

Acad-Hub

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Chapter 1

Namespace Index

1.1 Namespace List

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

bookLending	7
details	7
exam	8
notes	11
project	11
testing	12
tools	13
webcrawler	13

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

TestCase	
testing.unitTester	31
Window	
project.MainBox	17
project.MainNotebook	19
BeautifulSoup	
depFinder	
downloadFile	
GdkPixbuf	
getCourseBooks	
gmtime	
GObject	
Gtk	
json	
libgenSearch	
librarySearch	
listTT	
listUploads	
os	
project	
rateFile	
requests	
sanitize_phone_number	
sanitize_roll_number	
semFinder	
showBooks	
strftime	
string	
time	
unittest	
uploadFile	
webbrowser	

Chapter 3

Class Index

3.1 Class List

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

project.MainBox	17
project.MainNotebook	19
testing.unitTester	31

Chapter 4

Namespace Documentation

4.1 bookLending Namespace Reference

Functions

- def `lendBook` (roll, contact, course, book)
- def `listLenders` (course, book)
- def `deleteLender` (roll, course, book)

4.1.1 Detailed Description

```
@package docstring
Documentation for this module.
```

```
This module has functions to fetch and update book lenders' list.
```

4.1.2 Function Documentation

4.1.2.1 `def bookLending.deleteLender (roll, course, book)`

```
Function to remove the entry from the lenders database
```

4.1.2.2 `def bookLending.lendBook (roll, contact, course, book)`

```
Function that completes the lending process of a book.
Takes input the roll number, contact number, course and book and stores the info on the database
```

4.1.2.3 `def bookLending.listLenders (course, book)`

```
Function to return the roll number and contact number of all the lenders of a given book
```

4.2 details Namespace Reference

Functions

- def `semFinder` (roll)
- def `depFinder` (roll)

4.2.1 Detailed Description

```
@package docstring
Documentation for this module.
```

This module has functions to find the semester and department from roll number.

4.2.2 Function Documentation

4.2.2.1 `def details.depFinder (roll)`

Function to parse the roll number and get department

4.2.2.2 `def details.semFinder (roll)`

Function to parse the roll number and get semester

4.3 exam Namespace Reference

Functions

- `def sortfunc (a)`
- `def splitAndJoin (text)`
- `def getDate (rows, j)`
- `def findDate (rows, i)`
- `def getRoom (course, rows, i)`
- `def examtt (courses)`
- `def listTT (dept, sem)`

4.3.1 Detailed Description

```
@package docstring
Documentation for this module.
```

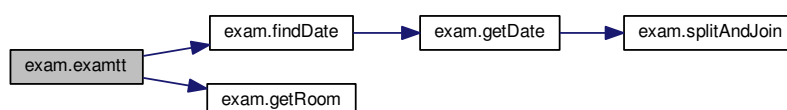
A Module to fetch the exam time table of the student

4.3.2 Function Documentation

4.3.2.1 `def exam.examtt (courses)`

A method to extract the exam time table of various courses in the course list

Here is the call graph for this function:



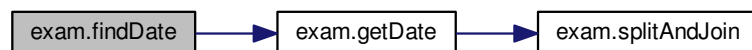
Here is the caller graph for this function:



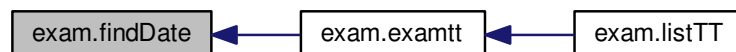
4.3.2.2 `def exam.findDate (rows, i)`

A method to iterate through the columns and get to the column date

Here is the call graph for this function:



Here is the caller graph for this function:



4.3.2.3 `def exam.getDate (rows, j)`

A method to get the date of the exam

Here is the call graph for this function:



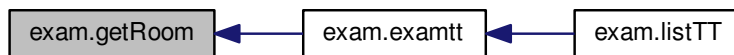
Here is the caller graph for this function:



4.3.2.4 `def exam.getRoom (course, rows, i)`

A method that gets the room allocated for the particular exam

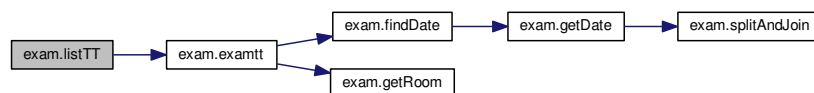
Here is the caller graph for this function:



4.3.2.5 `def exam.listTT (dept, sem)`

A method that returns the exam time table the courses in the specified format

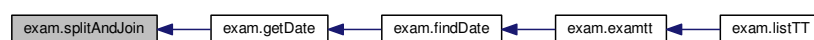
Here is the call graph for this function:



4.3.2.6 `def exam.splitAndJoin (text)`

Function that returns a string formed after replacing all the white spaces of the given input string(text) with

Here is the caller graph for this function:



4.4 notes Namespace Reference

Functions

- def [uploadFile](#) (file, roll, course)
- def [listUploads](#) (course)
- def [rateFile](#) (filename, course, roll, ratingold, ratingnew)
- def [downloadFile](#) (filename, filepath, course, roll, rating)

4.4.1 Detailed Description

```
@package docstring
Documentation for this module.
```

This module has functions to upload, list and download files.

4.4.2 Function Documentation

4.4.2.1 def notes.downloadFile (filename, filepath, course, roll, rating)

Function to download a given file from the server.
Input is filename, location(where to be downloaded), course, roll number and rating of the file.

4.4.2.2 def notes.listUploads (course)

Function to list all the uploaded notes for a given input course

4.4.2.3 def notes.rateFile (filename, course, roll, ratingold, ratingnew)

Function to rate a given file.
Updates the rating of the given file by taking inputs as the filename, course, roll number(of the uploader), old rating and the selected rating by the user.

4.4.2.4 def notes.uploadFile (file, roll, course)

Function to upload a given file to the server.
Input is file location, roll number and course.

4.5 project Namespace Reference

Classes

- class [MainBox](#)
- class [MainNotebook](#)

Functions

- def [stripAll](#) (text)
- def [displayResult](#) (dept, sem, roll)

Variables

- tuple **win** = [MainBox\(\)](#)

4.5.1 Detailed Description

```
@package docstring
Documentation for this module.
Main Window Module
```

4.5.2 Function Documentation

4.5.2.1 `def project.displayResult (dept, sem, roll)`

A function to display the main window to display results

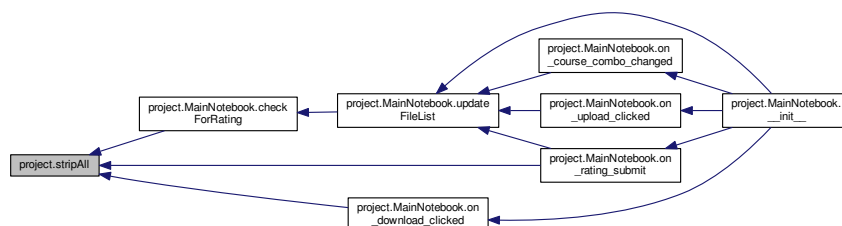
Here is the caller graph for this function:



4.5.2.2 `def project.stripAll (text)`

A function to strip all text

Here is the caller graph for this function:



4.6 testing Namespace Reference

Classes

- class [unitTester](#)

4.6.1 Detailed Description

```
@package docstring
Documentation for this module.

Testing Module
```

4.7 tools Namespace Reference

Functions

- def [sanitize_roll_number](#) (roll)
- def [sanitize_phone_number](#) (phone)

4.7.1 Detailed Description

```
@package docstring
Documentation for this module.

This module has functions to sanitize inputs
```

4.7.2 Function Documentation

4.7.2.1 def tools.sanitize_phone_number (*phone*)

Function to check if the entered string is a valid phone number.

4.7.2.2 def tools.sanitize_roll_number (*roll*)

Function to check if the entered string is a valid roll number.

4.8 webcrawler Namespace Reference

Functions

- def [stripAll](#) (text)
- def [splitAndJoin](#) (text)
- def [removePunc](#) (text)
- def [getFirstAuthor](#) (text)
- def [getBooks](#) (row)
- def [getCourseBooks](#) (courses, soup)
- def [showBooks](#)

4.8.1 Detailed Description

```
@package docstring
Documentation for this module.

This module has functions to fetch book details.
```

4.8.2 Function Documentation

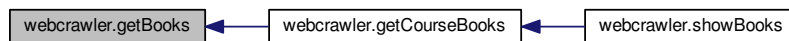
4.8.2.1 `def webcrawler.getBooks (row)`

Given a row that contains info about some course,
function returns the relevant rows of the table that contain all that course's books and reference texts
Input is a soup object containing a row of a HTML table.
Returns a pair of lists. First item of the pair contains list of books in the given row and second item contains

Here is the call graph for this function:



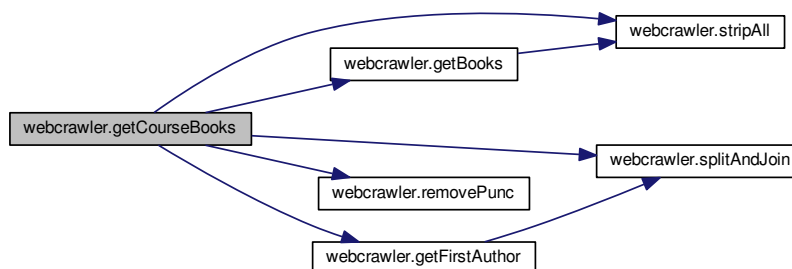
Here is the caller graph for this function:



4.8.2.2 `def webcrawler.getCourseBooks (courses, soup)`

Function to get all the books for the courses in the courses list along with their authors, publications, library
Input is a course list and a BeautifulSoup object.
Returns a list of tuples. Every tuple contains course, course code, title of book, author, publications, library

Here is the call graph for this function:



Here is the caller graph for this function:



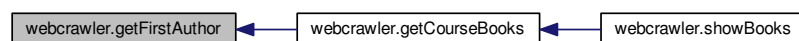
4.8.2.3 `def webcrawler.getFirstAuthor (text)`

For searching in institute library, get only the first author.
Given a string containing all the authors of a book, function returns only the first author.

Here is the call graph for this function:



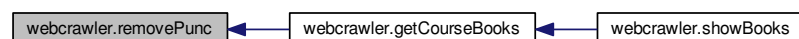
Here is the caller graph for this function:



4.8.2.4 `def webcrawler.removePunc (text)`

Function that returns a string formed after removing punctuations and "and" in the text

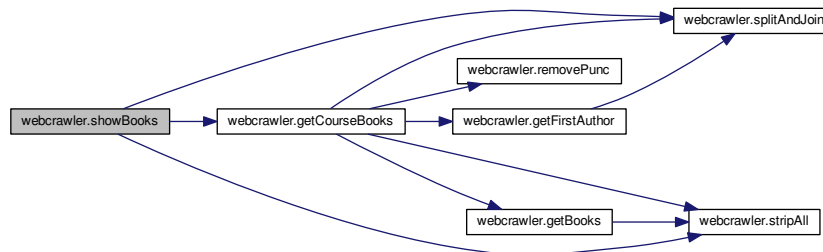
Here is the caller graph for this function:



4.8.2.5 `def webcrawler.showBooks (dept, sem, find = "books")`

if find is "courses", function returns info of courses as per to the given department and semester.
Returns a dictionary (with course names as keys) of dictionaries (with course codes, L, T, P, C as keys)
if find is "books", function returns a list of all books with their info as returned from `getCourseBooks` function

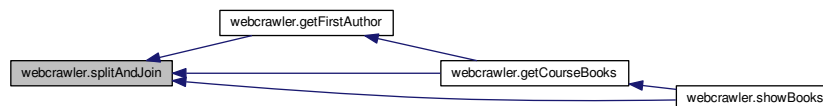
Here is the call graph for this function:



4.8.2.6 `def webcrawler.splitAndJoin (text)`

Function that returns a string formed after replacing all the white spaces of the given input string (text) with underscores.

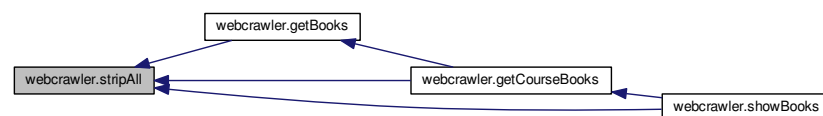
Here is the caller graph for this function:



4.8.2.7 `def webcrawler.stripAll (text)`

Function that returns a string formed after removing all the white spaces in the text

Here is the caller graph for this function:

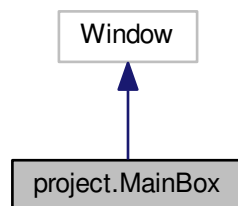


Chapter 5

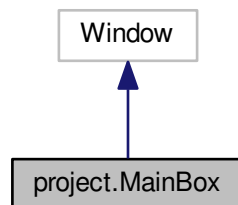
Class Documentation

5.1 project.MainBox Class Reference

Inheritance diagram for project.MainBox:



Collaboration diagram for project.MainBox:



Public Member Functions

- def `__init__` (self)
- def `acceptButtonClicked` (self, widget)

- def `buttonClicked` (self, widget)

Public Attributes

- `v2box`
- `v3box`
- `entry`
- `label`
- `DisclaimerLabel`
- `Disclaimer`
- `acceptButton`
- `declineButton`
- `roll`
- `sem`
- `dept`

5.1.1 Detailed Description

The Main Box that displays the first box takes roll number entry and displays the Main window

5.1.2 Member Function Documentation

5.1.2.1 `def project.MainBox.acceptButtonClicked (self, widget)`

A method called when the disclaimer is accepted

5.1.2.2 `def project.MainBox.buttonClicked (self, widget)`

A method to call the main window when submit is pressed

Here is the call graph for this function:

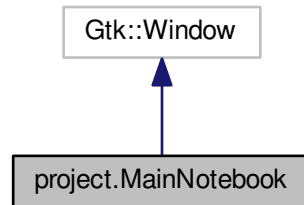


The documentation for this class was generated from the following file:

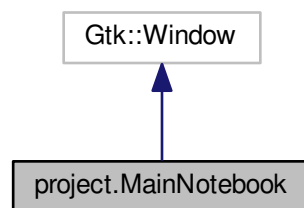
- `project.py`

5.2 project.MainNotebook Class Reference

Inheritance diagram for project.MainNotebook:



Collaboration diagram for project.MainNotebook:



Public Member Functions

- def `__init__`
- def `Logout` (self, widget)
- def `checkForRating` (self, widget)
- def `on_rating_changed` (self, widget)
- def `on_rating_submit` (self, widget)
- def `hideLending` (self)
- def `showLending` (self)
- def `checkForDelete` (self)
- def `on_submit_lend_clicked` (self, widget)
- def `on_lend_clicked` (self, widget)
- def `on_delete_clicked` (self, widget)
- def `on_course_combo_changed` (self, combo)
- def `on_course_combo2_changed` (self, combo)
- def `on_books_combo_changed` (self, combo)
- def `getSelectedLenderDetails` (self, tree_selection)
- def `on_download_clicked` (self, widget)
- def `on_upload_clicked` (self, widget, roll)

- def [on_file_clicked](#) (self, widget)
- def [add_filters](#) (self, dialog)
- def [getSelectedFileDetails](#) (self, tree_selection)
- def [updateFileList](#) (self)
- def [updateLendList](#) (self)

Public Attributes

- **notebook**
- **page1**
- **page2**
- **page3**
- **page4**
- **scrolledwindow**
- **liststore_files**
- **course_combo**
- **courseList**
- **activeFilename**
- **activeRoll**
- **rating**
- **rating_combo**
- **downloadBox**
- **textBox**
- **button_rating**
- **page5**
- **lendingwindow**
- **liststore_lend**
- **books_combo**
- **books**
- **roll**
- **activeLender**
- **course_combo2**
- **button_lend**
- **contact_label**
- **contact_field**
- **button_submit_lend**
- **button_delete**
- **activeRating**
- **fileToUpload**
- **uploadTime**
- **treeview**

5.2.1 Detailed Description

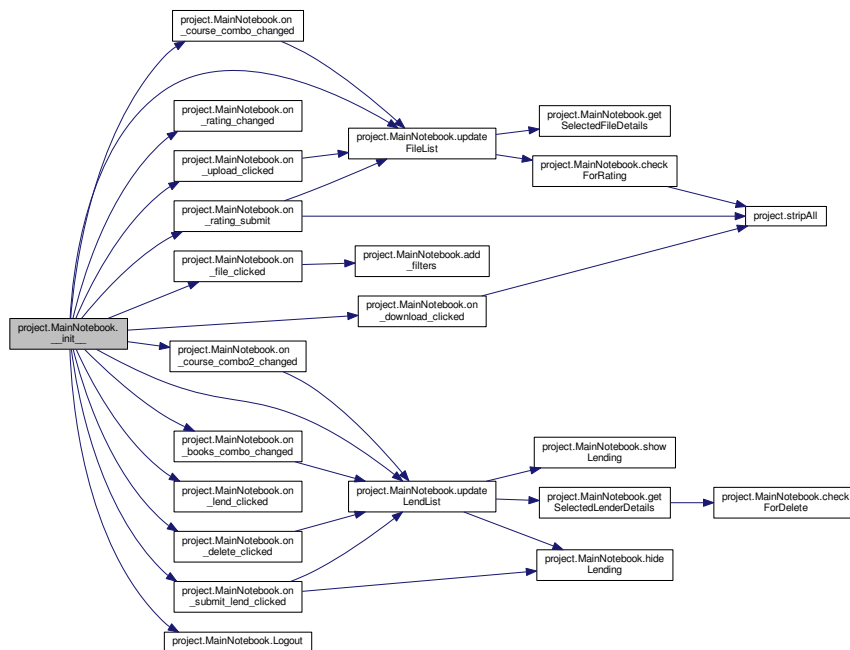
The Main Notebook that displays all the results

5.2.2 Constructor & Destructor Documentation

5.2.2.1 `def project.MainNotebook.__init__(self, dept = "CSE", sem = 3, roll = '140101063')`

Initializes Notebook with 5 pages

Here is the call graph for this function:

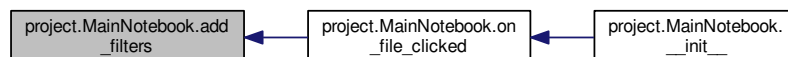


5.2.3 Member Function Documentation

5.2.3.1 `def project.MainNotebook.add_filters (self, dialog)`

A method to filter the filetypes that has to be chosen

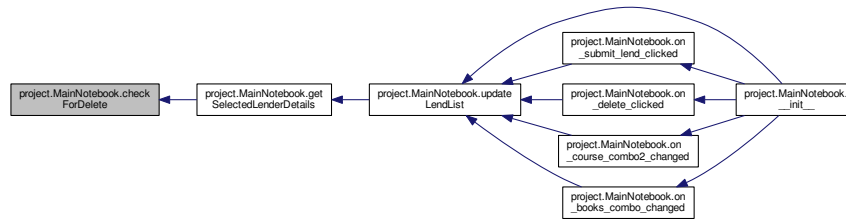
Here is the caller graph for this function:



5.2.3.2 `def project.MainNotebook.checkForDelete (self)`

A method to check if the person has already lendend the book

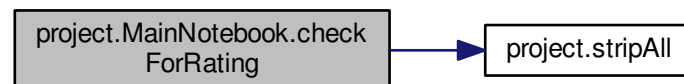
Here is the caller graph for this function:



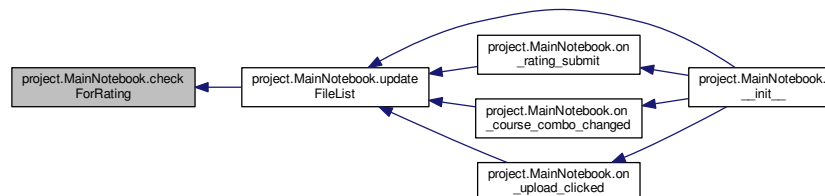
5.2.3.3 def project.MainNotebook.checkForRating (self, widget)

A method to retrieve the active rating of the person

Here is the call graph for this function:



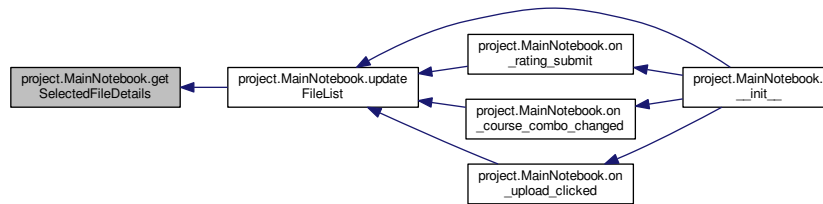
Here is the caller graph for this function:



5.2.3.4 def project.MainNotebook.getSelectedFileDetails (self, tree_selection)

A method to get the file details of the selected file

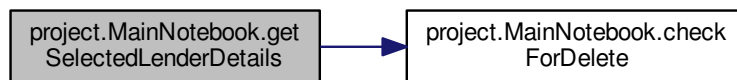
Here is the caller graph for this function:



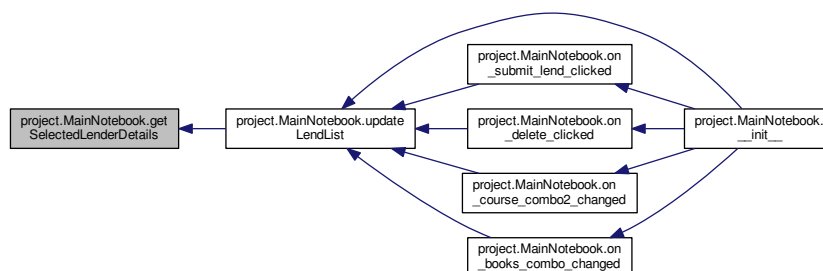
5.2.3.5 `def project.MainNotebook.getSelectedLenderDetails (self, tree_selection)`

A method to get the details of the selected lender

Here is the call graph for this function:



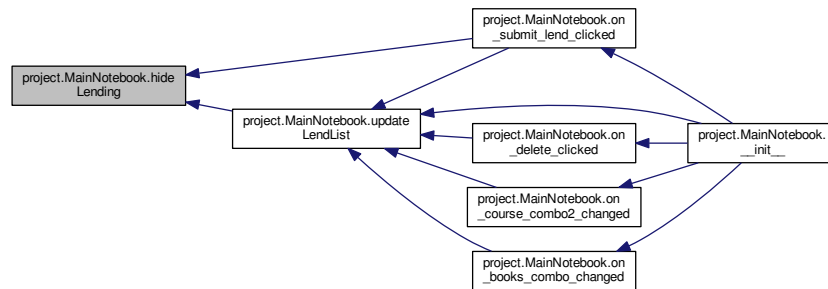
Here is the caller graph for this function:



5.2.3.6 `def project.MainNotebook.hideLending (self)`

A method to hide lending buttons on lending once

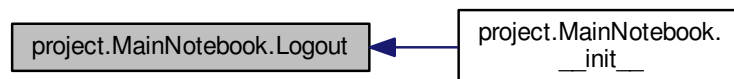
Here is the caller graph for this function:



5.2.3.7 `def project.MainNotebook.Logout (self, widget)`

A method to logout of the current session

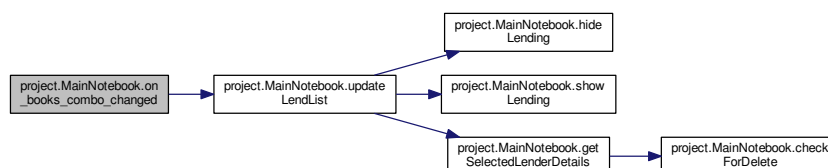
Here is the caller graph for this function:



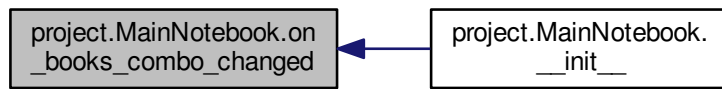
5.2.3.8 `def project.MainNotebook.on_books_combo_changed (self, combo)`

A method to call update lender list when books combo list is changed in the book lending tab

Here is the call graph for this function:



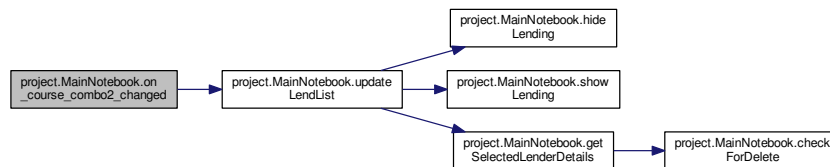
Here is the caller graph for this function:



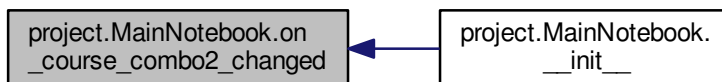
5.2.3.9 `def project.MainNotebook.on_course_combo2_changed (self, combo)`

A method to call update lender list when course combo list is changed in the book lending tab

Here is the call graph for this function:



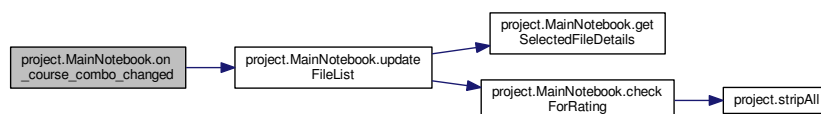
Here is the caller graph for this function:



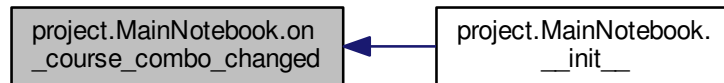
5.2.3.10 `def project.MainNotebook.on_course_combo_changed (self, combo)`

A method to call update note list when course combo list is changed in the notes tab

Here is the call graph for this function:



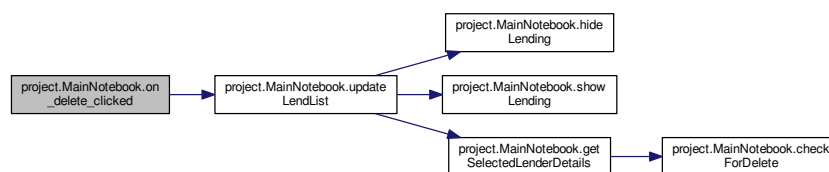
Here is the caller graph for this function:



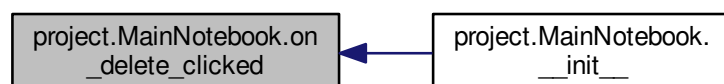
5.2.3.11 `def project.MainNotebook.on_delete_clicked (self, widget)`

A method to delete the lended book entry on deleting

Here is the call graph for this function:



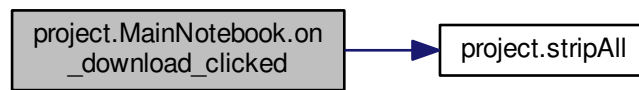
Here is the caller graph for this function:



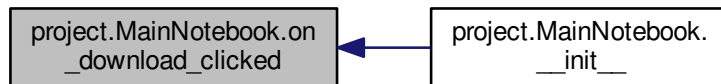
5.2.3.12 `def project.MainNotebook.on_download_clicked (self, widget)`

A method to call the method to download the file when download button is clicked

Here is the call graph for this function:



Here is the caller graph for this function:



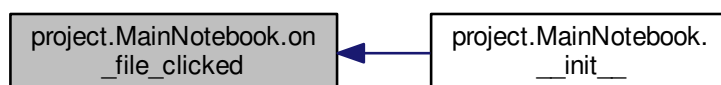
5.2.3.13 `def project.MainNotebook.on_file_clicked (self, widget)`

A method to choose a file

Here is the call graph for this function:



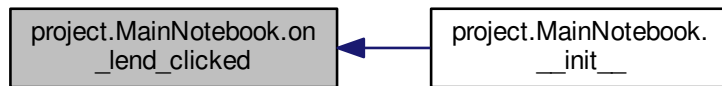
Here is the caller graph for this function:



5.2.3.14 `def project.MainNotebook.on_lend_clicked (self, widget)`

A method to hide and show various buttons when the lend button is clicked

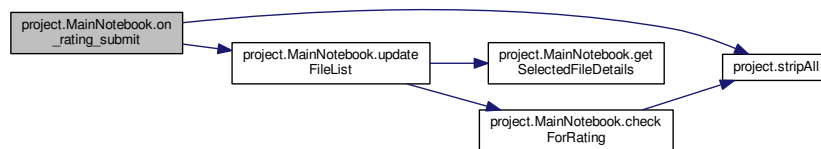
Here is the caller graph for this function:



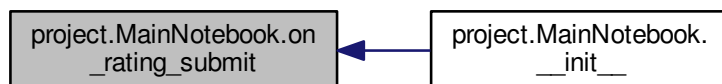
5.2.3.15 `def project.MainNotebook.on_rating_submit (self, widget)`

A method to save the rating of the person on pressing the submit button

Here is the call graph for this function:



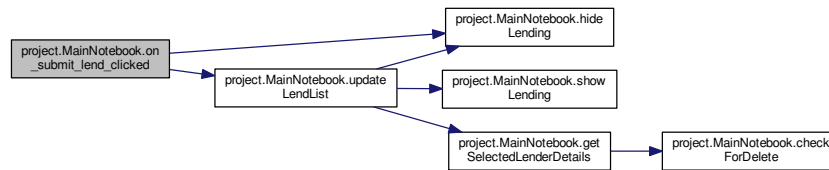
Here is the caller graph for this function:



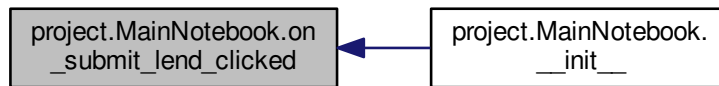
5.2.3.16 `def project.MainNotebook.on_submit_lend_clicked (self, widget)`

A method that aids in lending the book

Here is the call graph for this function:



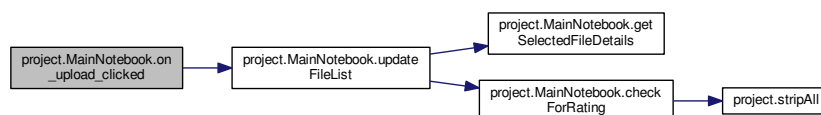
Here is the caller graph for this function:



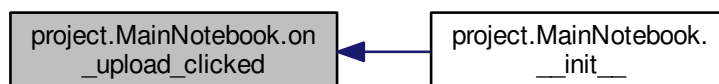
5.2.3.17 def project.MainNotebook.on_upload_clicked (self, widget, roll)

A method to call the upload method when upload button is clicked

Here is the call graph for this function:



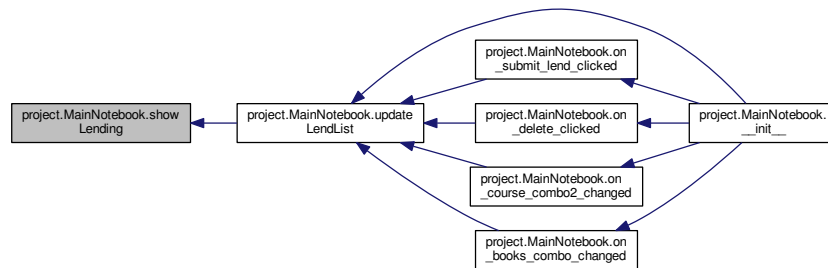
Here is the caller graph for this function:



5.2.3.18 `def project.MainNotebook.showLending (self)`

A method to show the lending buttons on course change

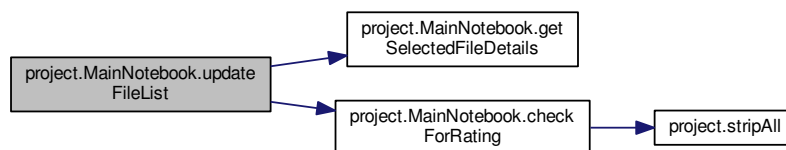
Here is the caller graph for this function:



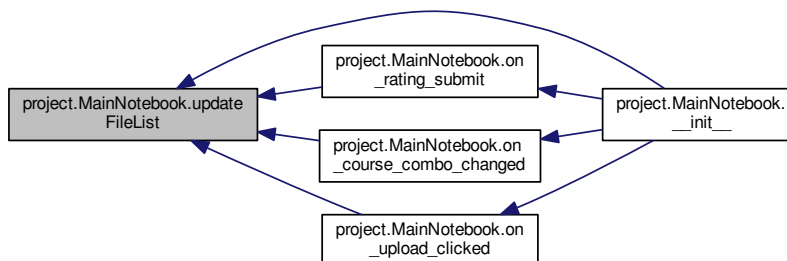
5.2.3.19 `def project.MainNotebook.updateFileList (self)`

A method to update the file list on various event listeners

Here is the call graph for this function:



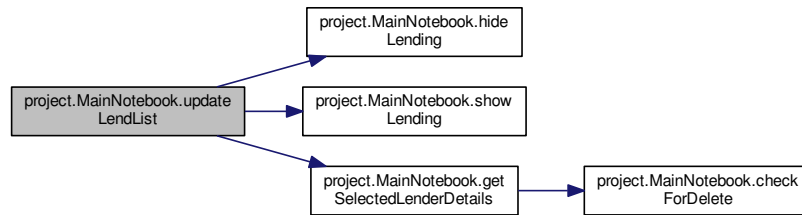
Here is the caller graph for this function:



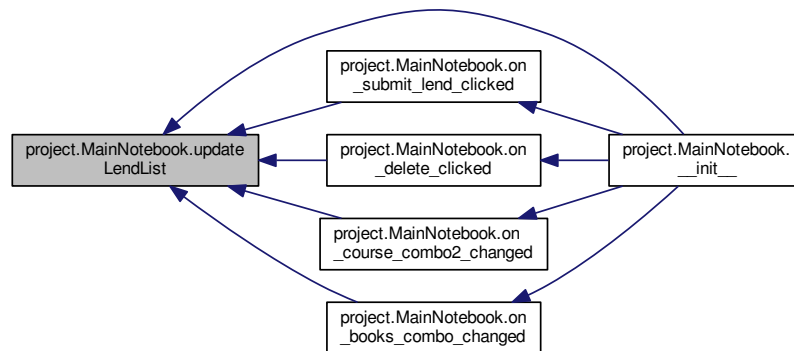
5.2.3.20 `def project.MainNotebook.updateLendList (self)`

A method to update the lend list on various event listeners

Here is the call graph for this function:



Here is the caller graph for this function:

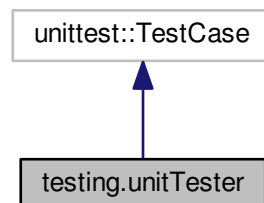


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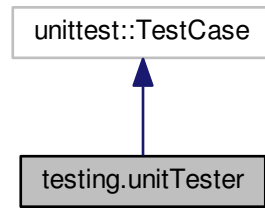
- `project.py`

5.3 testing.unitTester Class Reference

Inheritance diagram for `testing.unitTester`:



Collaboration diagram for testing.unitTester:



Public Member Functions

- def `test_is_correct_sem` (self)
- def `test_is_correct_dep` (self)
- def `test_is_uploading` (self)
- def `test_is_listing` (self)
- def `test_is_downloading` (self)
- def `test_courses` (self)
- def `test_course_books` (self)

5.3.1 Member Function Documentation

5.3.1.1 def testing.unitTester.test_course_books (self)

Test function to test if the correct books information is returned for all the available semesters and departments. It checks the returned output with the data dumped in "books.json" file

5.3.1.2 def testing.unitTester.test_courses (self)

Test function to test if the correct course information is returned for all the available semesters and departments. It checks the returned output with the data dumped in "course.json" file

5.3.1.3 def testing.unitTester.test_is_correct_dep (self)

Test function to test the department returned on giving a roll number to the function `depFinder`

5.3.1.4 def testing.unitTester.test_is_correct_sem (self)

Test function to test the semester returned on giving a roll number to the function `semFinder`

5.3.1.5 def testing.unitTester.test_is_downloading (self)

Test function to test the downloading of notes

5.3.1.6 def testing.unitTester.test_is_listing (self)

Test function to test if the list of uploaded notes for a course is appropriately returned

5.3.1.7 def testing.unitTester.test_is_uploading (self)

Test function to test the uploading of notes

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

- testing.py

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