CodeAnalysisTool

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Chapter 1

README

Alpha version of the Spint 1 software.

Contains the GUI implementation core of the application. GUI specification file is only local to this and shouldn't end up in the final application.

QUICK INSTALL:

1. python setup.py

Sami specific info:

I tried to make it a all as straightforward as possible for you with plenty of comments. I also added the .ui file if you wanted to donwload the qt designer and see the names of the widgets in more user friendly way, but the naming conventions should be pretty consistent. The whole funcitonality of the GUI is enclosed in UserInterface class you shouldn't really need anything else as far as I can tell. Most of it you won't have to touch you pretty much just need to bind the sonarqube button and maybe do something with with the progress bar to let the user know something is going on.

Relevant class variables:

self.run_sonar_button self.sonarqube_progress_group self.sonarqube_progress_bar self.sonarqube_status self.↩ repo_list[<repo index>=""><tools'] –interface to the git class methods

Chapter 2

Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

analysisParser 11
GitRepo 13
main 14
qtGUIsetup 16
run 16
setup 17
Sonar 18
sonarAPI 19
UserInterface 19

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

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

sonarAPI.API 21
Exception
  GitRepo.UrlException 42
    GitRepo.NoUrlSpecified 27
    GitRepo.WrongUrlFormat 47
  Sonar.SonarError 32
GitRepo.GitRepo 24
object
  qtGUIsetup.Ui_CodeAnalysisTool 33
    UserInterface.UserInterface 43
Sonar.Sonar 28

Chapter 4

Class Index

4.1 Class List

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

sonarAPI.API
Class for SonarQube web api public api includes: . . . 21
GitRepo.GitRepo
Class that provides all he neccessary funcitonality associated with git repos . . . 24
GitRepo.NoUrlSpecified . . . 27
Sonar.Sonar
Sonar . . . 28
Sonar.SonarError . . . 32
qtGUIsetup.Ui_CodeAnalysisTool . . . 33
GitRepo.UrlException . . . 42
UserInterface.UserInterface . . . 43
GitRepo.WrongUrlFormat . . . 47

Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

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/home/daniel/TampereUniversity/SoftwareEngMethod/project/GitRepo.py 49
/home/daniel/TampereUniversity/SoftwareEngMethod/project/main.py 50
/home/daniel/TampereUniversity/SoftwareEngMethod/project/qtGUIsetup.py 50
/home/daniel/TampereUniversity/SoftwareEngMethod/project/run.py 51
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/home/daniel/TampereUniversity/SoftwareEngMethod/project/Sonar.py 51
/home/daniel/TampereUniversity/SoftwareEngMethod/project/sonarAPI.py 52
/home/daniel/TampereUniversity/SoftwareEngMethod/project/UserInterface.py 52

Chapter 6

Namespace Documentation

6.1 analysisParser Namespace Reference

Functions

- def analysisParse (df, csv_name)

  analysisParse
- def analysisParseFile (json_file, csv_name='analysis.csv')

  analysisParseFile
- def analysisParseList (df_list, csv_name='analysis.csv')

  analysisParseList
- def analysisParseJson (json_string, csv_name='analysis.csv')

  analysisParseJson
- def analysisParseGit (git_info, csv_name='analysis_git.csv')

  analysisParseGit

Variables

- df = load(f)

6.1.1 Function Documentation

6.1.1.1 analysisParse()

```
def analysisParser.analysisParse (
              df,
              csv_name )
```

analysisParse

Makes a CSV file from the pandas dataframe

Parameters

df	The pandas dataframe
csv_name	Filename for output

6.1.1.2 analysisParseFile()

```
def analysisParser.analysisParseFile (
              json_file,
              csv_name = 'analysis.csv' )
```

analysisParseFile

Makes json file into pandas dataframe and passes it to analysisParse()

Parameters

json_file	The json as a .json file
csv_name	Filename for output

6.1.1.3 analysisParseGit()

```
def analysisParser.analysisParseGit (
              git_info,
              csv_name = 'analysis_git.csv' )
```

analysisParseGit

Takes the dict with git info and dumps it into .csv

Parameters

git_info	Dictionary with info
csv_name	Filename for output

6.1.1.4 analysisParseJson()

```
def analysisParser.analysisParseJson (
              json_string,
              csv_name = 'analysis.csv' )
```

analysisParseJson

Makes json string into pandas dataframe and passes it to analysisParse()

Parameters

json_string	Issues in JSON string
csv_name	Filename for output

6.1.1.5 analysisParseList()

```
def analysisParser.analysisParseList (
              df_list,
              csv_name = 'analysis.csv' )
```

analysisParseList

Makes list into pandas dataframe and passes it to analysisParse()

Parameters

df_list	List with issues
csv_name	Filename for output

6.1.2 Variable Documentation

6.1.2.1 df

```
analysisParser.df = load(f)
```

6.2 GitRepo Namespace Reference

Classes

- class GitRepo

  Class that provides all he neccessary funcitonality associated with git repos.
- class NoUrlSpecified
- class UrlException
- class WrongUrlFormat

Variables

- curr_work_dir = os.path.join(os.getcwd(), 'tmpRepo')
- list com_inf = [ ]
- repo_instance = GitRepo(curr_work_dir)

6.2.1 Variable Documentation

6.2.1.1 com_inf

```
list GitRepo.com_inf = []
```

6.2.1.2 curr_work_dir

```
GitRepo.curr_work_dir = os.path.join(os.getcwd(), 'tmpRepo')
```

6.2.1.3 repo_instance

```
GitRepo.repo_instance = GitRepo(curr_work_dir)
```

6.3 main Namespace Reference

Functions

- def wait (message, predicate, sleeptime=2, timeout=-1)

  Wait for a predicate to be true.
- def main (args)

Variables

- ap = argparse.ArgumentParser()
- action
- help
- metavar
- default
- nargs
- args = ap.parse_args()
- file

6.3.1 Function Documentation

6.3.1.1 main()

```
def main.main (
              args )
```

6.3.1.2 wait()

```
def main.wait (
              message,
              predicate,
              sleeptime = 2,
              timeout = -1 )
```

Wait for a predicate to be true.

Parameters

message	Message to show
predicate	Function that returns True, when the wait is over
sleeptime	Time in seconds to sleep between calls to predicate
timeout	Timeout in minutes (<= 0 is infinite), raises TimeoutException

6.3.2 Variable Documentation

6.3.2.1 action

```
main.action
```

6.3.2.2 ap

```
main.ap = argparse.ArgumentParser()
```

6.3.2.3 args

```
main.args = ap.parse_args()
```

6.3.2.4 default

```
main.default
```

6.3.2.5 file

```
main.file
```

6.3.2.6 help

```
main.help
```

6.3.2.7 metavar

```
main.metavar
```

6.3.2.8 nargs

```
main.nargs
```

6.4 qtGUIsetup Namespace Reference

Classes

- class Ui_CodeAnalysisTool

6.5 run Namespace Reference

Variables

- app = QtWidgets.QApplication(sys.argv)
- main_window = QtWidgets.QMainWindow()
- ui = UserInterface(main_window)

6.5.1 Variable Documentation

6.5.1.1 app

```
run.app = QtWidgets.QApplication(sys.argv)
```

6.5.1.2 main_window

```
run.main_window = QtWidgets.QMainWindow()
```

6.5.1.3 ui

```
run.ui = UserInterface(main_window)
```

6.6 setup Namespace Reference

Functions

- def installRequirements (req_file="requirements.txt")

  Will read file.

Variables

- string req_file = ''

6.6.1 Function Documentation

6.6.1.1 installRequirements()

```
def setup.installRequirements (
              req_file = "requirements.txt" )
```

Will read file.

6.6.2 Variable Documentation

6.6.2.1 req_file

```
setup.req_file = ''
```

6.7 Sonar Namespace Reference

Classes

- class Sonar
  Sonar.
- class SonarError

Variables

- tuple auth_test = ('admin', 'admin')
- string url_test = '127.0.0.1'
- int port_test = 9000
- sonarObject = Sonar()

6.7.1 Variable Documentation

6.7.1.1 auth_test

```
tuple Sonar.auth_test = ('admin', 'admin')
```

6.7.1.2 port_test

```
int Sonar.port_test = 9000
```

6.7.1.3 sonarObject

```
Sonar.sonarObject = Sonar()
```

6.7.1.4 url_test

```
string Sonar.url_test = '127.0.0.1'
```

6.8 sonarAPI Namespace Reference

Classes

- class API

  Class for SonarQube web api public api includes:

Variables

- api = API()

6.8.1 Variable Documentation

6.8.1.1 api

```
sonarAPI.api = API()
```

6.9 UserInterface Namespace Reference

Classes

- class UserInterface

Chapter 7

Class Documentation

7.1 sonarAPI.API Class Reference

Class for SonarQube web api public api includes:

Public Member Functions

- def __init__ (self, url='http://127.0.0.1:9000', auth=('admin', 'admin'))
- def pagesize (self)
- def pagesize (self, val)
- def get (self, path, key, parser, params=None)
- def delete_project (self, project_key)

  Delete existing project.
- def projects (self)

  search project keys for all analysed projects
- def issues (self, project=None)

  search issues for projects

Public Attributes

- url
- auth
- ps

7.1.1 Detailed Description

Class for SonarQube web api public api includes:

- issues
- projects
- delete_project

7.1.2 Constructor & Destructor Documentation

7.1.2.1 __init__()

```
def sonarAPI.API.__init__ (
              self,
              url = 'http://127.0.0.1:9000',
              auth = ('admin', 'admin') )
```

Parameters

url	Url of the running SonarQube instance
auth	Authorisation for the SonarQube instance

7.1.3 Member Function Documentation

7.1.3.1 delete_project()

```
def sonarAPI.API.delete_project (
              self,
              project_key )
```

Delete existing project.

Parameters

project_key	Project to delete

Returns

whether the response was ok

7.1.3.2 get()

```
def sonarAPI.API.get (
              self,
              path,
              key,
              parser,
              params = None )
```

7.1.3.3 issues()

```
def sonarAPI.API.issues (
              self,
              project = None )
```

search issues for projects

Parameters

project	The project key for which issues are wanted

Returns

Generator of issues

7.1.3.4 pagesize() [1/2]

```
def sonarAPI.API.pagesize (
              self )
```

7.1.3.5 pagesize() [2/2]

```
def sonarAPI.API.pagesize (
              self,
              val )
```

7.1.3.6 projects()

```
def sonarAPI.API.projects (
              self )
```

search project keys for all analysed projects

Returns

Generator of project keys as string

Parameters

auth	Authorisation for the SonarQube instance

7.1.4 Member Data Documentation

7.1.4.1 auth

`sonarAPI.API.auth`

7.1.4.2 ps

`sonarAPI.API.ps`

7.1.4.3 url

`sonarAPI.API.url`

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

- /home/daniel/TampereUniversity/SoftwareEngMethod/project/sonarAPI.py

7.2 GitRepo.GitRepo Class Reference

Class that provides all he neccessary funcitonality associated with git repos.

Public Member Functions

- def __init__ (self, work_dir=curr_work_dir)
  creates empty repository, pulled repositories will be stored here
- def pullRepoContents (self, remote_url=None, username=None, password=None)
  Downloads the repo contents.
- def getCommitData (self)
  Returns the dictionary with all the neccessary information.
- def changeBranch (self, branch)
- def getBranches (self)
  Returns the list of all banches in the repo.

Public Attributes

- work_dir
- repo_url
- filled_repo
- commit_handle
- branches

7.2.1 Detailed Description

Class that provides all he neccessary funcitonality associated with git repos.

7.2.2 Constructor & Destructor Documentation

7.2.2.1 __init__()

```
def GitRepo.GitRepo.__init__ (
              self,
              work_dir = curr_work_dir )
```

creates empty repository, pulled repositories will be stored here

7.2.3 Member Function Documentation

7.2.3.1 changeBranch()

```
def GitRepo.GitRepo.changeBranch (
              self,
              branch )
```

Parameters

in	*branch*	Name of the branch that you want to switch to

See also

getBranches() method

7.2.3.2 getBranches()

```
def GitRepo.GitRepo.getBranches (
              self )
```

Returns the list of all banches in the repo.

7.2.3.3 getCommitData()

```
def GitRepo.GitRepo.getCommitData (
              self )
```

Returns the dictionary with all the neccessary information.

Note

Merge allways returns empty list because I don't know what else to do there

7.2.3.4 pullRepoContents()

```
def GitRepo.GitRepo.pullRepoContents (
              self,
              remote_url = None,
              username = None,
              password = None )
```

Downloads the repo contents.

Parameters

remote_url	Reporsitory url (by default this is None)
username	Needed in case of pass protected repo
password	Needed in case of pass protected repo

Returns

True if repo pulled successfuly, False otherwise

The method will check if the repostitory is in valid format and create workRepo with contents of the user specified directory. If the repo is password protected it will request user input (password can also be specified as input arg).

7.2.4 Member Data Documentation

7.2.4.1 branches

```
GitRepo.GitRepo.branches
```

7.2.4.2 commit_handle

GitRepo.GitRepo.commit_handle

7.2.4.3 filled_repo

GitRepo.GitRepo.filled_repo

7.2.4.4 repo_url

GitRepo.GitRepo.repo_url

7.2.4.5 work_dir

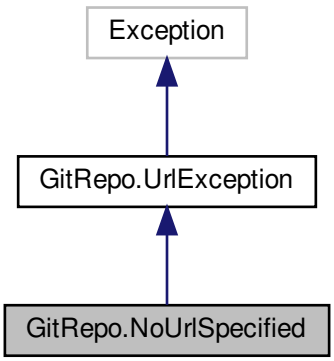
GitRepo.GitRepo.work_dir

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

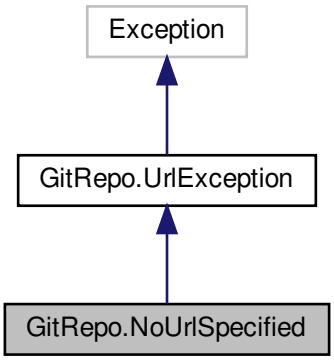
- /home/daniel/TampereUniversity/SoftwareEngMethod/project/GitRepo.py

7.3 GitRepo.NoUrlSpecified Class Reference

Inheritance diagram for GitRepo.NoUrlSpecified:



Collaboration diagram for GitRepo.NoUrlSpecified:



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

- /home/daniel/TampereUniversity/SoftwareEngMethod/project/GitRepo.py

7.4 Sonar.Sonar Class Reference

Sonar.

Public Member Functions

- def __init__ (self, sonarQubeImg='sonarqube', sonarScannerImg='vesakoskela/sonar-scanner-maven', host='127.0.0.1', port=9000, auth=('admin', 'admin'))

  The Constructor.
- def startSonarQube (self)

  startSonarQube
- def stopSonarQube (self)

  stopSonarQube
- def isSonarQubeRunning (self)

  isSonarQubeRunning
- def runSonarScanner (self, directory, params)

  runSonarScanner

Public Attributes

- sonarQubeImg
- sonarScannerImg
- dockerClient
- sonarQubeContainer
- sonarQubeRunning
- sonarScannerContainer
- host
- port
- url
- auth

7.4.1 Detailed Description

Sonar.

class for handling SonarQube and SonarScanner for Maven

7.4.2 Constructor & Destructor Documentation

7.4.2.1 __init__()

```
def Sonar.Sonar.__init__ (
              self,
              sonarQubeImg = 'sonarqube',
              sonarScannerImg = 'vesakoskela/sonar-scanner-maven',
              host = '127.0.0.1',
              port = 9000,
              auth = ('admin', 'admin') )
```

The Constructor.

Parameters

sonarQubeImg	is the Docker image for SonarQube server
sonarScannerImg	is the Docker image for sonarScanner
host	is ip adrress for the SonarQube server
port	is port number for SonarQube server is login credentials for SonarQube server

7.4.3 Member Function Documentation

7.4.3.1 isSonarQubeRunning()

```
def Sonar.Sonar.isSonarQubeRunning (
              self )
```

isSonarQubeRunning

Method for checking if SonarQube server is up

Returns

True only when SonarQube server HTTP response is 200 This method is for purpose of waiting until Sonar↩ Qube server is up and running.

7.4.3.2 runSonarScanner()

```
def Sonar.Sonar.runSonarScanner (
              self,
              directory,
              params )
```

runSonarScanner

Method for running SonarScanner for Maven.

Parameters

directory	is the directory of the Java project
∗*params*	is maven commands which are executed. 'mvn' is already included. Eg. if you want to run "mvn clean verify sonar:sonar", call runSonarScanner(directory, "clean", "verify", "sonar:sonar")

Returns

SonarError if errors occured.

7.4.3.3 startSonarQube()

```
def Sonar.Sonar.startSonarQube (
              self )
```

startSonarQube

Method for starting sonarQube docker container

Returns

SonarError if exceptions occured SonarQube server is not necessarily responding after calling this method returns. Use isSonarQubeRunning to check if it's up.

7.4.3.4 stopSonarQube()

```
def Sonar.Sonar.stopSonarQube (
              self )
```

stopSonarQube

Method for stopping SonarQube

Returns

SonarError if errors occured Stops SonarQube docker container and removes it. SonarQube server docker container should be still stopped and removed even if errors are returned.

7.4.4 Member Data Documentation

7.4.4.1 auth

Sonar.Sonar.auth

7.4.4.2 dockerClient

Sonar.Sonar.dockerClient

7.4.4.3 host

Sonar.Sonar.host

7.4.4.4 port

Sonar.Sonar.port

7.4.4.5 sonarQubeContainer

Sonar.Sonar.sonarQubeContainer

7.4.4.6 sonarQubeImg

Sonar.Sonar.sonarQubeImg

7.4.4.7 sonarQubeRunning

Sonar.Sonar.sonarQubeRunning

7.4.4.8 sonarScannerContainer

```
Sonar.Sonar.sonarScannerContainer
```

7.4.4.9 sonarScannerImg

```
Sonar.Sonar.sonarScannerImg
```

7.4.4.10 url

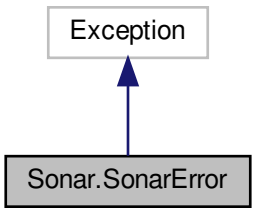
```
Sonar.Sonar.url
```

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

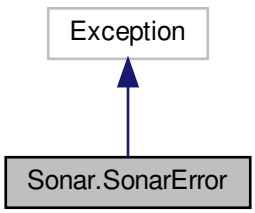
- /home/daniel/TampereUniversity/SoftwareEngMethod/project/Sonar.py

7.5 Sonar.SonarError Class Reference

Inheritance diagram for Sonar.SonarError:



Collaboration diagram for Sonar.SonarError:



Public Member Functions

- def __init__ (self, message="SonarError")

Public Attributes

- message

7.5.1 Constructor & Destructor Documentation

7.5.1.1 __init__()

```
def Sonar.SonarError.__init__ (
              self,
              message = "SonarError" )
```

7.5.2 Member Data Documentation

7.5.2.1 message

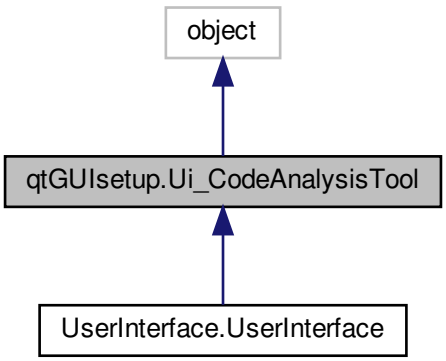
```
Sonar.SonarError.message
```

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

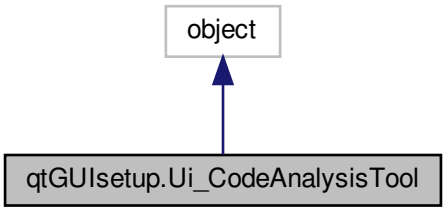
- /home/daniel/TampereUniversity/SoftwareEngMethod/project/Sonar.py

7.6 qtGUIsetup.Ui_CodeAnalysisTool Class Reference

Inheritance diagram for qtGUIsetup.Ui_CodeAnalysisTool:



Collaboration diagram for qtGUIsetup.Ui_CodeAnalysisTool:



Public Member Functions

- def setupUi (self, CodeAnalysisTool)
- def retranslateUi (self, CodeAnalysisTool)

Public Attributes

- centralwidget
- repo_screen_butt
- line
- sonar_screen_butt
- line_2
- cs_screen_butt
- pmd_screen_butt
- line_3
- line_4
- settings_screen_butt
- stackedWidget
- page
- git_repo_input
- git_repo_input_submit
- label
- branch_selector
- label_2
- line_7
- repo_info
- page_2
- run_sonar_button
- sonarqube_progress_group
- sonarqube_progress_bar
- sonarqube_status
- page_3
- run_cs_button
- cs_progress_group
- cs_progress_bar
- cs_status

- page_4
- run_pmd_button
- pmd_progress_group
- pmd_progress_bar
- pmd_status
- page_5
- sonar_save_dir_input
- sonar_save_dirsel
- cs_save_dir_input
- cs_save_dirsel
- pmd_save_dir_input
- pmd_save_dirsel
- repo_save_enable_butt
- repo_save_dir
- repo_save_dirsel
- tabWidget
- repo1_tab
- repo2_tab
- repo3_tab
- repo4_tab
- repo5_tab

7.6.1 Member Function Documentation

7.6.1.1 retranslateUi()

```
def qtGUIsetup.Ui_CodeAnalysisTool.retranslateUi (
              self,
              CodeAnalysisTool )
```

7.6.1.2 setupUi()

```
def qtGUIsetup.Ui_CodeAnalysisTool.setupUi (
              self,
              CodeAnalysisTool )
```

7.6.2 Member Data Documentation

7.6.2.1 branch_selector

```
qtGUIsetup.Ui_CodeAnalysisTool.branch_selector
```

7.6.2.2 centralwidget

qtGUIsetup.Ui_CodeAnalysisTool.centralwidget

7.6.2.3 cs_progress_bar

qtGUIsetup.Ui_CodeAnalysisTool.cs_progress_bar

7.6.2.4 cs_progress_group

qtGUIsetup.Ui_CodeAnalysisTool.cs_progress_group

7.6.2.5 cs_save_dir_input

qtGUIsetup.Ui_CodeAnalysisTool.cs_save_dir_input

7.6.2.6 cs_save_dirsel

qtGUIsetup.Ui_CodeAnalysisTool.cs_save_dirsel

7.6.2.7 cs_screen_butt

qtGUIsetup.Ui_CodeAnalysisTool.cs_screen_butt

7.6.2.8 cs_status

qtGUIsetup.Ui_CodeAnalysisTool.cs_status

7.6.2.9 git_repo_input

qtGUIsetup.Ui_CodeAnalysisTool.git_repo_input

7.6.2.10 git_repo_input_submit

qtGUIsetup.Ui_CodeAnalysisTool.git_repo_input_submit

7.6.2.11 label

qtGUIsetup.Ui_CodeAnalysisTool.label

7.6.2.12 label_2

qtGUIsetup.Ui_CodeAnalysisTool.label_2

7.6.2.13 line

qtGUIsetup.Ui_CodeAnalysisTool.line

7.6.2.14 line_2

qtGUIsetup.Ui_CodeAnalysisTool.line_2

7.6.2.15 line_3

qtGUIsetup.Ui_CodeAnalysisTool.line_3

7.6.2.16 line_4

qtGUIsetup.Ui_CodeAnalysisTool.line_4

7.6.2.17 line_7

qtGUIsetup.Ui_CodeAnalysisTool.line_7

7.6.2.18 page

qtGUIsetup.Ui_CodeAnalysisTool.page

7.6.2.19 page_2

qtGUIsetup.Ui_CodeAnalysisTool.page_2

7.6.2.20 page_3

qtGUIsetup.Ui_CodeAnalysisTool.page_3

7.6.2.21 page_4

qtGUIsetup.Ui_CodeAnalysisTool.page_4

7.6.2.22 page_5

qtGUIsetup.Ui_CodeAnalysisTool.page_5

7.6.2.23 pmd_progress_bar

qtGUIsetup.Ui_CodeAnalysisTool.pmd_progress_bar

7.6.2.24 pmd_progress_group

qtGUIsetup.Ui_CodeAnalysisTool.pmd_progress_group

7.6.2.25 pmd_save_dir_input

qtGUIsetup.Ui_CodeAnalysisTool.pmd_save_dir_input

7.6.2.26 pmd_save_dirsel

```
qtGUIsetup.Ui_CodeAnalysisTool.pmd_save_dirsel
```

7.6.2.27 pmd_screen_butt

```
qtGUIsetup.Ui_CodeAnalysisTool.pmd_screen_butt
```

7.6.2.28 pmd_status

```
qtGUIsetup.Ui_CodeAnalysisTool.pmd_status
```

7.6.2.29 repo1_tab

```
qtGUIsetup.Ui_CodeAnalysisTool.repo1_tab
```

7.6.2.30 repo2_tab

```
qtGUIsetup.Ui_CodeAnalysisTool.repo2_tab
```

7.6.2.31 repo3_tab

```
qtGUIsetup.Ui_CodeAnalysisTool.repo3_tab
```

7.6.2.32 repo4_tab

```
qtGUIsetup.Ui_CodeAnalysisTool.repo4_tab
```

7.6.2.33 repo5_tab

```
qtGUIsetup.Ui_CodeAnalysisTool.repo5_tab
```

7.6.2.34 repo_info

qtGUIsetup.Ui_CodeAnalysisTool.repo_info

7.6.2.35 repo_save_dir

qtGUIsetup.Ui_CodeAnalysisTool.repo_save_dir

7.6.2.36 repo_save_dirsel

qtGUIsetup.Ui_CodeAnalysisTool.repo_save_dirsel

7.6.2.37 repo_save_enable_butt

qtGUIsetup.Ui_CodeAnalysisTool.repo_save_enable_butt

7.6.2.38 repo_screen_butt

qtGUIsetup.Ui_CodeAnalysisTool.repo_screen_butt

7.6.2.39 run_cs_button

qtGUIsetup.Ui_CodeAnalysisTool.run_cs_button

7.6.2.40 run_pmd_button

qtGUIsetup.Ui_CodeAnalysisTool.run_pmd_button

7.6.2.41 run_sonar_button

qtGUIsetup.Ui_CodeAnalysisTool.run_sonar_button

7.6.2.42 settings_screen_butt

qtGUIsetup.Ui_CodeAnalysisTool.settings_screen_butt

7.6.2.43 sonar_save_dir_input

qtGUIsetup.Ui_CodeAnalysisTool.sonar_save_dir_input

7.6.2.44 sonar_save_dirsel

qtGUIsetup.Ui_CodeAnalysisTool.sonar_save_dirsel

7.6.2.45 sonar_screen_butt

qtGUIsetup.Ui_CodeAnalysisTool.sonar_screen_butt

7.6.2.46 sonarqube_progress_bar

qtGUIsetup.Ui_CodeAnalysisTool.sonarqube_progress_bar

7.6.2.47 sonarqube_progress_group

qtGUIsetup.Ui_CodeAnalysisTool.sonarqube_progress_group

7.6.2.48 sonarqube_status

qtGUIsetup.Ui_CodeAnalysisTool.sonarqube_status

7.6.2.49 stackedWidget

qtGUIsetup.Ui_CodeAnalysisTool.stackedWidget

7.6.2.50 tabWidget

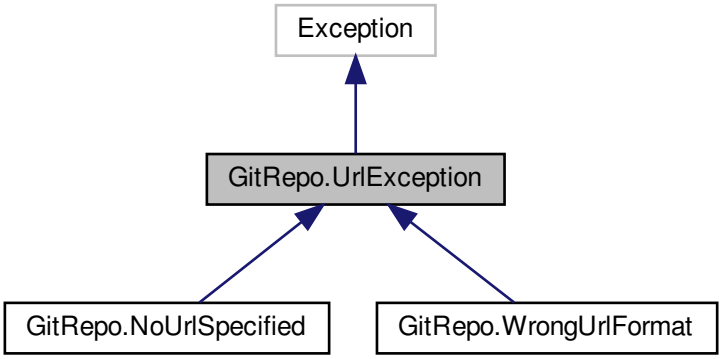
`qtGUIsetup.Ui_CodeAnalysisTool.tabWidget`

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

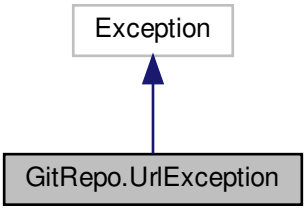
- /home/daniel/TampereUniversity/SoftwareEngMethod/project/qtGUIsetup.py

7.7 GitRepo.UrlException Class Reference

Inheritance diagram for GitRepo.UrlException:



Collaboration diagram for GitRepo.UrlException:

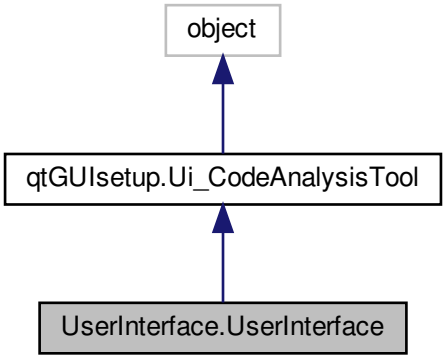


The documentation for this class was generated from the following file:

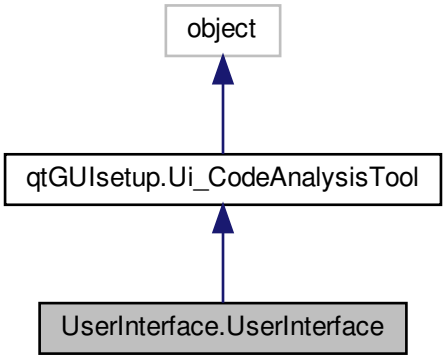
- /home/daniel/TampereUniversity/SoftwareEngMethod/project/GitRepo.py

7.8 UserInterface.UserInterface Class Reference

Inheritance diagram for UserInterface.UserInterface:



Collaboration diagram for UserInterface.UserInterface:



Public Member Functions

- def __init__ (self, CodeAnalysisTool)
- def bindActiveWidgets (self)

  Binds widgets to the methods that process inputs.
- def switchBranch (self)

  Called when user changes branches in the dropdown menu.
- def switchRepoContext (self, repo_idx)

  Called when the user switches between the top tabs.

- def readRepoUrl (self)

  Gets called only once for every repository Currently it is not possible to load a different repository once we load something.
- def analyseSonar (self)

  analyseSonar
- def menuScreenSel (self, index)

  Used to switch between user views (repo,)
- def docBrowser (self, idx)

  Standard document browser and sets the info field with the chosen path
- def prettyDict (self, some_dict)

  Used to print dict contents into information field in a resonably nice way.
- def cleanup (self)

  Runs on exit and cleans workspace.

Public Attributes

- active_repo

7.8.1 Constructor & Destructor Documentation

7.8.1.1 __init__()

```
def UserInterface.UserInterface.__init__ (
              self,
              CodeAnalysisTool )
```

7.8.2 Member Function Documentation

7.8.2.1 analyseSonar()

```
def UserInterface.UserInterface.analyseSonar (
              self )
```

analyseSonar

Takes parameters from GUI and runs the current(14.2.) main function with them

Literally copypasta from current(14.2.) main and changed command line parameters to the GUI ones. NOTE: This could be done in a separate module to be used by both, main and GUI.

7.8.2.2 bindActiveWidgets()

```
def UserInterface.UserInterface.bindActiveWidgets (
              self )
```

Binds widgets to the methods that process inputs.

7.8.2.3 cleanup()

```
def UserInterface.UserInterface.cleanup (
              self )
```

Runs on exit and cleans workspace.

7.8.2.4 docBrowser()

```
def UserInterface.UserInterface.docBrowser (
              self,
              idx )
```

Standard document browser and sets the info field with the chosen path

Parameters

idx	Index determines where the data loaded will be saved

7.8.2.5 menuScreenSel()

```
def UserInterface.UserInterface.menuScreenSel (
              self,
              index )
```

Used to switch between user views (repo,)

Parameters

index	Number representing the menu screen

7.8.2.6 prettyDict()

```
def UserInterface.UserInterface.prettyDict (
```

```
                self,
                some_dict )
```

Used to print dict contents into information field in a resonably nice way.

Parameters

some_dict	Any dictionary to be 'prettyfied'

Note

could probably just be used as private method

7.8.2.7 readRepoUrl()

```
def UserInterface.UserInterface.readRepoUrl (
                self )
```

Gets called only once for every repository Currently it is not possible to load a different repository once we load something.

7.8.2.8 switchBranch()

```
def UserInterface.UserInterface.switchBranch (
                self )
```

Called when user changes branches in the dropdown menu.

7.8.2.9 switchRepoContext()

```
def UserInterface.UserInterface.switchRepoContext (
                self,
                repo_idx )
```

Called when the user switches between the top tabs.

Parameters

repo_idx	Index specifying which repo needs to be displayed

7.8.3 Member Data Documentation

7.8.3.1 active_repo

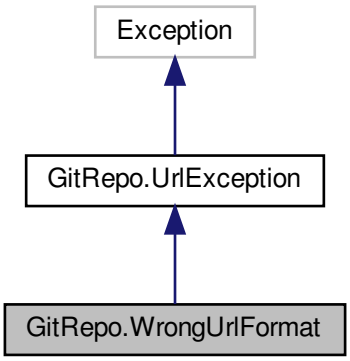
`UserInterface.UserInterface.active_repo`

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

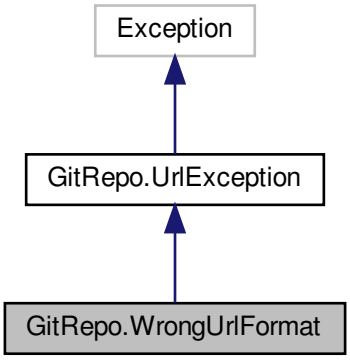
- /home/daniel/TampereUniversity/SoftwareEngMethod/project/UserInterface.py

7.9 GitRepo.WrongUrlFormat Class Reference

Inheritance diagram for GitRepo.WrongUrlFormat:



Collaboration diagram for GitRepo.WrongUrlFormat:



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

- /home/daniel/TampereUniversity/SoftwareEngMethod/project/GitRepo.py

Chapter 8

File Documentation

8.1 /home/daniel/TampereUniversity/SoftwareEngMethod/project/analysisParser.py File Reference

Namespaces

- analysisParser

Functions

- def analysisParser.analysisParse (df, csv_name)
  analysisParse
- def analysisParser.analysisParseFile (json_file, csv_name='analysis.csv')
  analysisParseFile
- def analysisParser.analysisParseList (df_list, csv_name='analysis.csv')
  analysisParseList
- def analysisParser.analysisParseJson (json_string, csv_name='analysis.csv')
  analysisParseJson
- def analysisParser.analysisParseGit (git_info, csv_name='analysis_git.csv')
  analysisParseGit

Variables

- analysisParser.df = load(f)

8.2 /home/daniel/TampereUniversity/SoftwareEngMethod/project/GitRepo.py File Reference

Classes

- class GitRepo.GitRepo
  Class that provides all he neccessary funcitonality associated with git repos.
- class GitRepo.UrlException
- class GitRepo.NoUrlSpecified
- class GitRepo.WrongUrlFormat

Namespaces

- GitRepo

Variables

- GitRepo.curr_work_dir = os.path.join(os.getcwd(), 'tmpRepo')
- list GitRepo.com_inf = [ ]
- GitRepo.repo_instance = GitRepo(curr_work_dir)

8.3 /home/daniel/TampereUniversity/SoftwareEngMethod/project/main.py File Reference

Namespaces

- main

Functions

- def main.wait (message, predicate, sleeptime=2, timeout=-1)

  Wait for a predicate to be true.
- def main.main (args)

Variables

- main.ap = argparse.ArgumentParser()
- main.action
- main.help
- main.metavar
- main.default
- main.nargs
- main.args = ap.parse_args()
- main.file

8.4 /home/daniel/TampereUniversity/SoftwareEngMethod/project/qtGUIsetup.py File Reference

Classes

- class qtGUIsetup.Ui_CodeAnalysisTool

Namespaces

- qtGUIsetup

8.5 /home/daniel/TampereUniversity/SoftwareEngMethod/project/README.md File Reference

8.6 /home/daniel/TampereUniversity/SoftwareEngMethod/project/run.py File Reference

Namespaces

- run

Variables

- run.app = QtWidgets.QApplication(sys.argv)
- run.main_window = QtWidgets.QMainWindow()
- run.ui = UserInterface(main_window)

8.7 /home/daniel/TampereUniversity/SoftwareEngMethod/project/setup.py File Reference

Namespaces

- setup

Functions

- def setup.installRequirements (req_file="requirements.txt")

  Will read file.

Variables

- string setup.req_file = ''

8.8 /home/daniel/TampereUniversity/SoftwareEngMethod/project/Sonar.py File Reference

Classes

- class Sonar.SonarError
- class Sonar.Sonar

  Sonar.

Namespaces

- Sonar

Variables

- tuple Sonar.auth_test = ('admin', 'admin')
- string Sonar.url_test = '127.0.0.1'
- int Sonar.port_test = 9000
- Sonar.sonarObject = Sonar()

8.9 /home/daniel/TampereUniversity/SoftwareEngMethod/project/sonarAPI.py File Reference

Classes

- class sonarAPI.API

  Class for SonarQube web api public api includes:

Namespaces

- sonarAPI

Variables

- sonarAPI.api = API()

8.10 /home/daniel/TampereUniversity/SoftwareEngMethod/project/UserInterface.py File Reference

Classes

- class UserInterface.UserInterface

Namespaces

- UserInterface

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