __init__ (self)`
Constructs a job using.
- `def setTitle (self, newTitle)`
Setter method for [Job](#) title.
- `def setCompany (self, newCompany)`
Setter method for [Job](#) companyh.
- `def setLink (self, newLink)`
Setter method for [Job](#) link.

Public Attributes

- **title**
- **company**
- **link**

Static Public Attributes

- string **title** = ""
- string **company** = ""
- string **link** = ""

5.3.1 Constructor & Destructor Documentation

5.3.1.1 `__init__()`

```
def Job.Job.__init__ (
    self )
```

Constructs a job using.

5.3.2 Member Function Documentation

5.3.2.1 `setCompany()`

```
def Job.Job.setCompany (
    self,
    newCompany )
```

Setter method for [Job](#) companyh.

Parameters

<i>newTitle</i>	represents the new company to be set.
-----------------	---------------------------------------

5.3.2.2 setLink()

```
def Job.Job.setLink (
    self,
    newLink )
```

Setter method for [Job](#) link.

Parameters

<i>newTitle</i>	represents the new link to be set.
-----------------	------------------------------------

5.3.2.3 setTitle()

```
def Job.Job.setTitle (
    self,
    newTitle )
```

Setter method for [Job](#) title.

Parameters

<i>newTitle</i>	represents the new title to be set.
-----------------	-------------------------------------

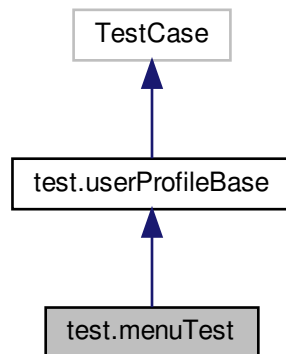
The documentation for this class was generated from the following file:

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

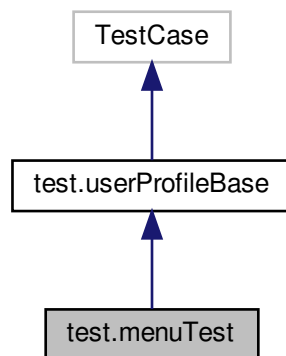
5.4 test.menuTest Class Reference

Allows manual tests for menu module.

Inheritance diagram for test.menuTest:



Collaboration diagram for test.menuTest:



Public Member Functions

- def `testKeywords` (self)
Sets states for manual keyword menu testing.

Additional Inherited Members

5.4.1 Detailed Description

Allows manual tests for menu module.

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

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

5.5 pdfReader.pdfReader Class Reference

This class represents a PDF document.

Public Member Functions

- def `__init__` (self, `path`=None, `testBool`=False)
Constructor for pdfReader.
- def `getPath` (self)
Gets the current path to PDF.
- def `browse` (self)
Creates window to browse for file.
- def `showPDF` (self)
Displays the document to the user in an interactive window.
- def `getText` (self)
Transforms the pdf to plaintext.
- def `checkImports` (self)
Checks user imports.
- 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.
- def `getAllLinks` (self)
- def `setKnownLinks` (self)
- def `setKnownLanguages` (self)

Public Attributes

- `path`
Create Dialog.
- `app`
- `doc`
- `links`
- `expectedinfo`
- `plaintext`
- `dl_array`
- `last_page`
- `link_rects`
- `link_texts`
- `current_idx`
- `current_links`
- `TextToPage`

5.5.1 Detailed Description

This class represents a PDF document.

Assumes all inputs are of the correct type

5.5.2 Constructor & Destructor Documentation

5.5.2.1 __init__()

```
def pdfReader.pdfReader.__init__ (
    self,
    path = None,
    testBool = False )
```

Constructor for [pdfReader](#).

Defines a PDF based on a file path

Parameters

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

5.5.3 Member Function Documentation

5.5.3.1 checkImports()

```
def pdfReader.pdfReader.checkImports (
    self )
```

Checks user imports.

Returns

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

5.5.3.2 getPath()

```
def pdfReader.pdfReader.getPath (
    self )
```

Gets the current path to PDF.

Returns

String representing the path

5.5.3.3 getText()

```
def pdfReader.pdfReader.getText (
    self )
```

Transforms the pdf to plaintext.

Returns

String on plaintext

5.5.3.4 merge()

```
def pdfReader.pdfReader.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

5.5.3.5 search()

```
def pdfReader.pdfReader.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

5.5.3.6 split()

```
def pdfReader.pdfReader.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

5.5.4 Member Data Documentation

5.5.4.1 path

```
pdfReader.pdfReader.path
```

Create Dialog.

Pull Up Window

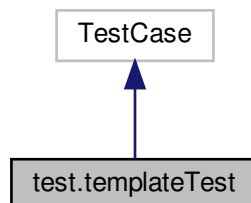
The documentation for this class was generated from the following file:

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

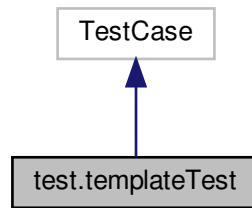
5.6 test.templateTest Class Reference

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

5.6.1 Detailed Description

Tests.

5.6.2 Member Function Documentation

5.6.2.1 `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`

5.7 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 `getJobTitle` (self)
Method gets job title 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 `getAutoLogin` (self, convert=True)
Method gets whether or not website logins should be automated.
- def `getProfileDict` (self)
Method gets all values stored in profile.
- def `setKeywords` (self, keywords, toggleMode=False)
Method sets keywords.
- def `setJobTitle` (self, title)
Method sets job title.
- 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, link, 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.*
 - def [setAutoLogin](#) (self, val)
 - Method sets auto login setting.*

5.7.1 Detailed Description

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

5.7.2 Constructor & Destructor Documentation

5.7.2.1 `__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
--------------------	---

5.7.3 Member Function Documentation

5.7.3.1 getAutoLogin()

```
def userProfile.userProfile.getAutoLogin (
    self,
    convert = True )
```

Method gets whether or not website logins should be automated.

Parameters

<i>convert</i>	(optional) Boolean if blank value should be converted to False
----------------	--

Returns

String indicating name of university

5.7.3.2 getEmail()

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

Method gets main contact email.

Returns

String indicating email address

5.7.3.3 getFirstName()

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

Method gets first name.

Returns

String indicating first name

5.7.3.4 getGradDate()

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

Method gets graduation date.

Returns

Tuple of 2 integers indicating the month and year of graduation

5.7.3.5 getJobTitle()

```
def userProfile.userProfile.getJobTitle (
    self )
```

Method gets job title to use in searching.

Returns

String indicating job title

5.7.3.6 getKeywords()

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

Method gets keywords to use in searching.

Returns

List of strings indicating keywords

5.7.3.7 getLastName()

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

Method gets last name.

Returns

String indicating last name

5.7.3.8 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

5.7.3.9 getOrganisation()

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

Method gets organisation name.

Returns

String indicating organisation

5.7.3.10 getPhone()

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

Method gets phone number.

Returns

String of numbers indicating phone number

5.7.3.11 getProfileDict()

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

Method gets all values stored in profile.

Returns

Dictionary with string keys matching values in profile

5.7.3.12 getResumePath()

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

Method gets path to resume file.

Returns

String indicating path to resume file

5.7.3.13 getSite()

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

Method gets site that will be scraped.

Returns

String indicating name of site

5.7.3.14 getSocials()

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

Method gets social media links.

Returns

List of strings indicating URLs to social media profiles

5.7.3.15 getUniversity()

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

Method gets university attended.

Returns

String indicating name of university

5.7.3.16 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

5.7.3.17 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

5.7.3.18 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

5.7.3.19 setAutoLogin()

```
def userProfile.userProfile.setAutoLogin (
    self,
    val )
```

Method sets auto login setting.

Parameters

<i>val</i>	Boolean indicating if auto login should be done
------------	---

5.7.3.20 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, False if not

5.7.3.21 setFirstName()

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

Method sets first name.

Parameters

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

5.7.3.22 setGradDate()

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

Method tries to set grad date.

Parameters

<i>grad</i>	A length 2 list of strings indicating a month (as name or int) and year
-------------	---

Returns

Boolean True if date was updated, False if not

5.7.3.23 setJobTitle()

```
def userProfile.userProfile.setJobTitle (
    self,
    title )
```

Method sets job title.

Parameters

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

5.7.3.24 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

5.7.3.25 setLastName()

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

Method sets last name.

Parameters

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

5.7.3.26 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 at 2)

Parameters

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

Returns

Boolean True if location was updated, False if not

5.7.3.27 setOrganisation()

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

Method sets organisation.

Parameters

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

5.7.3.28 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, False if not

5.7.3.29 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

5.7.3.30 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

5.7.3.31 setSocials()

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

Method sets social links.

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

Parameters

<i>link</i>	A string representing a link
<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

5.7.3.32 setUniversity()

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

Method sets university.

Parameters

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

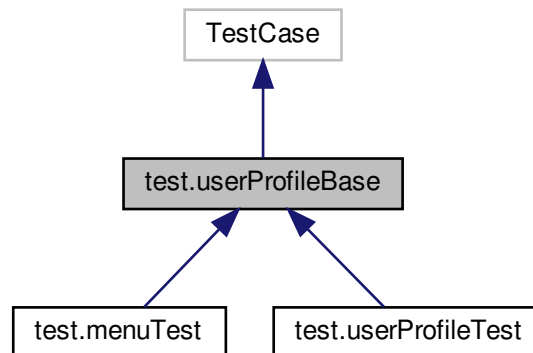
The documentation for this class was generated from the following file:

- /home/gab/repos/application_3xa3_I01_grp05/src/[userProfile.py](#)

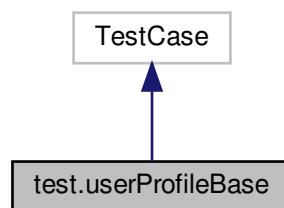
5.8 test.userProfileBase Class Reference

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`

5.8.1 Detailed Description

Setup for userProfile module.

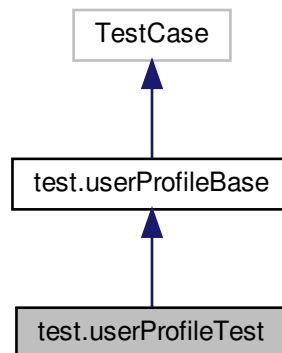
The documentation for this class was generated from the following file:

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

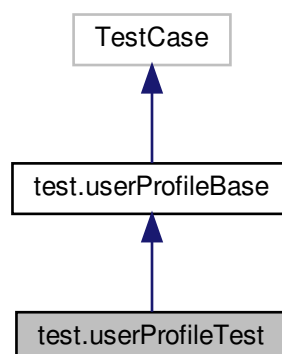
5.9 test.userProfileTest Class Reference

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

5.9.1 Detailed Description

Tests for userProfile module.

5.9.2 Member Function Documentation

5.9.2.1 [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.
- def `apply.indeed` (driver)
Fills in website text boxes with user information and submits resume for Indeed native application.

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.driver` = webdriver.Chrome('./chromedriver')
Initial function run upon execution of program.
- `apply.profile` = userProfile()
- `apply.aggregatedURLs` = get_links_indeed.run(driver, profile)

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 `indeed()`

```
def apply.indeed (
    driver )
```

Fills in website text boxes with user information and submits resume for Indeed native application.

Parameters

<i>driver</i>	Webdriver for chrome which parses and interacts with the HTML from a given website
	<code>if checkSignIn.text == "Sign in": Initial login from <i>getlinksindeedpass</i></code>

6.1.2.3 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 driver

```
apply.driver = webdriver.Chrome('./chromedriver')
```

Initial function run upon execution of program.

Gathers links through secondary modules then coordinates the application process

6.1.3.2 JOB_APP

```
dictionary apply.JOB_APP
```

Initial value:

```
1 = {
2     "first_name": "Foo",
3     "last_name": "Bar",
4     "email": "3XA3Tester@gmail.com",
5     "phone": "9053872700",
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 }
```

6.2 /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)
Opens indeed.com/ and checks if user is logged in, otherwise calls function to auto login.
- def `get_links_indeed.navigateToLogin` (driver)
Opens Indeed login page and inputs email and password then signs in.
- def `get_links_indeed.run` (driver, profile)
Instantiates a Selenium chrome driver with executable path to the chrome driver location then calls `login()`

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 login()

```

def get_links_indeed.login (
    driver )
```

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.

6.3.2.2 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/Job.py File Reference

Module that creates job class with various methods.

Classes

- class [Job.Job](#)

6.4.1 Detailed Description

Module that creates job class with various methods.

Author

Jeremy Langner

Date

March 23, 2022

6.5 /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.run` (profile)
Runs menu, allowing user to tweak preferences.

6.5.1 Detailed Description

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

Author

Gavin Jameson
Sam Gorman

Date

Apr 2, 2022

6.5.2 Function Documentation

6.5.2.1 `run()`

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

Runs menu, allowing user to tweak preferences.

Parameters

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

6.6 `/home/gab/repos/application_3xa3_l01_grp05/src/menuMessages.py` File Reference

interface messages for menu

Functions

- def `menuMessages.displayMenuMain` ()
Displays text for main menu options.
- def `menuMessages.displayMenuResume` (path)
Displays text for resume menu options.
- def `menuMessages.displayMenuPersonal` ()

- Displays text for personal info menu options.*
- def `menuMessages.displayMenuFirstName` (name)
 - Displays text for first name menu (profile submenu) options.*
- def `menuMessages.displayMenuLastName` (name)
 - Displays text for last name menu (profile submenu) options.*
- def `menuMessages.displayMenuEmail` (email)
 - Displays text for email menu (profile submenu) options.*
- def `menuMessages.displayMenuPhone` (phone)
 - Displays text for phone menu (profile submenu) options.*
- def `menuMessages.displayMenuOrganisation` (name)
 - Displays text for organisation menu (profile submenu) options.*
- def `menuMessages.displayMenuLocation` (loc)
 - Displays text for location menu (profile submenu) options.*
- def `menuMessages.displayMenuGradDate` (grad)
 - Displays text for graduation date menu (profile submenu) options.*
- def `menuMessages.displayMenuUniversity` (name)
 - Displays text for university menu (profile submenu) options.*
- def `menuMessages.displayMenuSearch` ()
 - Displays text for job search menu options.*
- def `menuMessages.displayMenuJobTitle` (title)
 - Displays text for job title menu (search submenu) options.*
- def `menuMessages.displayMenuKeywords` (keywords)
 - Displays text for keywords menu (search submenu) options.*
- def `menuMessages.displayMenuAutoLogin` (setting)
 - Displays text for auto login menu (search submenu) options.*
- 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.*

6.6.1 Detailed Description

interface messages for menu

Author

Gavin Jameson
Sam Gorman

Date

Apr 2, 2022

6.6.2 Function Documentation

6.6.2.1 `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
--------------	--

6.6.2.2 `displayMenuAutoLogin()`

```
def menuMessages.displayMenuAutoLogin (
    setting )
```

Displays text for auto login menu (search submenu) options.

Parameters

<i>site</i>	Boolean indicating current setting
-------------	------------------------------------

6.6.2.3 `displayMenuEmail()`

```
def menuMessages.displayMenuEmail (
    email )
```

Displays text for email menu (profile submenu) options.

Parameters

<i>path</i>	String for email
-------------	------------------

6.6.2.4 displayMenuFirstName()

```
def menuMessages.displayMenuFirstName (
    name )
```

Displays text for first name menu (profile submenu) options.

Parameters

<i>path</i>	String for first name
-------------	-----------------------

6.6.2.5 displayMenuGradDate()

```
def menuMessages.displayMenuGradDate (
    grad )
```

Displays text for graduation date menu (profile submenu) options.

Parameters

<i>path</i>	Tuple indicating graduation date
-------------	----------------------------------

6.6.2.6 displayMenuJobTitle()

```
def menuMessages.displayMenuJobTitle (
    title )
```

Displays text for job title menu (search submenu) options.

Parameters

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

6.6.2.7 displayMenuKeywords()

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

Displays text for keywords menu (search submenu) options.

Parameters

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

6.6.2.8 displayMenuLastName()

```
def menuMessages.displayMenuLastName (  
    name )
```

Displays text for last name menu (profile submenu) options.

Parameters

<i>path</i>	String for last name
-------------	----------------------

6.6.2.9 displayMenuLocation()

```
def menuMessages.displayMenuLocation (  
    loc )
```

Displays text for location menu (profile submenu) options.

Parameters

<i>path</i>	Tuple indicating location
-------------	---------------------------

6.6.2.10 displayMenuOrganisation()

```
def menuMessages.displayMenuOrganisation (  
    name )
```

Displays text for organisation menu (profile submenu) options.

Parameters

<i>path</i>	String for organisation name
-------------	------------------------------

6.6.2.11 displayMenuPhone()

```
def menuMessages.displayMenuPhone (
    phone )
```

Displays text for phone menu (profile submenu) options.

Parameters

<i>path</i>	String for phone number
-------------	-------------------------

6.6.2.12 displayMenuPlaceholder()

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

Displays text for unimplemented menu.

Parameters

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

6.6.2.13 displayMenuResume()

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

Displays text for resume menu options.

Parameters

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

6.6.2.14 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

6.6.2.15 displayMenuUniversity()

```
def menuMessages.displayMenuUniversity (
    name )
```

Displays text for university menu (profile submenu) options.

Parameters

<i>path</i>	String for university name
-------------	----------------------------

6.6.2.16 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)

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

General information about the user profile module that needs to be accessed in numerous places.

Variables

- dictionary `pDef.DEFAULT`
Dictionary of default variable states and if they need updating for use.
- list `pDef.MONTHS`
List of months for converting between number and string representations.

6.7.1 Detailed Description

General information about the user profile module that needs to be accessed in numerous places.

Author

Gavin Jameson

Date

Apr 2, 2022

6.7.2 Variable Documentation

6.7.2.1 DEFAULT

dictionary pDef.DEFAULT

Initial value:

```
1 = {
2     "keywords": ([], False),
3     "jobTitle": ("", True),
4     "site": ("glassdoor", False),
5     "firstName": ("", True),
6     "lastName": ("", True),
7     "email": ("", True),
8     "phone": ("", True),
9     "organisation": ("", False),
10    "resumePath": ("", True),
11    "socials": ([], False),
12    "location": ((), True),
13    "gradDate": ((), False),
14    "university": ("", False),
15    "autoLogin": (None, False) # not a boolean so changes can be detected, getter converts blank to False
16 }
```

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

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

6.7.2.2 MONTHS

list pDef.MONTHS

Initial value:

```
1 = [
2     "january",
3     "february",
4     "march",
5     "april",
6     "may",
7     "june",
8     "july",
9     "august",
10    "september",
11    "october",
12    "november",
13    "december"
14 ]
```

List of months for converting between number and string representations.

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

PDF Interpreter.

Classes

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

6.8.1 Detailed Description

PDF Interpreter.

Author

Sam Gorman

Date

Mar 17, 2022

6.9 /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.

6.9.1 Detailed Description

sites "dictionary"

Author

Gavin Jameson

Date

Mar 2, 2022

6.9.2 Function Documentation

6.9.2.1 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

6.9.3 Variable Documentation

6.9.3.1 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.

6.9.3.2 SITESLIST

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

List of strings indicating supported sites.

In order of implementation, arbitrarily chosen to be this way

6.10 /home/gab/repos/application_3xa3_l01_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.
- class [test.menuTest](#)
Allows manual tests for menu module.
- class [test.indeedTest](#)

6.10.1 Detailed Description

Testing for modules.

Author

Gavin Jameson

Date

Mar 23, 2022

6.11 /home/gab/repos/application_3xa3_l01_grp05/src/userProfile.py File Reference

user profile module

Classes

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

6.11.1 Detailed Description

user profile module

Author

Gavin Jameson

Date

Apr 2, 2022