Console Assistant

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Console Assistant

Console Assistant is a python 3.x-based command-line program that allows you to manage your contacts and notes, sort files in a folder by category and delete file copies..

The assistant saves contacts and notes to the folder of the current user. For example, in Windows it's a folder $C:\Users<User>\$ with names

- contacts.bin
- notes.bin respectively.

1.1 Install and Run Assistant

· Clone repository

https://github.com/sergiokapone/project-team-9_console_helper.git

• Create virtual environment in folder contains setup.py, in command line type

```
or
py -m venv .venv
```

- Type activate.cmd in command line.
- To install a module in a virtual environment, type the install.cmd in console.
- · To start the assistant, in console type:

assistant

The following packages are required to install the package:

```
prettytable==3.7.0
prompt-toolkit==3.0.0
Pygments==2.15.1
transliterate==1.10.2
```

Install requirements

pip install -r requirements.txt

2 Console Assistant

1.2 Commands

1.2.1 Hello and welcome commands

- help: Displays a list of available commands and their descriptions.
- hello: Greets the user.
- good bye, close, exit: Exits the program with saving data.
- .: exits the program without messages with saving data.
- *: exits the program without messages without saving data.

1.2.2 Manage contacts commands

- add contact: Add a contact to the address book.
- set phone: Allows the user to set their phone number.
- remove phone: Removes the user phone number.
- set email: Allows the user to set their email address.
- remove email: Removes the user email.
- set address: Allows the user to set their address.
- remove address: Removes the user address.
- set birthday: Allows the user to set their birthday.
- upcoming birthdays: Shows the list of upcoming birthdays.
- show contacts: Shows the list of saved contacts.
- show contact: Shows the details of a specific contact.
- search contact: Searches for a specific contact by name.
- remove contact: Removes a contact from the list.
- change name: Change name of contact.
- save: save contacts to file.
- load: load contacts from file.

1.2.3 Currency exchange"

• currency: Get Currency exchange.

1.2.4 Sorting Folder

• sort folder: Sort folder.

1.3 Usage Examples 3

1.2.5 Manage notes commands

- add note: Adds a note.
- show notes: Shows the list of saved notes.
- search notes: Searches for a specific note by title or date.
- remove note: Removes a note from the list.
- save notes: Saves the notes to a file.
- · load notes: Loads the notes from a file.
- change note: Edit note by index.
- remove tag: Removes Tag for specified note index.

1.3 Usage Examples

1.3.1 Sort folder

• >>> sort folder D:\MyGarbage\ — sort files in folder D:\MyGarbage\

1.3.2 Manage contacts

To manage contacts in your address book, You can type commands by following examples:

- >>> show contacts shows table of contacts in address book.
- >>> show contacts 3 displaying contacts in chunks of 3 items, 20 is by default
- >>> add contact Username add empty contact Username to the address book.
- >>> add contact Someone 03.05.1995 his_mail@i.ua add contact Someone to the address book with date of birthday 03.05.1995 and email his_mail@i.ua[^2].
- >>> set phone Username 0935841245 add phone[^1] to contact Username in address book.
- >>> set birthday Username 12.12.1978 add birthday[^1] to contact Username in address book.
- >>> set email my_name@gmail.com add email[^1] my_name@gmail.com to contact Username in address book.
- >>> upcoming birthdays 5 shows contacts with upcoming birthdays within 5 days.
- >>> show contact Username show contact Username information.
- ullet >>> search contact SearchQuery where SearchQuery some word or number for searching.
- >>> remove contact Username remove contact Uresname
- >>> remove phone Username 1 remove user phone by index 1.
- >>> remove email Username 2 remove user email by index 2.
- >>> change contact Username Bobo change contact name Uresname to new name Bobo.

 $[^{\wedge}1]$: If the contact is missing, it will be added automatically.

[^2]: Order doesn't matter.

4 Console Assistant

1.3.3 Manage notes

To manage contacts in your address book, You can type commands by following examples:

- >>> show notes just show all notes.
- >>> show notes Rec show all notes with tag Rec .
- >>> show notes 3 displaying notes in chunks of 3 items.
- >>> add note Tag Text of your note add note with $Tag[^3]$ and text Text of your note.
- >>> add tag 1 Mytag add tag Mytag[$^{\wedge}$ 4] to note with index 1.
- >>> remove tag 4 Tag removes Tag for note with index 4.
- >>> change note 1 New text change note 1 with New text.
- >>> remove note 2 remove note with index 2.

[$^{\circ}$ 3]: When creating a note, you can assign only one single-word tag. You can add subsequent tags with add tag command.

[^4]: Tag cannot be a number.

1.3.4 Exit program

To exit the program just type following commands[^5]:

- >>> good bye
- >>> close
- >>> exit

Another possibility to exit without any messages is typing dot:

• >>> .

[^5]: After executing the specified commands, the application will save your data automatically.

Upon subsequent program entry, the data will be loaded automatically.

But if you type * the application exit without saving your data:

• >>> *

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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Hierarchical Index

3.1 Class Hierarchy

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Class Index

4.1 Class List

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

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console_assistant.addressbook.Birthday	6
console_assistant.CLI.Command	8
console_assistant.CLI.CommandCompleter	0
console_assistant.CLI.CommandExecutor	1
console_assistant.CLI.CommandParser	3
console_assistant.CLI.ConsoleView	5
console_assistant.curreny.CurrencyList	7
console_assistant.addressbook.Email	0
console_assistant.addressbook.Field	2
console_assistant.CLI.InputReader	5
console_assistant.notebook.Notebook	7
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File Index

5.1 File List

Here is a list of all files with brief descriptions:

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Namespace Documentation

6.1 console_assistant Namespace Reference

Namespaces

- namespace addressbook
- namespace CLI
- · namespace colors
- namespace curreny
- namespace file_copies_deleter
- namespace filesorter
- namespace normaliser
- namespace notebook
- · namespace serializer

6.2 console_assistant.addressbook Namespace Reference

Classes

- class AddressBook
- class Birthday
- class Email
- class Field
- class Phone

Variables

• namedtuple Record = namedtuple("Record", ["name", "birthday", "phones", "emails", "address"])

6.2.1 Variable Documentation

6.2.1.1 Record

Definition at line 60 of file addressbook.py.

6.3 console_assistant.CLI Namespace Reference

Classes

- · class Command
- class CommandCompleter
- class CommandExecutor
- class CommandParser
- class ConsoleView
- class InputReader
- class UserView

Functions

- def input_error (func)
- def hello (*args)
- def good bye (*args)
- def save (*args)
- def load (*args)
- · def parse contact params (string)
- def add_contact (*args)
- def remove_contact (*args)
- def remove_phone (*args)
- def remove_email (*args)
- def remove_address (*args)
- def upcoming birthdays (*args)
- def change_name (*args)
- def search_contact (*args)
- def show contact (*args)
- def build_contacts_table (contacts)
- def _get_phones_str (phones)
- def get emails str (emails)
- def show_contacts (*args)
- def add_note (*args)
- def remove_note (*args)
- def add_tag (*args)
- def build_notes_table (notes, original_indices=False)
- def show notes (*args)
- def search_notes (*args)
- def save_notes (*args)
- def change_note (*args)
- def remove_tag (*args)def load_notes (*args)
- · def get currency table (CurrencyList currency list)
- def get currency (*args)
- def get_weather (*args)
- def help_commands (*args)
- def sort_folder_cli (*args)
- def cls (*args)
- def main ()

Variables

- dict COMMANDS
- AddressBook contacts = AddressBook()
- Notebook notebook = Notebook()
- str NOTES_FILE = "notes.bin"
- str CONTACT_FILE = "contacts.bin"
- f HELLO_MESSAGE = f"{N}Hello, I'm an assistant v1.0.0 {G}(c) Team-9, GoIT 2023.{N}\nType {Y}help{N} for more information.{N}"

6.3.1 Detailed Description

6.3.2 Function Documentation

6.3.2.1 _get_emails_str()

Definition at line 424 of file CLI.py.

Here is the caller graph for this function:



6.3.2.2 _get_phones_str()

Definition at line 415 of file CLI.py.

Here is the caller graph for this function:

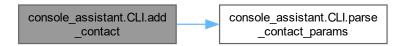


6.3.2.3 add_contact()

```
def console_assistant.CLI.add_contact (
          * args )
```

Definition at line 119 of file CLI.py.

Here is the call graph for this function:



6.3.2.4 add_note()

Definition at line 461 of file CLI.py.

6.3.2.5 add_tag()

```
def console_assistant.CLI.add_tag (
          * args )
```

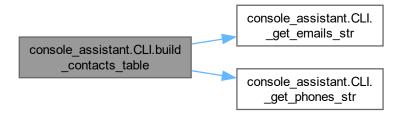
Definition at line 489 of file CLI.py.

6.3.2.6 build_contacts_table()

```
\begin{tabular}{ll} \tt def console\_assistant.CLI.build\_contacts\_table \ ( \\ & contacts \ ) \end{tabular}
```

Definition at line 391 of file CLI.py.

Here is the call graph for this function:



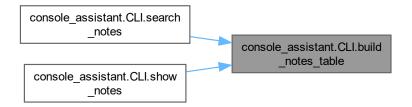
Here is the caller graph for this function:



6.3.2.7 build_notes_table()

Definition at line 509 of file CLI.py.

Here is the caller graph for this function:



6.3.2.8 change_name()

Definition at line 349 of file CLI.py.

6.3.2.9 change_note()

Definition at line 568 of file CLI.py.

6.3.2.10 cls()

```
def console_assistant.CLI.cls (
          * args )
```

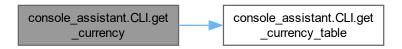
Definition at line 680 of file CLI.py.

6.3.2.11 get_currency()

```
def console_assistant.CLI.get_currency (
          * args )
```

Definition at line 625 of file CLI.py.

Here is the call graph for this function:



6.3.2.12 get_currency_table()

Definition at line 611 of file CLI.py.

Here is the caller graph for this function:



6.3.2.13 get_weather()

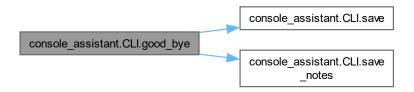
Definition at line 634 of file CLI.py.

6.3.2.14 good_bye()

```
def console_assistant.CLI.good_bye (
          * args )
```

Definition at line 65 of file CLI.py.

Here is the call graph for this function:



6.3.2.15 hello()

```
def console_assistant.CLI.hello (
          * args )
```

Definition at line 61 of file CLI.py.

6.3.2.16 help_commands()

```
def console_assistant.CLI.help_commands (
          * args )
```

Definition at line 657 of file CLI.py.

6.3.2.17 input_error()

```
\label{eq:console_assistant.CLI.input\_error} \mbox{ (} \\ \mbox{ } \mbox{ } func \mbox{ )}
```

Definition at line 40 of file CLI.py.

6.3.2.18 load()

```
def console_assistant.CLI.load (
          * args )
```

Definition at line 85 of file CLI.py.

Here is the caller graph for this function:



6.3.2.19 load_notes()

```
def console_assistant.CLI.load_notes (
     * args )
```

Definition at line 594 of file CLI.py.

Here is the caller graph for this function:

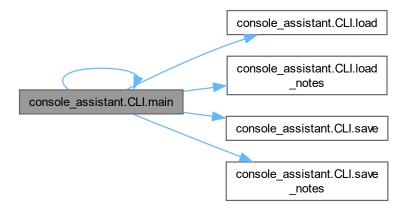


6.3.2.20 main()

```
def console_assistant.CLI.main ( )
```

Definition at line 829 of file CLI.py.

Here is the call graph for this function:



Here is the caller graph for this function:



6.3.2.21 parse_contact_params()

```
\begin{tabular}{ll} \tt def console\_assistant.CLI.parse\_contact\_params ( \\ & string ) \end{tabular}
```

Definition at line 102 of file CLI.py.

Here is the caller graph for this function:



6.3.2.22 remove_address()

Definition at line 295 of file CLI.py.

6.3.2.23 remove_contact()

Definition at line 155 of file CLI.py.

6.3.2.24 remove_email()

Definition at line 247 of file CLI.py.

6.3.2.25 remove_note()

Definition at line 479 of file CLI.py.

6.3.2.26 remove_phone()

```
def console_assistant.CLI.remove_phone ( * \ args \ )
```

Definition at line 200 of file CLI.py.

6.3.2.27 remove_tag()

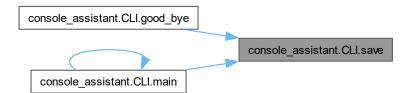
```
def console_assistant.CLI.remove_tag (
     * args )
```

Definition at line 578 of file CLI.py.

6.3.2.28 save()

Definition at line 74 of file CLI.py.

Here is the caller graph for this function:

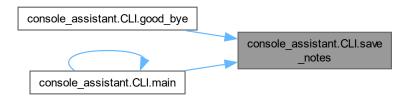


6.3.2.29 save_notes()

```
def console_assistant.CLI.save_notes (
     * args )
```

Definition at line 558 of file CLI.py.

Here is the caller graph for this function:



6.3.2.30 search_contact()

```
def console_assistant.CLI.search_contact (
          * args )
```

Definition at line 370 of file CLI.py.

6.3.2.31 search_notes()

```
def console_assistant.CLI.search_notes (
          * args )
```

Definition at line 548 of file CLI.py.

Here is the call graph for this function:



6.3.2.32 show_contact()

```
def console_assistant.CLI.show_contact (
          * args )
```

Definition at line 382 of file CLI.py.

6.3.2.33 show_contacts()

```
def console_assistant.CLI.show_contacts ( * \ args \ )
```

Definition at line 434 of file CLI.py.

Here is the call graph for this function:

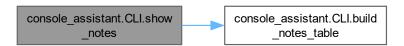


6.3.2.34 show_notes()

```
def console_assistant.CLI.show_notes (
          * args )
```

Definition at line 531 of file CLI.py.

Here is the call graph for this function:



6.3.2.35 sort_folder_cli()

```
def console_assistant.CLI.sort_folder_cli (
          * args )
```

Definition at line 674 of file CLI.py.

6.3.2.36 upcoming_birthdays()

Definition at line 340 of file CLI.py.

6.3.3 Variable Documentation

6.3.3.1 COMMANDS

```
dict console_assistant.CLI.COMMANDS
```

Definition at line 695 of file CLI.py.

6.3.3.2 CONTACT_FILE

```
str console_assistant.CLI.CONTACT_FILE = "contacts.bin"
```

Definition at line 817 of file CLI.py.

6.3.3.3 contacts

```
AddressBook console_assistant.CLI.contacts = AddressBook()
```

Definition at line 812 of file CLI.py.

6.3.3.4 HELLO_MESSAGE

```
f console_assistant.CLI.HELLO_MESSAGE = f"{N}Hello, I'm an assistant v1.0.0 {G}(c) Team-9, GoIT 2023.{N}\nType {Y}help{N} for more information.{N}"
```

Definition at line 818 of file CLI.py.

6.3.3.5 notebook

```
Notebook console_assistant.CLI.notebook = Notebook()
```

Definition at line 813 of file CLI.py.

6.3.3.6 NOTES FILE

```
str console_assistant.CLI.NOTES_FILE = "notes.bin"
```

Definition at line 816 of file CLI.py.

6.4 console_assistant.colors Namespace Reference

Variables

```
• str G = "\033[1;92m"]
```

• str B = "\033[1;96m"

• str $P = "\033[4;95m"]$

• str $R = \sqrt{033[1;91m]}$

• str N = "033[0m"]

• str $Y = "\033[0;93m"]$

• str $W = "\033[97m"]$

6.4.1 Variable Documentation

6.4.1.1 B

```
str console_assistant.colors.B = "\033[1;96m"
```

Definition at line 2 of file colors.py.

6.4.1.2 G

```
str console_assistant.colors.G = "\033[1;92m"
```

Definition at line 1 of file colors.py.

6.4.1.3 N

```
str console_assistant.colors.N = "\033[0m""
```

Definition at line 5 of file colors.py.

6.4.1.4 P

```
str console_assistant.colors.P = "\033[4;95m"
```

Definition at line 3 of file colors.py.

6.4.1.5 R

```
str console_assistant.colors.R = "\033[1;91m"
```

Definition at line 4 of file colors.py.

6.4.1.6 W

```
str console_assistant.colors.W = "\033[97m""
```

Definition at line 7 of file colors.py.

6.4.1.7 Y

```
str console_assistant.colors.Y = "\033[0;93m"
```

Definition at line 6 of file colors.py.

6.5 console_assistant.curreny Namespace Reference

Classes

· class CurrencyList

Functions

• def get_currency_table (CurrencyList currency_list)

Variables

- namedtuple Currency = namedtuple("Currency", ["name", "rate", "cc"])
- CurrencyList cur = CurrencyList()

6.5.1 Function Documentation

6.5.1.1 get_currency_table()

Definition at line 35 of file curreny.py.

6.5.2 Variable Documentation

6.5.2.1 cur

```
CurrencyList console_assistant.curreny.cur = CurrencyList()
```

Definition at line 47 of file curreny.py.

6.5.2.2 Currency

```
namedtuple console_assistant.curreny.Currency = namedtuple("Currency", ["name", "rate", "cc"])
```

Definition at line 6 of file curreny.py.

6.6 console_assistant.file_copies_deleter Namespace Reference

Functions

- def count_files (abs_path, file_format="")
- def get_hash (path_to_file)
- def count_copies (dir_path, file_format="")
- def delete_files (hash_dictionary)
- def delete_empty_folders (path)
- def copies deleter (root)

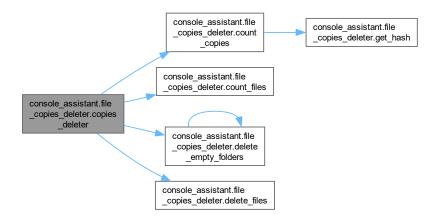
6.6.1 Function Documentation

6.6.1.1 copies_deleter()

```
def console_assistant.file_copies_deleter.copies_deleter ( root )
```

Definition at line 81 of file file_copies_deleter.py.

Here is the call graph for this function:



6.6.1.2 count_copies()

Definition at line 40 of file file_copies_deleter.py.

Here is the call graph for this function:



Here is the caller graph for this function:



6.6.1.3 count_files()

Definition at line 20 of file file_copies_deleter.py.

Here is the caller graph for this function:



6.6.1.4 delete_empty_folders()

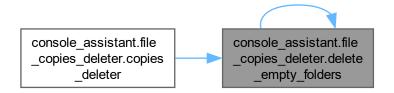
```
def console_assistant.file_copies_deleter.delete_empty_folders ( path \ )
```

Definition at line 72 of file file_copies_deleter.py.

Here is the call graph for this function:



Here is the caller graph for this function:



6.6.1.5 delete_files()

```
\label{lem:delete_delete} \mbox{def console\_assistant.file\_copies\_deleter.delete\_files (} \\ \mbox{\it hash\_dictionary} \mbox{\ )}
```

Definition at line 61 of file file_copies_deleter.py.

Here is the caller graph for this function:



6.6.1.6 get_hash()

```
\begin{tabular}{ll} def & console\_assistant.file\_copies\_deleter.get\_hash & & path\_to\_file \end{tabular} \label{table}
```

Definition at line 32 of file file_copies_deleter.py.

Here is the caller graph for this function:



6.7 console_assistant.filesorter Namespace Reference

Functions

- def get_file_cathegory (str file)
- def normalise_file_name (str file)
- def create_folders (root)
- def organize_files (path, level=0, known_exts=set(), unknown_exts=set(), categories=set())
- · def unpack (archive path, path to unpack)
- def remove_empty (path)
- def known_exts (root)
- def sort_folder (root)

Variables

dict EXT_FOLDER

6.7.1 Function Documentation

6.7.1.1 create_folders()

```
\begin{tabular}{ll} $\operatorname{def console\_assistant.filesorter.create\_folders} & ( & root \end{tabular} \label{eq:root}
```

Definition at line 46 of file filesorter.py.

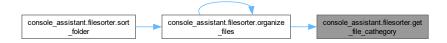
Here is the caller graph for this function:



6.7.1.2 get file cathegory()

Definition at line 22 of file filesorter.py.

Here is the caller graph for this function:



6.7.1.3 known_exts()

```
\label{eq:console_assistant.filesorter.known_exts} \mbox{ (} \\ \mbox{ root )}
```

Definition at line 112 of file filesorter.py.

Here is the caller graph for this function:



6.7.1.4 normalise_file_name()

Definition at line 34 of file filesorter.py.

Here is the caller graph for this function:

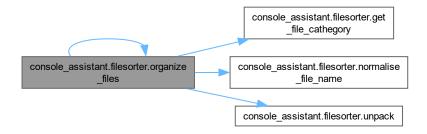


6.7.1.5 organize_files()

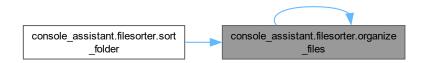
```
def console_assistant.filesorter.organize_files (
    path,
    level = 0,
    known_exts = set(),
    unknown_exts = set(),
    categories = set())
```

Definition at line 53 of file filesorter.py.

Here is the call graph for this function:



Here is the caller graph for this function:



6.7.1.6 remove_empty()

```
def console_assistant.filesorter.remove_empty ( path \ )
```

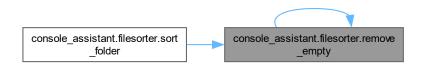
Console Assistant

Definition at line 96 of file filesorter.py.

Here is the call graph for this function:



Here is the caller graph for this function:

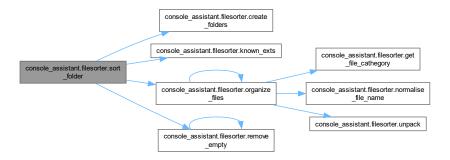


6.7.1.7 sort_folder()

```
\begin{tabular}{ll} \tt def console\_assistant.filesorter.sort\_folder \ ( \\ \tt root \ ) \end{tabular}
```

Definition at line 125 of file filesorter.py.

Here is the call graph for this function:



6.7.1.8 unpack()

Definition at line 87 of file filesorter.py.

Here is the caller graph for this function:



6.7.2 Variable Documentation

6.7.2.1 EXT_FOLDER

```
dict console_assistant.filesorter.EXT_FOLDER
```

Initial value:

Definition at line 10 of file filesorter.py.

6.8 console_assistant.normaliser Namespace Reference

Functions

• def normalise (name)

6.8.1 Function Documentation

6.8.1.1 normalise()

```
\begin{tabular}{ll} \tt def console\_assistant.normaliser.normalise & ( & name & ) \\ \end{tabular}
```

Definition at line 5 of file normaliser.py.

6.9 console_assistant.notebook Namespace Reference

Classes

class Notebook

Variables

• namedtuple Note = namedtuple("Note", ["tags", "date", "text"])

6.9.1 Variable Documentation

6.9.1.1 Note

```
namedtuple console_assistant.notebook.Note = namedtuple("Note", ["tags", "date", "text"])
```

Definition at line 4 of file notebook.py.

6.10 console_assistant.serializer Namespace Reference

Classes

- · class PickleStorage
- class Storage

6.10.1 Detailed Description

6.11 setup Namespace Reference

Variables

- name
- version
- · description
- author
- license
- url
- include_package_data
- packages
- entry_points
- install_requires
- · package_data

6.11.1 Variable Documentation

6.11.1.1 author

setup.author

Definition at line 7 of file setup.py.

6.11.1.2 description

setup.description

Definition at line 6 of file setup.py.

6.11.1.3 entry_points

 $\verb"setup.entry_points"$

Definition at line 12 of file setup.py.

6.11.1.4 include_package_data

setup.include_package_data

Definition at line 10 of file setup.py.

6.11.1.5 install_requires

```
setup.install_requires
```

Definition at line 13 of file setup.py.

6.11.1.6 license

setup.license

Definition at line 8 of file setup.py.

6.11.1.7 name

setup.name

Definition at line 4 of file setup.py.

6.11.1.8 package_data

setup.package_data

Definition at line 21 of file setup.py.

6.11.1.9 packages

setup.packages

Definition at line 11 of file setup.py.

6.11.1.10 url

setup.url

Definition at line 9 of file setup.py.

6.11.1.11 version

setup.version

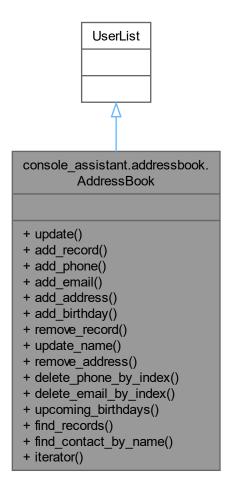
Definition at line 5 of file setup.py.

Chapter 7

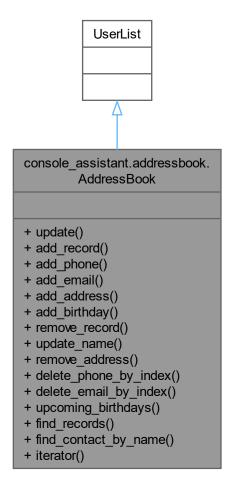
Class Documentation

7.1 console_assistant.addressbook.AddressBook Class Reference

Inheritance diagram for console_assistant.addressbook.AddressBook:



Collaboration diagram for console_assistant.addressbook.AddressBook:



Public Member Functions

- def update (self, records)
- def add_record (self, name, birthday=None, phones=None, emails=None, address=None)
- def add phone (self, name, phone)
- def add_email (self, name, email)
- def add_address (self, name, address)
- def add_birthday (self, name, birthday)
- def remove_record (self, name)
- def update_name (self, name, new_name)
- def remove_address (self, name)
- def delete_phone_by_index (self, name, phone_index)
- def delete_email_by_index (self, name, email_index)
- def upcoming_birthdays (self, days)
- def find_records (self, search_term)
- def find contact by name (self, name)
- def iterator (self, int n=10)

7.1.1 Detailed Description

Definition at line 63 of file addressbook.py.

7.1.2 Member Function Documentation

7.1.2.1 add_address()

Definition at line 112 of file addressbook.py.

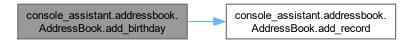
Here is the call graph for this function:



7.1.2.2 add_birthday()

Definition at line 120 of file addressbook.py.

Here is the call graph for this function:



7.1.2.3 add_email()

Definition at line 105 of file addressbook.py.

Here is the call graph for this function:



7.1.2.4 add_phone()

Definition at line 98 of file addressbook.py.

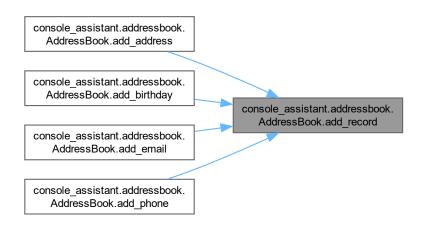
Here is the call graph for this function:



7.1.2.5 add_record()

Definition at line 68 of file addressbook.py.

Here is the caller graph for this function:



7.1.2.6 delete_email_by_index()

Definition at line 157 of file addressbook.py.

7.1.2.7 delete_phone_by_index()

Definition at line 150 of file addressbook.py.

7.1.2.8 find_contact_by_name()

Definition at line 200 of file addressbook.py.

7.1.2.9 find_records()

Definition at line 185 of file addressbook.py.

7.1.2.10 iterator()

Definition at line 206 of file addressbook.py.

7.1.2.11 remove_address()

Definition at line 142 of file addressbook.py.

7.1.2.12 remove_record()

```
def console_assistant.addressbook.AddressBook.remove_record ( self, \\ name \ )
```

Definition at line 128 of file addressbook.py.

7.1.2.13 upcoming_birthdays()

```
def console_assistant.addressbook.AddressBook.upcoming_birthdays ( self, \\ days \ ) days
```

Definition at line 164 of file addressbook.py.

7.1.2.14 update()

```
def console_assistant.addressbook.AddressBook.update ( self, \\ records \ )
```

Definition at line 64 of file addressbook.py.

7.1.2.15 update_name()

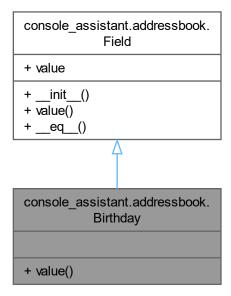
Definition at line 135 of file addressbook.py.

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

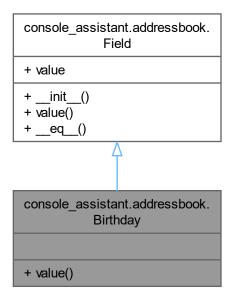
• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/addressbook.py

7.2 console_assistant.addressbook.Birthday Class Reference

 $Inheritance\ diagram\ for\ console_assistant. address book. Birth day:$



 $Collaboration\ diagram\ for\ console_assistant. address book. Birth day:$



Public Member Functions

• def value (self, value)

Public Member Functions inherited from console_assistant.addressbook.Field

```
def __init__ (self, str value)def value (self)def __eq__ (self, other)
```

Additional Inherited Members

Public Attributes inherited from console_assistant.addressbook.Field

value

7.2.1 Detailed Description

--- *'* .

Definition at line 36 of file addressbook.py.

7.2.2 Member Function Documentation

7.2.2.1 value()

```
def console_assistant.addressbook.Birthday.value ( self, \\ value \ )
```

Reimplemented from console_assistant.addressbook.Field.

Definition at line 40 of file addressbook.py.

Here is the caller graph for this function:



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

 $\bullet \ \ \, \text{D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/addressbook.py}$

7.3 console_assistant.CLI.Command Class Reference

Collaboration diagram for console_assistant.CLI.Command:

```
console_assistant.CLI.Command

+ name
+ description
+ example
+ handler

+ __init__()
```

Public Member Functions

• def __init__ (self, name, handler, description=None, example=None)

Public Attributes

- name
- · description
- example
- handler

7.3.1 Detailed Description

Definition at line 687 of file CLI.py.

7.3.2 Constructor & Destructor Documentation

Definition at line 688 of file CLI.py.

7.3.3 Member Data Documentation

7.3.3.1 description

console_assistant.CLI.Command.description

Definition at line 690 of file CLI.py.

7.3.3.2 example

console_assistant.CLI.Command.example

Definition at line 691 of file CLI.py.

7.3.3.3 handler

console_assistant.CLI.Command.handler

Definition at line 692 of file CLI.py.

7.3.3.4 name

console_assistant.CLI.Command.name

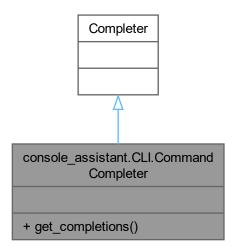
Definition at line 689 of file CLI.py.

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

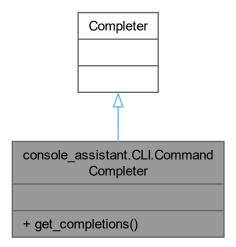
• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/CLI.py

7.4 console_assistant.CLI.CommandCompleter Class Reference

 $Inheritance\ diagram\ for\ console_assistant. CLI. Command Completer:$



Collaboration diagram for console_assistant.CLI.CommandCompleter:



Public Member Functions

• def get_completions (self, document, complete_event)

7.4.1 Detailed Description

Definition at line 739 of file CLI.py.

7.4.2 Member Function Documentation

7.4.2.1 get_completions()

```
def console_assistant.CLI.CommandCompleter.get_completions ( self, \\ document, \\ complete\_event )
```

Definition at line 740 of file CLI.py.

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

• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/CLI.py

7.5 console_assistant.CLI.CommandExecutor Class Reference

Collaboration diagram for console_assistant.CLI.CommandExecutor:

```
console_assistant.CLI.Command
Executor

+ commands

+ __init__()
+ execute_command()
```

Public Member Functions

- def __init__ (self, commands)
- def execute_command (self, command, *args)

Public Attributes

· commands

7.5.1 Detailed Description

Definition at line 776 of file CLI.py.

7.5.2 Constructor & Destructor Documentation

Definition at line 777 of file CLI.py.

7.5.3 Member Function Documentation

7.5.3.1 execute_command()

Definition at line 780 of file CLI.py.

7.5.4 Member Data Documentation

7.5.4.1 commands

```
\verb|console_assistant.CLI.CommandExecutor.commands|\\
```

Definition at line 778 of file CLI.py.

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

• D:/Projects/Programming/Python/GolTHW/Console_Assistant/console_assistant/CLI.py

7.6 console_assistant.CLI.CommandParser Class Reference

 $Collaboration\ diagram\ for\ console_assistant. CLI. Command Parser:$

```
console_assistant.CLI.Command
Parser

+ commands
+ command_pattern
+ pattern

+ __init__()
+ parse_command()
```

Public Member Functions

- def __init__ (self, commands)
- def parse_command (self, command)

Public Attributes

- commands
- command_pattern
- pattern

7.6.1 Detailed Description

Definition at line 748 of file CLI.py.

7.6.2 Constructor & Destructor Documentation

Definition at line 749 of file CLI.py.

7.6.3 Member Function Documentation

7.6.3.1 parse_command()

Definition at line 759 of file CLI.py.

7.6.4 Member Data Documentation

7.6.4.1 command_pattern

```
console_assistant.CLI.CommandParser.command_pattern
```

Definition at line 751 of file CLI.py.

7.6.4.2 commands

```
console_assistant.CLI.CommandParser.commands
```

Definition at line 750 of file CLI.py.

7.6.4.3 pattern

```
console_assistant.CLI.CommandParser.pattern
```

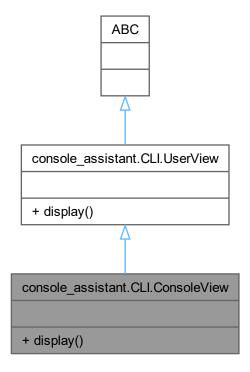
Definition at line 752 of file CLI.py.

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

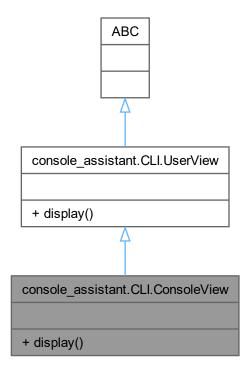
• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/CLI.py

7.7 console_assistant.CLI.ConsoleView Class Reference

 $Inheritance\ diagram\ for\ console_assistant. CLI. Console View:$



Collaboration diagram for console_assistant.CLI.ConsoleView:



Public Member Functions

- def display (self, data)
- def display (self, data)

7.7.1 Detailed Description

Definition at line 824 of file CLI.py.

7.7.2 Member Function Documentation

7.7.2.1 display()

Reimplemented from console_assistant.CLI.UserView.

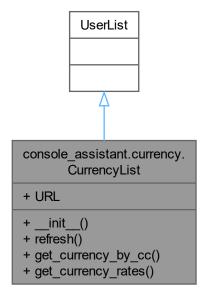
Definition at line 825 of file CLI.py.

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

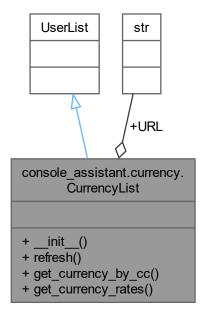
• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/CLI.py

7.8 console_assistant.curreny.CurrencyList Class Reference

Inheritance diagram for console_assistant.curreny.CurrencyList:



Collaboration diagram for console_assistant.curreny.CurrencyList:



Public Member Functions

- def __init__ (self)
- def refresh (self)
- Currency get_currency_by_cc (self, str cc)
- def get_currency_rates (self)

Static Public Attributes

• str URL = "https://bank.gov.ua/NBUStatService/v1/statdirectory/exchangenew?json"

7.8.1 Detailed Description

Definition at line 9 of file curreny.py.

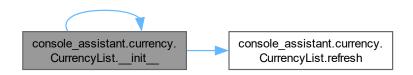
7.8.2 Constructor & Destructor Documentation

```
7.8.2.1 __init__()
```

```
def console_assistant.curreny.CurrencyList.__init__ ( self \ )
```

Definition at line 12 of file curreny.py.

Here is the call graph for this function:



Here is the caller graph for this function:



7.8.3 Member Function Documentation

7.8.3.1 get_currency_by_cc()

Definition at line 24 of file curreny.py.

7.8.3.2 get_currency_rates()

```
def console_assistant.curreny.CurrencyList.get_currency_rates ( self \ )
```

Definition at line 29 of file curreny.py.

7.8.3.3 refresh()

```
\label{lem:console_assistant.curreny.CurrencyList.refresh (} self \ )
```

Definition at line 16 of file curreny.py.

Here is the caller graph for this function:



7.8.4 Member Data Documentation

7.8.4.1 URL

str console_assistant.curreny.CurrencyList.URL = "https://bank.gov.ua/NBUStatService/v1/statdirectory/exchange
[static]

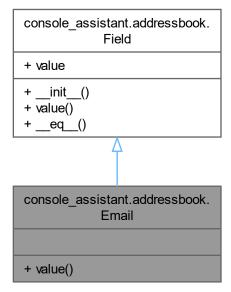
Definition at line 10 of file curreny.py.

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

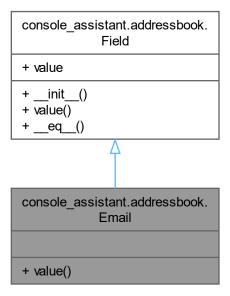
• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/curreny.py

7.9 console_assistant.addressbook.Email Class Reference

Inheritance diagram for console_assistant.addressbook.Email:



Collaboration diagram for console_assistant.addressbook.Email:



Public Member Functions

• def value (self, value)

 ${\bf Public\ Member\ Functions\ inherited\ from\ console_assistant.addressbook. Field}$

- def __init__ (self, str value)
- def value (self)
- def <u>eq</u> (self, other)

Additional Inherited Members

Public Attributes inherited from console_assistant.addressbook.Field

• value

7.9.1 Detailed Description

--- ' email

Definition at line 50 of file addressbook.py.

7.9.2 Member Function Documentation

7.9.2.1 value()

Reimplemented from console_assistant.addressbook.Field.

Definition at line 54 of file addressbook.py.

Here is the caller graph for this function:

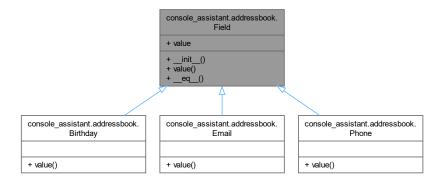


The documentation for this class was generated from the following file:

• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/addressbook.py

7.10 console_assistant.addressbook.Field Class Reference

Inheritance diagram for console_assistant.addressbook.Field:



Collaboration diagram for console_assistant.addressbook.Field:

```
console_assistant.addressbook.
Field

+ value

+ __init__()
+ value()
+ __eq__()
```

Public Member Functions

```
• def __init__ (self, str value)
```

- def value (self)
- def __eq_ (self, other)

Public Attributes

value

7.10.1 Detailed Description

. , ,

Definition at line 6 of file addressbook.py.

7.10.2 Constructor & Destructor Documentation

Definition at line 10 of file addressbook.py.

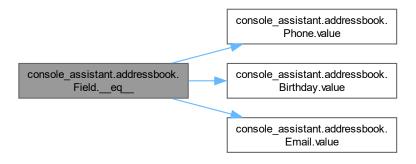
7.10.3 Member Function Documentation

7.10.3.1 __eq__()

```
def console_assistant.addressbook.Field.\_eq\_ ( self, \\ other )
```

Definition at line 18 of file addressbook.py.

Here is the call graph for this function:



7.10.3.2 value()

```
def console_assistant.addressbook.Field.value ( self )
```

Reimplemented in console_assistant.addressbook.Phone, console_assistant.addressbook.Birthday, and console_assistant.addressbook.Email.

Definition at line 15 of file addressbook.py.

Here is the caller graph for this function:



7.10.4 Member Data Documentation

7.10.4.1 value

console_assistant.addressbook.Field.value

Reimplemented in console_assistant.addressbook.Phone, console_assistant.addressbook.Birthday, and console_assistant.addressbook.Email.

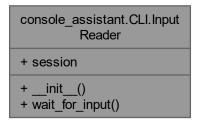
Definition at line 12 of file addressbook.py.

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

• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/addressbook.py

7.11 console_assistant.CLI.InputReader Class Reference

Collaboration diagram for console_assistant.CLI.InputReader:



Public Member Functions

- def __init__ (self)
- def wait_for_input (self)

Public Attributes

session

7.11.1 Detailed Description

Definition at line 796 of file CLI.py.

66 Class Documentation

7.11.2 Constructor & Destructor Documentation

Definition at line 797 of file CLI.py.

7.11.3 Member Function Documentation

```
7.11.3.1 wait_for_input()
```

```
def console_assistant.CLI.InputReader.wait_for_input ( self \ )
```

Definition at line 800 of file CLI.py.

7.11.4 Member Data Documentation

7.11.4.1 session

```
console_assistant.CLI.InputReader.session
```

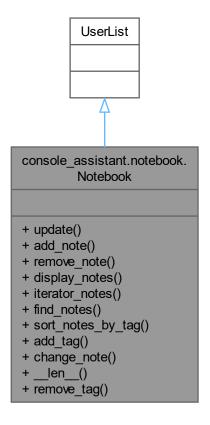
Definition at line 798 of file CLI.py.

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

• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/CLI.py

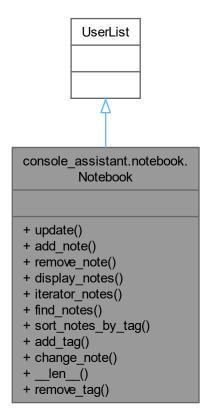
7.12 console_assistant.notebook.Notebook Class Reference

Inheritance diagram for console_assistant.notebook.Notebook:



68 Class Documentation

Collaboration diagram for console_assistant.notebook.Notebook:



Public Member Functions

- def update (self, notes)
- def add_note (self, tags, note_text)
- def remove note (self, index)
- def display_notes (self, tag=None, original_indices=False)
- def iterator_notes (self, int n=10)
- def find_notes (self, search_term)
- def sort_notes_by_tag (self)
- def add_tag (self, index, tag)
- def change_note (self, index, new_text)
- def __len__ (self)
- def remove_tag (self, index, tag)

7.12.1 Detailed Description

Definition at line 7 of file notebook.py.

7.12.2 Member Function Documentation

Definition at line 71 of file notebook.py.

7.12.2.2 add_note()

```
def console_assistant.notebook.Notebook.add_note ( self, \\ tags, \\ note\_text \ )
```

Definition at line 13 of file notebook.py.

7.12.2.3 add_tag()

Definition at line 57 of file notebook.py.

7.12.2.4 change_note()

Definition at line 66 of file notebook.py.

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7.12.2.5 display_notes()

Definition at line 23 of file notebook.py.

7.12.2.6 find_notes()

Definition at line 44 of file notebook.py.

7.12.2.7 iterator_notes()

Definition at line 34 of file notebook.py.

7.12.2.8 remove_note()

```
def console_assistant.notebook.Notebook.remove_note ( self, \\ index \ )
```

Definition at line 19 of file notebook.py.

7.12.2.9 remove_tag()

Definition at line 74 of file notebook.py.

7.12.2.10 sort_notes_by_tag()

```
def console_assistant.notebook.Notebook.sort_notes_by_tag ( self \ )
```

Definition at line 53 of file notebook.py.

7.12.2.11 update()

```
\begin{tabular}{ll} $\operatorname{def}$ console\_assistant.notebook.Notebook.update ( \\ $\operatorname{\it self}$, \\ $\operatorname{\it notes}$ ) \end{tabular}
```

Definition at line 8 of file notebook.py.

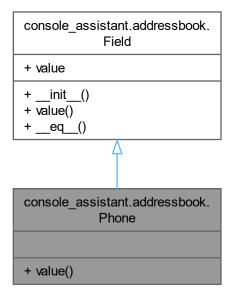
The documentation for this class was generated from the following file:

• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/notebook.py

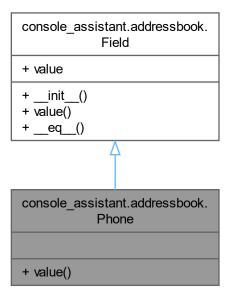
72 Class Documentation

7.13 console_assistant.addressbook.Phone Class Reference

 $Inheritance\ diagram\ for\ console_assistant. address book. Phone:$



 $Collaboration\ diagram\ for\ console_assistant. address book. Phone:$



Public Member Functions

• def value (self, value)

Public Member Functions inherited from console_assistant.addressbook.Field

```
def __init__ (self, str value)def value (self)def __eq __ (self, other)
```

Additional Inherited Members

Public Attributes inherited from console_assistant.addressbook.Field

value

7.13.1 Detailed Description

```
--- ' (Record)
```

Definition at line 25 of file addressbook.py.

7.13.2 Member Function Documentation

7.13.2.1 value()

```
def console_assistant.addressbook.Phone.value ( self, \\ value \ )
```

Reimplemented from console_assistant.addressbook.Field.

Definition at line 30 of file addressbook.py.

Here is the caller graph for this function:



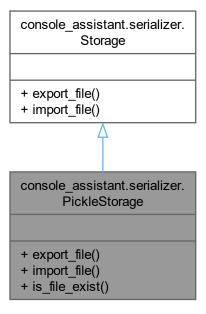
The documentation for this class was generated from the following file:

 $\bullet \ \ D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/addressbook.py$

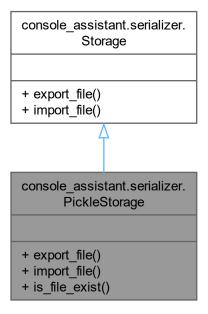
74 Class Documentation

7.14 console_assistant.serializer.PickleStorage Class Reference

 $Inheritance\ diagram\ for\ console_assistant.serializer. Pickle Storage:$



Collaboration diagram for console_assistant.serializer.PickleStorage:



Static Public Member Functions

- def export_file (obj, filename)
- def import_file (filename)
- def is_file_exist (filename)

Additional Inherited Members

- def export_file (object, str filename)
- def import_file (object, str filename)

7.14.1 Detailed Description

Definition at line 15 of file serializer.py.

7.14.2 Member Function Documentation

76 Class Documentation

7.14.2.1 export_file()

Reimplemented from console_assistant.serializer.Storage.

Definition at line 17 of file serializer.py.

7.14.2.2 import_file()

Reimplemented from console_assistant.serializer.Storage.

Definition at line 23 of file serializer.py.

7.14.2.3 is_file_exist()

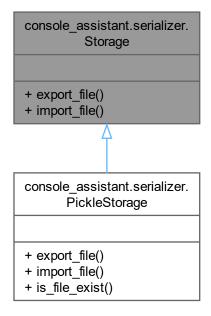
Definition at line 29 of file serializer.py.

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

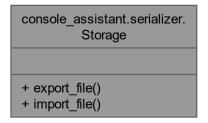
• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/serializer.py

7.15 console_assistant.serializer.Storage Class Reference

Inheritance diagram for console_assistant.serializer.Storage:



Collaboration diagram for console_assistant.serializer.Storage:



Public Member Functions

- def export_file (object, str filename)
- def import_file (object, str filename)

78 Class Documentation

7.15.1 Detailed Description

Definition at line 7 of file serializer.py.

7.15.2 Member Function Documentation

7.15.2.1 export_file()

Reimplemented in console_assistant.serializer.PickleStorage.

Definition at line 8 of file serializer.py.

7.15.2.2 import_file()

Reimplemented in console_assistant.serializer.PickleStorage.

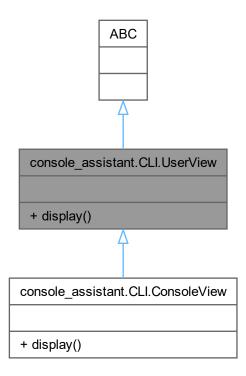
Definition at line 11 of file serializer.py.

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

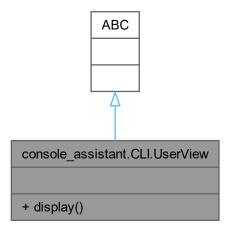
• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/serializer.py

7.16 console_assistant.CLI.UserView Class Reference

Inheritance diagram for console_assistant.CLI.UserView:



Collaboration diagram for console_assistant.CLI.UserView:



80 Class Documentation

Public Member Functions

• def display (self, data)

7.16.1 Detailed Description

Definition at line 820 of file CLI.py.

7.16.2 Member Function Documentation

7.16.2.1 display()

```
def console_assistant.CLI.UserView.display ( self, \\ data \ )
```

Reimplemented in console_assistant.CLI.ConsoleView.

Definition at line 822 of file CLI.py.

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

• D:/Projects/Programming/Python/GoITHW/Console_Assistant/console_assistant/CLI.py

Chapter 8

File Documentation

- 8.1 D:/Projects/Programming/Python/GoITHW/Console_
 Assistant/console_assistant/__init__.py File Reference
- 8.2 __init__.py

Go to the documentation of this file.

8.3 D:/Projects/Programming/Python/GolTHW/Console_

Assistant/console_assistant/addressbook.py File Reference

Classes

- · class console assistant.addressbook.Field
- class console_assistant.addressbook.Phone
- · class console_assistant.addressbook.Birthday
- class console_assistant.addressbook.Email
- class console_assistant.addressbook.AddressBook

Namespaces

- namespace console_assistant
- namespace console_assistant.addressbook

Variables

• namedtuple console_assistant.addressbook.Record = namedtuple("Record", ["name", "birthday", "phones", "emails", "address"])

8.4 addressbook.py

Go to the documentation of this file.

```
00001 import re
00002 from datetime import datetime, timedelta
00003 from collections import namedtuple, UserList
00005
00006 class Field:
00007 """
80000
00009
00010
          def __init__(self, value: str):
00011
             self.__value = value
00012
              self.valuevalue = value
00013
00014
          @property
00015
          def value(self):
00016
              return self. value
00017
00018
          def __eq__(self, other):
00019
             return self.valuevalue == other.value
00020
          # def __str__(self):
# return self.value
00021
00022
00023
00024
00025 class Phone (Field): 00026 """ --- '
                            (Record)
00027
00028
00029
         @Field.value.setter
00030
          def value(self, value):
           if not bool(re.match(r"\d{10}", value)) or len(value) > 10:
00031
00032
                  raise ValueError("Phone number must be 10 digits")
              self.__value__value = value
00033
00034
00035
00036 class Birthday(Field):
00037
          """ --- /
00038
00039
          @Field.value.setter
00040
         def value (self, value):
00041
              try:
00042
                 date = datetime.strptime(value, "%d.%m.%Y")
00043
              except (TypeError, ValueError):
00044
                  raise ValueError("Invalid date format. Please use DD.MM.YYYY")
              if date > datetime.today():
00045
00046
                  raise ValueError("Date cannot be in the future")
00047
              self.__value__value = value
00049
00050 class Email(Field):
00051 """ --- ' ema
                     email"""
00052
00053
         @Field.value.setter
          def value(self, value):
00055
             if not bool(re.match(r"[\w.-]+@[a-zA-Z]+\.[a-zA-Z]{2,}", value)):
00056
                  raise ValueError("Email is not valid")
00057
              self.__value = value
00058
00059
00060 Record = namedtuple("Record", ["name", "birthday", "phones", "emails", "address"])
00061
00062
00063 class AddressBook(UserList):
00064
        def update(self, records):
00065
              self.data.clear()
00066
              self.data.extend(records)
00068
          def add_record(self, name, birthday=None, phones=None, emails=None, address=None):
00069
00070
              for record in self.data:
00071
                  if record.name == name:
                       # # print(f"Contact with {name} already exist!")
00072
                       # raise ValueError("Contact already exist in AddressBook.")
00074
00075
                          record.birthday.extend([Birthday(bd) for bd in birthday])
00076
                       if phones:
00077
                          record.phones.extend([Phone(ph) for ph in phones])
00078
                       if emails:
                          record.emails.extend([Email(em) for em in emails])
00080
                       if address:
00081
                          record.address.extend(address)
00082
```

8.4 addressbook.py 83

```
00083
00084
00085
               birthday = [Birthday(birthday) for birthday in birthday] if birthday else []
               phones = [Phone(phone) for phone in phones] if phones else [] emails = [Email(email) for email in emails] if emails else []
00086
00087
               address = [address] if address else [] record = Record(
00088
00090
                   name=name,
00091
                   birthday=birthday,
00092
                   phones=phones,
00093
                   emails=emails.
00094
                   address=address.
00095
00096
               self.data.append(record)
00097
00098
          def add_phone(self, name, phone):
00099
               for record in self.data:
                   if record.name == name:
00100
00101
                       record.phones.append(Phone(phone))
00102
               self.add_record(name=name, phones=[phone])
00103
00104
00105
          def add_email(self, name, email):
00106
               for record in self.data:
   if record.name == name:
00107
                       record.emails.append(Email(email))
00109
00110
               self.add_record(name=name, emails=[email])
00111
00112
          def add_address(self, name, address):
               for record in self.data:
00113
00114
                   if record.name == name:
00115
                       record.address.clear()
00116
                        record.address.append(address)
00117
               self.add_record(name=name, address=address)
00118
00119
          def add_birthday(self, name, birthday):
00121
               for record in self.data:
00122
                   if record.name == name:
00123
                        record.birthday.clear()
                        {\tt record.birthday.append(Birthday(birthday))}
00124
00125
00126
               self.add_record(name=name, birthday=[birthday])
00127
00128
          def remove_record(self, name):
00129
               for record in self.data:
00130
                   if record.name == name:
00131
                       self.data.remove(record)
00132
                        return True
00133
               return False
00134
00135
          def update_name(self, name, new_name):
00136
               for i, record in enumerate(self.data):
    if record.name == name:
00137
00138
                       self.data[i] = record._replace(name=new_name)
                        return True
00140
               return False
00141
00142
          def remove_address(self, name):
00143
               for record in self.data:
00144
                   if record.name == name:
00145
                       record.address.clear()
00146
                        return True
00147
               return False
00148
00149
          def delete_phone_by_index(self, name, phone_index):
00150
00151
               for record in self.data:
00152
                   if record.name == name:
00153
                       del record.phones[phone_index]
00154
                        return True
00155
               return False
00156
          def delete_email_by_index(self, name, email_index):
00157
00158
               for record in self.data:
00159
                   if record.name == name:
00160
                       del record.emails[email_index]
00161
                        return True
               return False
00162
00163
          00164
00165
00166
               today = datetime.today().date()
               upcoming = today + timedelta(days=days)
upcoming_bdays = AddressBook()
00167
00168
00169
               for record in self.data:
```

```
if record.birthday:
00171
                      birthday = (
                           datetime.strptime(record.birthday[0].value, "%d.%m.%Y")
00172
00173
                           .replace(year=today.year)
00174
                           .date()
00175
00176
                       if birthday.month == 2 and birthday.day == 29:
00177
00178
                           birthday = datetime(birthday.year + 1, 3, 1).date()
00179
00180
                           birthday = birthday.replace(year=today.year)
00181
                       if today <= birthday <= upcoming:</pre>
00182
                           upcoming_bdays.data.append(record)
00183
              return upcoming_bdays
00184
00185
          def find_records(self, search_term):
00186
              found contacts = AddressBook()
00187
00188
              for record in self.data:
00189
                  if (
00190
                       search_term in record.name
00191
                       or search_term in str(record.address)
                       or any(search_term in birthday.value for birthday in record.birthday)
00192
00193
                      or any(search_term in phone.value for phone in record.phones)
00194
                      or any(search_term in email.value for email in record.emails)
00195
00196
                       found_contacts.append(record)
00197
00198
              return found_contacts
00199
00200
          def find_contact_by_name(self, name):
00201
              for record in self.data:
00202
                  if record.name == name:
00203
                       return [record]
00204
              return None
00205
         def iterator(self, n: int = 10):
    """
00206
00207
00208
00209
              items = sorted(self.data)
00210
              for i in range(0, len(items), n):
                 data_slice = items[i : i + n]
00211
                  yield data_slice
00212
                  if i + n < len(items):
    yield "continue"</pre>
00213
00214
00215
```

8.5 D:/Projects/Programming/Python/GolTHW/Console_← Assistant/console assistant/CLI.py File Reference

Classes

- · class console assistant.CLI.Command
- · class console assistant.CLI.CommandCompleter
- · class console_assistant.CLI.CommandParser
- · class console_assistant.CLI.CommandExecutor
- · class console_assistant.CLI.InputReader
- · class console assistant.CLI.UserView
- · class console assistant.CLI.ConsoleView

Namespaces

- · namespace console assistant
- · namespace console assistant.CLI

Functions

- def console_assistant.CLI.input_error (func)
- def console assistant.CLI.hello (*args)
- def console assistant.CLI.good bye (*args)
- def console assistant.CLI.save (*args)
- def console assistant.CLI.load (*args)
- def console assistant.CLI.parse contact params (string)
- def console assistant.CLI.add contact (*args)
- def console assistant.CLI.remove contact (*args)
- def console_assistant.CLI.remove_phone (*args)
- def console assistant.CLI.remove email (*args)
- def console assistant.CLI.remove address (*args)
- def console_assistant.CLI.upcoming_birthdays (*args)
- def console_assistant.CLI.change_name (*args)
- def console assistant.CLI.search contact (*args)
- def console assistant.CLI.show_contact (*args)
- def console_assistant.CLI.build_contacts_table (contacts)
- def console_assistant.CLI._get_phones_str (phones)
- · def console assistant.CLI. get emails str (emails)
- def console assistant.CLI.show contacts (*args)
- def console assistant.CLI.add note (*args)
- def console assistant.CLI.remove note (*args)
- def console_assistant.CLI.add_tag (*args)
- def console assistant.CLI.build notes table (notes, original indices=False)
- def console_assistant.CLI.show_notes (*args)
- def console assistant.CLI.search notes (*args)
- def console_assistant.CLI.save_notes (*args)
- def console_assistant.CLI.change_note (*args)
- def console_assistant.CLI.remove_tag (*args)
- def console_assistant.CLI.load_notes (*args)
- def console assistant.CLI.get currency table (CurrencyList currency list)
- def console assistant.CLI.get currency (*args)
- def console assistant.CLI.get weather (*args)
- def console assistant.CLI.help commands (*args)
- def console_assistant.CLI.sort_folder_cli (*args)
- def console assistant.CLl.cls (*args)
- def console assistant.CLI.main ()

Variables

- · dict console assistant.CLI.COMMANDS
- AddressBook console_assistant.CLI.contacts = AddressBook()
- Notebook console assistant.CLI.notebook = Notebook()
- str console_assistant.CLI.NOTES_FILE = "notes.bin"
- str console assistant.CLI.CONTACT FILE = "contacts.bin"
- f console_assistant.CLI.HELLO_MESSAGE = f"{N}Hello, I'm an assistant v1.0.0 {G}(c) Team-9, Go ← IT 2023.{N}\nType {Y}help{N} for more information.{N}"

8.6 CLI.py

Go to the documentation of this file.

```
00002 from abc import ABC, abstractmethod
00003 import re
00004 import os
00005 import os.path
00006 from pathlib import Path
00007 from difflib import get\_close\_matches
80000
00009 from prompt_toolkit import PromptSession
00010 from prompt_toolkit.completion import Completion, Completer
00011 from prompt_toolkit.shortcuts import clear
00012
00013 from prettytable.colortable import ColorTable, Themes
00014
00015 from pygments import highlight
00016 from pygments.lexers import get_lexer_by_name 00017 from pygments.formatters import TerminalFormatter
00018 from prompt_toolkit.auto_suggest import AutoSuggestFromHistory
00019
00020 from bs4 import BeautifulSoup
00021 import requests
00022
00023 from console_assistant.addressbook import AddressBook
00024
00025 from console_assistant.notebook import Notebook
00026
00027 from console_assistant.curreny import CurrencyList
00028
00029 from console_assistant.serializer import PickleStorage
00031 from console_assistant.filesorter import sort_folder
00032
00033
00034 from console assistant.colors import *
00035
00036
00037 # -----# Decorator -----#
00038
00039
00040 def input error(func):
00041
         def wrapper(*func_args, **func_kwargs):
00042
            try:
00043
                 return func(*func_args, **func_kwargs)
             except KeyError as error:
    return "{}".format(R + str(error).strip("'") + N)
00044
00045
00046
             except ValueError as error:
00047
                 return f"{R+str(error)+N}"
             except TypeError as error:
                 return f"{R + str(error) + N}"
00049
00050
             except FileNotFoundError:
00051
                return R + "File not found" + N
             except IndexError:
00052
00053
                return R + "No such index" + N
00054
00055
        return wrapper
00056
00057
00058 # ============= handlers ===========#
00059
00061 def hello(*args):
00062
       return f"{G}How can I help you?{N}"
00063
00064
save(CONTACT_FILE)
00068
         save_notes(NOTES_FILE)
00069
         print("See you later.\nDotn't warry, your data was saved.")
         return "Good bye!"
00070
00071
00072
00073 @input_error
00074 def save(*args):
         if not args[0]:
00075
00076
            raise ValueError("Give me a filename.")
00077
00078
         home path = Path.home()
00079
         file_path = home_path / args[0]
08000
         PickleStorage.export_file(contacts, file_path)
00081
         return f"File {args[0]} saved."
00082
```

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```
00083
00084 @input_error
00085 def load(*args):
00086
         if not args[0]:
              raise ValueError("Give me a filename.")
00087
00088
          home_path = Path.home()
file_path = home_path / args[0]
00090
00091
          if PickleStorage.is_file_exist(file_path):
00092
               contacts.clear()
               contacts.update(PickleStorage.import_file(file_path))
00093
00094
               return f"File {args[0]} loaded."
00095
          else:
00096
              raise FileNotFoundError
00097
00098
00099 # =========
                                       00100
00101
00102 def parse_contact_params(string):
          phone_regex = re.compile(r"\d(10)") date_regex = re.compile(r"\d(2)\.\d(2)\.\d(4)") email_regex = re.compile(r"\\( | w.-| + ([a-zA-Z] + \.[a-zA-Z] (2, )"))
00103
00104
00105
00106
00107
          phone = phone_regex.search(string)
          date = date_regex.search(string)
00108
          email = email_regex.search(string)
00109
00110
00111
          phone = phone.group(0) if phone else None
00112
          date = date.group(0) if date else None
00113
          email = email.group(0) if email else None
00114
00115
          return phone, date, email
00116
00117
00118 @input_error
00119 def add_contact(*args):
00120
00121
          usage_message = (
00122
             f"Example of usage: {G}add contact {Y}Username{N} [phone1] [birthday] [email]."
00123
00124
          error_message = None
00125
          name = args[0]
if not name:
00126
00127
              error_message = "Please provide a name for the contact."
00128
00129
          if error_message:
              print(usage_message)
00130
00131
               raise ValueError(error_message)
00132
00133
          contacts.add_record(name)
00134
          rest_args = " ".join(args[1:]) if args[1:] != (None,) else False
00135
00136
          if rest_args:
               parsed_params = parse_contact_params(" ".join(args[1:]))
00137
00138
               phone = parsed_params[0]
birthday = parsed_params[1]
00140
               email = parsed_params[2]
00141
00142
               if phone:
00143
                   contacts.add phone (name, phone)
00144
00145
               if birthday:
00146
                  contacts.add_birthday(name, birthday)
00147
00148
               if email:
00149
                   contacts.add_email(name, email)
00150
00151
          return f"I added a info to contact {name} to the address book."
00152
00153
00154 @input_error
00155 def remove_contact(*args):
00156 """-handler ."""
00157
00158
          usage_message = f"Example of usage: {G}remove contact {Y}Username{N}."
00159
          error_message = None
00160
00161
          if not args[0]:
               error_message = "Give me a name, please."
00162
00163
00164
          if error_message:
00165
              print(usage_message)
00166
               raise KeyError(error_message)
00167
          result = contacts.remove_record(args[0])
00168
00169
```

```
if result:
              return f"Contact {args[0]} was removed."
00171
00172
          return f"{R}Contact {args[0]} not in address book{N}."
00173
00174
00175 # @input_error
00176 # def set_phone(*args):
00177 #
00178
00179 #
            usage_message = f"Example of usage: {G}set phone {Y}Username 0985467856{N}"
00180 #
           error_messageK, error_messageV = None, None
00181
00182 #
           if not args[0]:
00183 #
                error_messageK = "Give me a name, please."
00184 #
            if not args[1]:
00185 #
               error_messageV = "Give me a phone, please."
00186
00187 #
           if error messageK:
              print (usage_message)
00188 #
00189 #
                raise KeyError(error_messageK)
00190 #
           if error_messageV:
            print(usage_message)
00191 #
00192 #
                raise ValueError(error_messageV)
00193
00194 #
           contacts.add_phone(args[0], args[1])
00195
00196 #
           return f"I added a phone {args[1]} to contact {args[0]}"
00197
00198
00199 @input_error
00200 def remove_phone(*args):
00202
00203
         usage_message = f"Example of usage: {G}remove phone {Y}Username 1{N}"
          error_message = None
00204
00205
         if not args[0]:
             error_message = "Give me a name, please."
00206
         elif not args[1]:
00208
              error_message = "Give me an index of phone, please."
00209
          elif not args[1].isdigit():
00210
             error_message = "Index of phone must be a number."
         if error_message:
00211
00212
             print (usage_message)
00213
              raise ValueError(error_message)
00214
00215
         result = contacts.delete_phone_by_index(args[0], int(args[1]) - 1)
         if result:
    return f"I removed a phone of contact {args[0]}'
00216
00217
          return f"{R}No contact {args[0]} in AddressBook.{N}"
00218
00219
00220
00221 # @input_error
00222 # def set_email(*args):
00223 # """ email .""
00223 #
00224
00225 #
           usage_message = f"Example of usage: {G}set email {Y}Username my_mail@i.ua{N}"
00226 #
           error_messageK, error_messageV = None, None
00227
00228 #
           if not args[0]:
                error_messageK = "Give me a name, please"
00229 #
00230
00231 #
           if not args[1]:
00232 #
                error_messageV = "Give me a email, please"
00233
00234 #
            if error_messageK:
00235 #
               print (usage_message)
00236 #
                raise KeyError(error_messageK)
00237 #
           if error messageV:
00238 #
               print (usage_message)
00239 #
                raise ValueError(error_messageV)
00240
00241 #
           contacts.add_email(args[0], args[1])
00242
00243 #
           return f"I added a email {args[1]} to contact {args[0]}"
00244
00245
00246 @input_error
00247 def remove_email(*args):
00248 """ email ."""
00248
00249
00250
          usage_message = f"Example of usage: {G}remove email {Y}Username 1{N}"
00251
          error_message = None
         if not args[0]:
00252
00253
              error_message = "Give me a name, please"
00254
         elif not args[1]:
             error_message = "Give me an index of email, please."
00255
         elif not args[1].isdigit():
00256
```

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```
00257
              error_message = "Index of email must be a number."
00258
          if error_message:
00259
              print (usage_message)
00260
              raise ValueError(error_message)
00261
00262
          result = contacts.delete_email_by_index(args[0], int(args[1]) - 1)
00263
00264
00265
              return f"I removed a email of contact {args[0]}"
00266
          return f"{R}No contact {args[0]} in AddressBook.{N}"
00267
00268
00269 # @input_error
00270 # def set_address(*args):
00271 #
00272
00273 #
            usage\_message = f"Example \ of \ usage: \{G\} set \ address \ \{Y\} Username \ Address \ of \ user\{N\}"
00274 #
            error_messageK, error_messageV = None, None
00275
00276 #
            if not args[0]:
                error_messageK = "Give me a name, please"
00277 #
00278
00279 #
            if not args[1]:
                error_messageV = "Give me an address, please"
00280 #
00281
00282 #
            if error_messageK:
00283 #
                print(usage_message)
00284 #
                raise KeyError(error_messageK)
00285 #
            if error_messageV:
00286 #
               print(usage_message)
00287 #
                raise ValueError(error messageV)
00288
00289 #
            contacts.add_address(args[0], args[1])
00290
00291 #
            return f"I added a address {args[1]} to contact {args[0]}"
00292
00293
00294 @input_error
00295 def remove_address(*args):
00296 """ email ."""
00297
00298
          usage\_message = f"Example of usage: \{G\} set address \{Y\} Username Address of user\{N\}" error\_message = None
00299
00300
00301
          if not args[0]:
00302
              error_message = "Give me a name, please."
00303
00304
          if error_message:
00305
              print(usage_message)
              raise ValueError(error_message)
00306
00307
00308
          result = contacts.remove_address(args[0])
00309
          if result:
              return f"I removed a address of contact {args[0]}"
00310
          return f"{R}No contact {args[0]} in AddressBook.{N}
00311
00312
00313
00314 # @input_error
00315 # def set_birthday(*args):
00316 # """-handler ."""
00317
            usage_message = f"Example of usage: {G}set birthday {Y}Username 13.03.1989{N}"
00318 #
00319 #
            error_messageK, error_messageV = None, None
00320
00321 #
            if not args[0]:
00322 #
                error_messageK = "Give me a name, please"
00323
00324 #
            if not args[1]:
00325 #
                error_messageV = "Give me an birthday in format DD.MM.YYYY, please"
00326
00327 #
            if error_messageK:
00328 #
                print(usage_message)
00329 #
                raise KeyError(error_messageK)
00330 #
            if error_messageV:
00331 #
                print (usage message)
00332 #
                raise ValueError(error_messageV)
00333
00334 #
            contacts.add_birthday(args[0], args[1])
00335
00336 #
            return f"I added a birthday {args[1]} to contact {args[0]}"
00337
00338
00339 @input_error
00340 def upcoming_birthdays(*args):
00341
        if not args[0]:
              raise TypeError("Set days you interested")
00342
          days = int(args[0])
00343
```

```
result = contacts.upcoming_birthdays(days)
00345
          return f"{N}{build_contacts_table(result)}{N}"
00346
00347
00348 @input error
00349 def change name (*args):
00350
          usage_message = f"Example of usage: {G}change name {Y}Old_name New_name{N}"
00351
          error_message = None
00352
00353
          if not args[0]:
              error_message = "Give me a some name, please"
00354
00355
00356
          if not args[1]:
00357
              error_message = "Give me a new name, please"
00358
          if error_message:
00359
              print(usage_message)
00360
00361
              raise ValueError(error message)
00362
00363
          result = contacts.update_name(args[0], args[1])
00364
          if result:
              return f"I updatw name {args[0]} -> {args[1]}"
00365
          return f"{R}No contact {args[0]} in AddressBook.{N}"
00366
00367
00368
00369 @input_error
00370 def search_contact(*args):
00371
          if not args[0]:
00372
              raise KeyError("Give me a some name, please")
00373
00374
          results = contacts.find records(args[0])
00375
00376
00377
              return f"{N}{build_contacts_table(results)}{N}"
00378
          return "By your request found nothing"
00379
00380
00381 @input_error
00382 def show_contact(*args):
00383 if not args[0]:
00384
              raise KeyError("Give me a some name, please")
          result = contacts.find_contact_by_name(args[0])
00385
00386
          if result is not None:
    return f"{N}{build_contacts_table(result)}{N}"
00387
          return f"{R}Contact {args[0]} not found.{N}"
00388
00389
00390
00391 def build_contacts_table(contacts):
00392
          table = ColorTable(theme=Themes.OCEAN)
          table.field_names = ["#", "Name", "Birthday", "Phones", "Emails", "Address"] table.align["Emails"] = "l"
00393
00394
00395
           # table.set_style(SINGLE_BORDER)
00396
          for i, record in enumerate(contacts):
              birthday = record.birthday[0].value if record.birthday else "-"
address = record.address[0] if record.address else "-"
00397
00398
              phones_str = _get_phones_str(record.phones)
emails_str = _get_emails_str(record.emails)
00399
00400
00401
               table.add_row(
00402
                  [
                       f"{W}{i + 1}{N}",
00403
                       f"{G}{record.name}{N}",
00404
                       f"{B}{birthday}{N}",
00405
00406
                       phones_str,
00407
                       emails_str,
00408
                       f"{Y}{address}{N}",
00409
00410
                   divider=True,
00411
              )
00412
          return table
00413
00414
00415 def _get_phones_str(phones):
00416
        if not phones:
              return "-"
00417
          phones_str = ""
00418
00419
          for i, phone in enumerate (phones):
00420
              phones_str += f''(W)(i+1). {B}{phone.value}{N}\n"
00421
          return phones_str[:-1]
00422
00423
00424 def _get_emails_str(emails):
        if not emails:
00426
               return "-"
          emails_str = ""
00427
          for i, email in enumerate(emails):
00428
              emails_str += f"{W}{i+1}. {P}{email.value}{N}\n"
00429
00430
          return emails_str[:-1]
```

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```
00431
00432
00433 @input_error
00434 def show_contacts(*args):
00435
         number of entries = (
00436
              int(args[0])
              if args[0] is not None and isinstance(args[0], str) and args[0].isdigit()
00438
00439
         )
00440
00441
          current_contact_num = 1 #
00442
          for tab in contacts.iterator(number_of_entries):
              if tab == "continue":
00443
00444
                   input(G + "Press <Enter> to continue..." + N)
00445
               else:
00446
                  table = build_contacts_table(tab)
                   # table.align["Emails"] = "1"
00447
00448
00449
                  for i, row in enumerate(table._rows):
                       row[0] = current_contact_num + i
00450
00451
                   print(table)
00452
00453
                  current_contact_num += len(tab)
00454
          return f"Address book contain {len(contacts)} contact(s)."
00455
00456
                                           _____#
00457 # ==============
00458
00459
00460 @input error
00461 def add note(*args):
         usage_message = f"Example of usage: {G}add note {Y}Tag Text{N}"
error_message = None
00463
00464
          if args[0] is None:
          error_message = "Give me a tag and text, please."
elif args[0] is not None and args[0].isdigit():
00465
00466
              error_message = "Tag cannot be a number."
00467
          elif not args[1]:
00469
              error_message = "Give me a text, please."
00470
          if error_message:
00471
             print(usage_message)
00472
              raise ValueError(error_message)
00473
00474
          notebook.add_note([args[0]], args[1])
         return "I added note"
00475
00476
00477
00478 @input_error
00479 def remove_note(*args):
00480
       if not args[0]:
             raise ValueError("Give me an index first.")
00482
          if not args[0].isdigit():
00483
              raise ValueError("Index must be a number.")
00484
          notebook.remove_note(int(args[0]))
          return "I removed note"
00485
00486
00488 @input_error
00489 def add_tag(*args):
         usage_message = f"Example of usage: {G}add tag {Y}1 Tag{N}" error_message = None
00490
00491
00492
          if args[0] is None:
00493
              error_message = "Give me an index first, please."
00494
          elif not args[0].isdigit():
00495
              error_message = "Index must be a number."
          elif args[1] is None:
    error_message = "Give me a tag, please."
00496
00497
          elif args[1].isdigit():
00498
00499
              error_message = "Tag cannot be a number."
00501
          if error_message:
00502
              print(usage_message)
00503
              raise ValueError(error_message)
00504
          notebook.add_tag(int(args[0]), args[1])
return f"I added tag {args[1]} to note {args[0]}."
00505
00506
00507
00508
00509 def build_notes_table(notes, original_indices=False):
00510
          table = ColorTable(theme=Themes.OCEAN)
          table.field_names = ["Index", "Tags", "Creation Date", "Text"]
00511
          table.max_width["Text"] = 79
00513
          # table.set_style(SINGLE_BORDER)
00514
          for note, index in notes:
00515
              if original_indices:
00516
                  index = notebook.data.index(note)
00517
              date_str = note.date.strftime("%Y-%m-%d %H:%M:%S")
```

```
00518
              table.add_row(
00519
                  [
00520
                       f"{W}{index}{N}",
00521
                       G + ", ".join(note.tags) + N,
                       f"{Y}{date_str}{N}",
f"{B}{note.text}{N}",
00522
00523
00524
00525
                   divider=True,
00526
00527
          return table
00528
00529
00530 # @input_error
00531 def show_notes(*args):
00532
        if len(notebook) != 0:
              if args[0] is None or not args[0].isdigit():
   notes = notebook.display_notes(tag=args[0] or None, original_indices=True)
00533
00534
00535
                  print (build_notes_table (notes, original_indices=True))
              else:
00537
                  n = int(args[0])
                   for i, tab in enumerate(notebook.iterator_notes(n)):
    if tab == "continue":
00538
00539
                           input(G + "Press <Enter> to continue..." + N)
00540
00541
                       else:
00542
                           table = build_notes_table(tab)
00543
                           print(table)
00544
          return f"Notes book contain {len(notebook)} note(s)."
00545
00546
00547 @input error
00548 def search_notes(*args):
       if not args[0]:
00550
              raise KeyError("Please, add searh query")
00551
         results = notebook.find_notes(args[0])
         if not results:
    return f"{R}Nothing found for {args[0]}{N}"
00552
00553
         return build_notes_table(results)
00554
00556
00557 @input_error
00558 def save_notes(*args):
00559
       if not args[0]:
             raise ValueError("Give me a filename")
00560
00561
          home_path = Path.home()
00562
          file_path = home_path / args[0]
00563
          PickleStorage.export_file(notebook, file_path)
00564
          return f"File {args[0]} saved"
00565
00566
00567 @input_error
00568 def change_note(*args):
00569
         if not args[0]:
00570
              raise KeyError("Please, set integer index")
00571
00572
          notebook.change_note(int(args[0]), args[1])
00573
00574
          return f"I changed note {args[0]}"
00575
00576
00577 @input_error
00578 def remove_tag(*args):
00579
          if not args[0]:
    raise ValueError("Give me an index first.")
00580
00581
          if not args[0].isdigit():
00582
              raise ValueError("Index must be a number.")
          if not args[1]:
00583
00584
              raise ValueError("Give me a tag, please.")
00585
00586
          result = notebook.remove_tag(int(args[0]), args[1])
          if result:
00588
              return f"I changed tag {args[1]} for note with index {args[0]}"
00589
          else:
00590
              raise ValueError(f"Tag {args[1]} not found for this note")
00591
00592
00593 @input_error
00594 def load_notes(*args):
00595
        if not args[0]:
              raise ValueError("Give me a filename")
00596
00597
00598
          home_path = Path.home()
          file_path = home_path / args[0]
00600
          if PickleStorage.is_file_exist(file_path):
00601
              notebook.clear()
00602
              notebook.update(PickleStorage.import_file(file_path))
00603
              return f"File {args[0]} loaded"
00604
          else:
```

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```
00605
             raise FileNotFoundError
00606
00607
00608 # ============== #
00609
00610
00611 def get_currency_table(currency_list: CurrencyList):
00612
          table = ColorTable(theme=Themes.OCEAN)
         table.max_width["Currency"] = 30
table.max_width["Short Name"] = 15
table.max_width["Rate"] = 10
00613
00614
00615
          table.align["Short Name"] = "c"
00616
         table.align["Rate"] = "c"
table.field_names = ["Currency", "Short Name", "Rate"]
00617
00618
00619
         for currency in currency_list.get_currency_rates():
00620
             table.add_row([currency.name, currency.cc, currency.rate])
00621
         return table
00622
00623
00624 @input_error
00625 def get_currency(*args):
00626
          return get_currency_table(CurrencyList())
00627
00628
00629 # ------ # ------ #
00631 #!
00632
00633
00634 def get_weather(*args):
00635
         city = args[0]
url = f"https://ua.sinoptik.ua/-{city}"
00636
00637
          response = requests.get(url)
00638
          soup = BeautifulSoup(response.content, "html.parser")
         temperature = soup.select_one(".today-temp")
description = soup.select_one(".description")
00639
00640
00641
00642
          if temperature and description:
00643
              temperature = temperature.text
00644
              description = description.text.strip()
00645
00646
              table = ColorTable(theme=Themes.OCEAN)
             table.field_names = ["City", "Temperature", "Description"]
table.add_row([f"{Y}{city}{N}", f"{G}{temperature}{{N}}", description])
00647
00648
              table._max_width = {"Description": 79}
00650
00651
             return table
00652
         else:
              return f"Unable to find weather information for {city}."
00653
00654
00655
00656 # ------ #
00657 def help_commands(*args):
00658
00659
00660
          PACKAGE ROOT = os.path.abspath(os.path.dirname( file ))
          README_PATH = os.path.join(PACKAGE_ROOT, "../README.md")
00661
00662
00663
          if not os.path.exists(README_PATH):
00664
              return R + f"File {README_PATH} not found." + N
00665
         with open(README_PATH, "r") as file:
00666
00667
             code = file.read()
              lexer = get_lexer_by_name("markdown")
00668
00669
              formatted_code = highlight(code, lexer, TerminalFormatter())
00670
              return formatted_code
00671
00672
00673 @input_error
00674 def sort_folder_cli(*args):
00675 if not args[0]:
00676
             raise ValueError("Give me a folder name, please.")
00677
         return sort_folder(args[0])
00678
00679
00680 def cls(*args):
00681
         clear()
00682
          return HELLO_MESSAGE
00683
00684
00685 # ------ handler loader ------#
00686
00687 class Command:
00688
         def __init_
                     _(self, name, handler, description=None, example=None):
00689
              self.name = name
             self.description = description
self.example = example
00690
00691
```

```
00692
                self.handler = handler
00693
00694
00695 COMMANDS = {
           # --- Hello commands ---
00696
            "help": Command("help", help_commands),
00697
            "hello": Command("hello", hello),
00699
            # --- Manage contacts --
            "add contact": Command("add contact", add_contact),
00700
            # "set phone": Command("set phone", set_phone),
00701
            "remove phone": Command("remove phone", remove_phone),
00702
            # "set email": Command("set email", set_email),
00703
            "remove email": Command("remove email", remove_email),
# "set address": Command("set address", set_address),
00704
00705
00706
            "remove address": Command("remove address", remove_address),
            # "set birthday": Command("set birthday", set_birthday),
"upcoming birthdays": Command("upcoming birthdays", upcoming_birthdays),
00707
00708
            "show contacts": Command("show contacts", show_contacts),
"search contact": Command("search contact", search_contact),
00709
00711
            "show contact": Command("show contact", show_contact),
00712
            "remove contact": Command("remove contact", remove_contact),
00713
            "change name": Command("change name", change_name),
            "save": Command("save", save),
"load": Command("load", load),
00714
00715
00716
00717
            "currency": Command("currency", get_currency),
00718
00719
            "weather in": Command("weather in", get_weather),
00720
            # --- Manage notes -
            "add note": Command("add note", add_note),
00721
00722
            "add tag": Command("add tag", add_tag),
00723
            "remove note": Command("remove note", remove_note),
00724
            "show notes": Command("show notes", show_notes),
            "save notes": Command("save notes", save_notes),
"load notes": Command("load notes", load_notes),
"search notes": Command("search notes", search_notes),
00725
00726
00727
00728
            "change note": Command("change note", change_note),
            "remove tag": Command("remove tag", remove_tag),
00730
            # --- Sorting folder commnad -
00731
            "sort folder": Command("sort folder", sort_folder_cli),
00732
            # --- Googd bye commnad --
            "good bye": Command("good bye", good_bye),
00733
            "close": Command("close", good_bye),
"exit": Command("exit", good_bye),
00734
00735
00736
            "cls": Command("cls", cls),
00737 }
00738
00739 class CommandCompleter(Completer):
00740
           def get_completions(self, document, complete_event):
               text_before_cursor = document.current_line_before_cursor
00741
00742
                command, _, rest = text_before_cursor.partition("
00743
00744
                    matches = [c for c in COMMANDS if c.startswith(command)]
                     for m in matches:
00745
                         yield Completion(m, display=m, start_position=-len(command))
00746
00747
00748 class CommandParser:
00749
          def __init__(self, commands):
                self.commands = commands
self.command_pattern = "|".join(commands)
00750
00751
                self.pattern = re.compile(
    r"\b(\.|"
00752
00753
00754
                     + self.command_pattern
00755
                     + r") b(?:\s+([--a-zA-Z0-9\.\:\\_\-]+))?(?:\s+(.+))?",
00756
                     re. IGNORECASE,
00757
                )
00758
00759
           def parse command(self, command):
00760
                text = self.pattern.search(command)
00761
00762
                params = (
00763
                    tuple(
00764
                         map(
00765
                              lambda x: x.lower() if text.groups().index(x) == 0 else x,
00766
                              text.groups(),
00767
                         )
00768
00769
                     if text
00770
                     else (None, command, 0)
00771
                )
00772
00773
                return params
00774
00775
00776 class CommandExecutor:
00777
           def __init__(self, commands):
    self.commands = commands
00778
```

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```
00779
00780
         def execute_command(self, command, *args):
00781
             handler = self.commands.get(command)
             if handler is None:
00782
                 if command not in COMMANDS:
00783
00784
                    matches = get_close_matches(args[0], COMMANDS)
00785
                    if matches:
00786
                       suggestion = matches[0]
00787
                        suggestion + N}?" # noqa
00788
                   else:
                       return R + "What do you mean?" + N
00789
00790
                else:
00791
                    return "Command not implemented"
00792
             else:
00793
                return handler.handler(*args)
00794
00795
00796 class InputReader:
00797 def __init__(self):
00798 self.session = PromptSession(completer=CommandCompleter(), complete_while_typing=True,
     auto_suggest=AutoSuggestFromHistory()) # noqa
00799
00800
         def wait_for_input(self):
00801
            while True:
              inp = self.session.prompt("»> ")
00802
00803
                 if inp == "":
00804
                     continue
                break
00805
00806
             return inp
00807
80800
00809
00810 # ------ main function ----- #
00811
00812 contacts = AddressBook()  # Global variable for storing contacts
00813 notebook = Notebook() # Global variable for storing notes
00815
00816 NOTES_FILE = "notes.bin"
00817 CONTACT_FILE = "contacts.bin"
00818 HELLO_MESSAGE = f"{N}Hello, I'm an assistant v1.0.0 {G}(c) Team-9, GoIT 2023.{N}\nType {Y}help{N} for
     more information.{N}" # noqa
00820 class UserView(ABC):
00821
         @abstractmethod
00822
         def display(self, data):
00823
00824 class ConsoleView(UserView):
00825 def display(self, data):
00826
           print(data)
00827
00828
00829 def main():
         os.system("cls" if os.name == "nt" else "clear")
00830
00831
         print (HELLO_MESSAGE)
         load(CONTACT_FILE)
00833
         load_notes(NOTES_FILE)
00834
         parser = CommandParser(COMMANDS)
00835
         executor = CommandExecutor(COMMANDS)
         reader = InputReader()
00836
         console_view = ConsoleView()
00837
00838
         while True:
00839
           command = reader.wait_for_input()
00840
             if command.strip() == ".":
                save (CONTACT_FILE)
00841
00842
                save_notes(NOTES_FILE)
00843
00844
             if command.strip() == "*":
00845
                return
00846
00847
            params = parser.parse_command(command)
             response = executor.execute_command(params[0], *params[1:])
00848
             console_view.display(f"{G}{response}{N}")
00849
00850
00851
             if response == "Good bye!":
00852
00853
00854
00855 # ----- main program ----- #
00856
00857 if __name__ == "__main__":
00858
         main()
```

8.7 D:/Projects/Programming/Python/GoITHW/Console_← Assistant/console_assistant/colors.py File Reference

Namespaces

- · namespace console_assistant
- namespace console_assistant.colors

Variables

```
str console_assistant.colors.G = "\033[1;92m"
str console_assistant.colors.B = "\033[1;96m"
str console_assistant.colors.P = "\033[4;95m"
str console_assistant.colors.R = "\033[1;91m"
str console_assistant.colors.N = "\033[0m"
str console_assistant.colors.Y = "\033[0;93m"
str console_assistant.colors.W = "\033[97m"
```

8.8 colors.py

Go to the documentation of this file.

```
00001 G = "\033[1;92m" # GREEN

00002 B = "\033[1;96m" # Blue

00003 P = "\033[4;95m" # Pink

00004 R = "\033[1;91m" # Red

00005 N = "\033[0m" # Reset

00006 Y = "\033[0;93m" # Yellow

00007 W = "\033[97m" # White
```

8.9 D:/Projects/Programming/Python/GoITHW/Console_ Assistant/console_assistant/curreny.py File Reference

Classes

· class console_assistant.curreny.CurrencyList

Namespaces

- · namespace console assistant
- · namespace console_assistant.curreny

Functions

• def console_assistant.curreny.get_currency_table (CurrencyList currency_list)

Variables

- namedtuple console_assistant.curreny.Currency = namedtuple("Currency", ["name", "rate", "cc"])
- CurrencyList console_assistant.curreny.cur = CurrencyList()

8.10 curreny.py 97

8.10 curreny.py

```
Go to the documentation of this file.
00001 from collections import namedtuple, UserList
00002 import requests
00003 from prettytable import PrettyTable
00005
00006 Currency = namedtuple("Currency", ["name", "rate", "cc"])
00007
00008
00009 class CurrencyList(UserList):
         URL = "https://bank.gov.ua/NBUStatService/v1/statdirectory/exchangenew?json"
00011
00012
         def __init__(self):
             super().__init__()
self.refresh()
00013
00014
00015
00016
         def refresh(self):
00017
             response = requests.get(self.URL)
00018
              data = response.json()
00019
              for item in data:
                  if item.get("cc") in ("USD", "EUR", "XAU", "XAG", "XPT", "XPD"):
00020
                      currency = Currency(item.get("txt"), item.get("rate"), item.get("cc"))
00021
00022
                      self.data.append(currency)
00023
00024
         def get_currency_by_cc(self, cc: str) -> Currency:
         for currency in self.data:
00025
00026
               if currency.cc == cc:
00027
                      return currency
00028
        def get_currency_rates(self):
00030
             return self.data
00031
00032
00034
         def get currency table(currency list: CurrencyList):
00036
             table = PrettyTable()
00037
              table.max_width["Currency"] = 30
             table.max_width["Short Name"] = 15
table.max_width["Rate"] = 10
00038
00039
             table.align["Short Name"] = "c"
table.align["Rate"] = "c"
00040
00042
              table.field_names = ["Currency", "Short Name", "Rate"]
00043
             for currency in currency_list.get_currency_rates():
00044
                  table.add_row([currency.name, currency.cc, currency.rate])
00045
            return table
00046
00047
         cur = CurrencyList()
         get_currency_table(cur)
```

8.11 D:/Projects/Programming/Python/GolTHW/Console_ Assistant/console assistant/file copies deleter.py File Reference

Namespaces

- · namespace console assistant
- · namespace console_assistant.file_copies_deleter

Functions

- def console_assistant.file_copies_deleter.count_files (abs_path, file_format=""")
- def console_assistant.file_copies_deleter.get_hash (path_to_file)
- def console_assistant.file_copies_deleter.count_copies (dir_path, file_format="")
- def console_assistant.file_copies_deleter.delete_files (hash_dictionary)
- def console_assistant.file_copies_deleter.delete_empty_folders (path)
- def console_assistant.file_copies_deleter.copies_deleter (root)

8.12 file copies deleter.py

Go to the documentation of this file.

```
00001 import os
00002 from os import walk
00003 import hashlib
00004 import time
00005 from os.path import join, getsize
00006
00007 from .colors import G, R, N, Y
80000
00009 # Getting an absolut path to directory with files
00010 # def get_path_dir():
            abs_path = input("Please, enter the absolute path to directory: ")
00012 #
            if len(abs_path) == 0:
00013 #
                print ("Directory is not specified. Try again.\n")
            elif os.path.isdir(abs_path):
00014 #
00015 #
                return abs_path
00016 #
            else:
00017 #
                print("Entered path doesn't exist. Try again.\n")
00018
00019
00020 def count_files(abs_path, file_format=""):
00021
          total count files = 0
00022
          for root, _, files in walk(abs_path, topdown=True):
              for file in files:
00024
00025
                   if file.endswith(file_format):
00026
                       total\_count\_files += 1
00027
00028
          print(f"{G}Files found:{N} {Y}{total_count_files}{N}")
00031 # The function takes absolute path to file and returns its hash
00032 def get_hash(path_to_file):
          blocksize = 65536
file_hash = hashlib.md5(open(path_to_file, "rb").read(blocksize)).hexdigest()
00033
00034
00035
          return file_hash
00036
00037
00038 \# This function returns the number of copies found and the dictionary as
00039 # {hash_1: [path_to_file1, path_to_file1...], hash_2: [path_to_file3, path_to_file4...]...}
00040 def count_copies(dir_path, file_format=""):
          copy_count = 0
00042
          hash_dict = {}
00043
00044
          for root, _, files in walk(dir_path, topdown=True):
00045
              for file in files:
                  if file.endswith(file_format):
00046
00047
                       file_path = join(root, file) # Absolut path to file
00048
                       file_hash = get_hash(file_path) # File's hash
00049
00050
00051
                       if file_hash in hash_dict.keys():
00052
                           copy_count += 1
                           hash_dict[file_hash].append(file_path)
00053
00054
                       else:
00055
                           hash_dict[file_hash] = [file_path]
00056
00057
          return copy_count, hash_dict
00058
00059
00060 # Check if the hash key is already in the dictionary; if it is, delete the new file by its path
00061 def delete_files(hash_dictionary):
00062
          total_deleted = 0
          for path_dict in hash_dictionary.values():
00063
              for file path in path_dict[1:]:
    total_deleted += getsize(file_path) / (1024 * 1024) # size in MB
00064
00065
00066
                  os.remove(file_path) # Deleting a file
00067
00068
          return round(total deleted, 2)
00069
00070
00071 # The function deletes empty folders that may have formed after deleting copies
00072 def delete_empty_folders(path):
          for element in os.scandir(path):
00074
              if os.path.isdir(element):
00075
                  full_path = os.path.join(path, element)
                  delete_empty_folders(full_path) # recursion
00076
                  if not os.listdir(full_path):
00077
                      os.rmdir(full_path) # remove empty folder
00078
08000
00081 def copies_deleter(root):
00082
          path_to_dir = root
```

```
00083
          count_files(path_to_dir)
00084
00085
          print("Looking for copies...")
00086
         time.sleep(0.5)
00087
00088
         copy_count, hash_dict = count_copies(path_to_dir)
         print(f"{G}Copies found:{Y} {copy_count}{N}")
00090
00091
         if copy_count != 0:
             while True:
00092
00093
                 want_delete = input(
00094
                     f"{G}Do you want to delete the detected copies <math>(y/n)?{N}"
00095
00096
00097
                 if want_delete in ("yes", "YES", "Y", "y"):
00098
                     total_deleted = delete_files(hash_dict)
                      print(f"Deleted {total_deleted} ")
00099
00100
                     time.sleep(3)
00101
                 elif want_delete in ("n", "N", "no", "NO"):
00102
                     print(f"{G}Ok{N}")
00103
00104
                      time.sleep(2)
00105
                 else:
00106
00107
                     print(f"{R}You entered a non-existent command. Please try again.{N}\n")
00108
            delete_empty_folders(path_to_dir)
00109
00110
        return "Done"
00111
00112
00113 if __name__ == "__main__":
         copies_deleter("d:\\Different\\Garbage\\")
00114
```

8.13 D:/Projects/Programming/Python/GoITHW/Console_ Assistant/console_assistant/filesorter.py File Reference

Namespaces

- namespace console_assistant
- · namespace console_assistant.filesorter

Functions

- def console_assistant.filesorter.get_file_cathegory (str file)
- def console_assistant.filesorter.normalise_file_name (str file)
- def console assistant.filesorter.create folders (root)
- def console_assistant.filesorter.organize_files (path, level=0, known_exts=set(), unknown_exts=set(), cate-gories=set())
- def console_assistant.filesorter.unpack (archive_path, path_to_unpack)
- · def console assistant.filesorter.remove empty (path)
- · def console assistant.filesorter.known exts (root)
- def console_assistant.filesorter.sort_folder (root)

Variables

· dict console assistant.filesorter.EXT FOLDER

8.14 filesorter.py

Go to the documentation of this file.

```
00001 import shutil
00002 from pathlib import Path
00003 from .file_copies_deleter import copies_deleter
00005 from .normaliser import normalise
00006
00007 from .colors import G, R, N, Y
80000
00009
00010 EXT_FOLDER = {
          [_FOLDER = {
    ("mp3", "ogg", "waw", "amr"): "audio",
    ("avi", "mp4", "mov", "mkv", "flv"): "video",
    ("jpeg", "png", "jpg", "svg"): "images",
    ("doc", "docx", "txt", "xlsx", "xls", "pptx"): "documents",
    ("djvu", "djv", "pdf", "tiff"): "books",
    ("zip", "gz", "tar", "7z"): "archives",
00012
00013
00014
00015
00016
00017 }
00018
00019 """ ------"""
00020
00021
00022 def get_file_cathegory(file: str):
00023
00024
00025
           the_path = Path(file)
00026
          ext = the_path.suffix.lstrip(".")
00027
00028
           for exts in EXT_FOLDER.keys():
           if ext in exts:
00030
                    return EXT_FOLDER[exts]
           return None
00031
00032
00033
00034 def normalise_file_name(file: str):
00035
                     normalise."""
00036
           the_path = Path(file)
00037
           normalised_name = normalise(the_path.stem)
new_file_path = the_path.parent.joinpath(
00038
00039
00040
                "".join([normalised_name, the_path.suffix])
00041
00042
           the_path.rename(new_file_path)
00043
           return new_file_path
00044
00045
00046 def create_folders(root):
                   root""
00047
00048
00049
           for folder in EXT_FOLDER.values():
00050
               Path(root).joinpath(folder).mkdir(exist_ok=True)
00051
00052
00053 def organize_files(
00054
           path, level=0, known_exts=set(), unknown_exts=set(), categories=set()
00055):
00056
00057
00058
           the_path = Path(path)
00059
           if level == 0:
               global root_path
00061
                root_path = the_path.resolve()
00062
00063
           for item in the_path.iterdir():
               if item.is_dir() and item.name not in EXT_FOLDER.values():
    organize_files(item.resolve(), level + 1)
00064
00065
                else:
00066
00067
                   category = get_file_cathegory(item.name)
00068
                     if category:
00069
00070
                         categories.add(category)
00071
                         known_exts.add(item.suffix)
00072
                         item = normalise file name(item)
00074
                         root_name = Path(root_path).joinpath(category, item.name)
00075
                         shutil.move(item, Path(root_path).joinpath(category))
00076
                         if category == "archives":
00077
                             unpack (
00078
                                   root name,
00079
                                  Path(root_path).joinpath(category, item.stem),
00080
00081
00082
                         if item.is_file():
```

```
00083
                         unknown_exts.add(item.suffix)
00084
          return tuple(unknown_exts)
00085
00086
00087 def unpack(archive_path, path_to_unpack):
00088
00090
00091
             shutil.unpack_archive(archive_path, path_to_unpack)
00092
         except OSError as er:
            print(er)
00093
00094
00095
00096 def remove_empty(path):
00097
00098
00099
         the_path = Path(path)
00100
         empty = True
00101
         for item in the_path.glob("*"):
         if item.is_file():
00102
                 empty = False
00103
            if item.is_dir() and not remove_empty(item):
00104
00105
                empty = False
00106
00107
        if empty:
00108
             path.rmdir()
        return empty
00109
00110
00111
00112 def known_exts(root):
00113 exts = set()
00114 for item in Path(root).iterdir():
00115
          if item.is_dir():
             for file in item.iterdir():
00116
                   if file.is_file():
00117
                         exts.add(file.suffix)
00118
        return exts
00119
00121
00122 """ =============
00123
00124
00125 def sort folder(root):
       path = Path(root)
if not path.is_dir():
00126
00127
00128
             return f"{Y}Warning!{N} The {root} is not a valid path!"
00129
       f"{Y}WARNING! {G}Are you sure you want to sort the files in CATALOG {Y + root}{N}? (y/n): ")
00130
00131
00132
00133
00134
         if agreement not in ("y", "Y", "yes", "Yes", "YES"):
00135
             return f"{G}Operation approved!{N}"
00136
         copies_deleter(root)
00137
00138
         create folders(root)
         unknown_exts = organize_files(root)
00140
         remove_empty(root)
00141
         ke = ", ".join([ext for ext in known_exts(root)])
00142
         print(f"{G}Known extensions:{N} {ke}")
00143
00144
00145
         if unknown_exts:
00146
                     ".join([ext for ext in unknown_exts])
             print(f"{R}Unknown extensions:{N} {ue}")
00147
00148
00149
        for item in path.iterdir():
           if item.is_dir():
00150
00151
                 num_of_files = sum(1 for file in item.iterdir() if file.is_file())
00152
00153
                    f"{G}Folder {Y}{item.name}{G} contain {Y}{num_of_files}{G} file(s){N}"
00154
00155
         return f"{G}Folder {Y}{root}{G} sorted!{N}"
00156
```

8.15 D:/Projects/Programming/Python/GoITHW/Console_ Assistant/console_assistant/normaliser.py File Reference

Namespaces

namespace console_assistant

· namespace console_assistant.normaliser

Functions

• def console_assistant.normaliser.normalise (name)

8.16 normaliser.py

Go to the documentation of this file.

```
00001 from transliterate import translit
00002 from string import ascii_letters, digits
00003
00004
00005 def normalise(name):
00006 transliterated = translit(
        name, language_code="ru", reversed=True
)  # from latin to cyrillic
normalized_name = "".join(
00007
80000
00009
00010
              [
00011
00012
                    char if char in ascii_letters or char in digits else "_"
                    for char in transliterated
00013
               ]
00014
00015
           return normalized_name
00016
```

8.17 D:/Projects/Programming/Python/GoITHW/Console_ Assistant/console_assistant/notebook.py File Reference

Classes

class console_assistant.notebook.Notebook

Namespaces

- · namespace console_assistant
- namespace console_assistant.notebook

Variables

• namedtuple console assistant.notebook.Note = namedtuple("Note", ["tags", "date", "text"])

8.18 notebook.py 103

8.18 notebook.py

Go to the documentation of this file. 00001 from collections import namedtuple, UserList 00002 from datetime import datetime 00003 00004 Note = namedtuple("Note", ["tags", "date", "text"]) 00005 00006 00007 class Notebook(UserList): 00008 def update(self, notes): 00009 self.data.clear() 00010 00011 self.data.extend(notes) 00012 00013 def add_note(self, tags, note_text): 00014 00015 note = Note(tags=tags, date=datetime.now(), text=note_text) 00016 00017 self.data.append(note) 00018 00019 def remove_note(self, index): 00020 self.data.pop(index) 00021 00022 00023 def display_notes(self, tag=None, original_indices=False): 00024 original_indices=True""" notes = self.data 00025 00026 if tag is not None: notes = [note for note in notes if tag in note.tags] 00027 00028 if original indices: notes = [00029 00030 (note, index) for index, note in enumerate(self.data) if note in notes 00031 00032 return notes 00033 00034 def iterator_notes(self, n: int = 10): 00035 00036 items = self.data 00037 for i, note in enumerate(items): 00038 if i % n == 0: items[i : i + n]00039 yield [(note, j) for j in range(i, i + n) if j < len(items)] if i + n < len(items):</pre> 00040 00041 00042 yield "continue' 00043 def find_notes(self, search_term): 00044 00045 search_term = search_term.lower() 00046 00047 results = [] for i, note in enumerate(self.data): 00049 if search_term in note.text.lower(): 00050 results.append((note, i)) 00051 return results 00052 00053 def sort_notes_by_tag(self): 00054 00055 return sorted(self.data, key=lambda note: tuple(note.tags)) 00056 00057 def add_tag(self, index, tag): 00058 00059 note = self.data[index] note_tags = list(note.tags) 00060 00061 00062 if tag not in note_tags: 00063 note_tags.append(tag) 00064 self.data[index] = note._replace(tags=tuple(note_tags)) 00065 00066 def change_note(self, index, new_text): 00067 note = self.data[index] 00068 00069 self.data[index] = note._replace(text=new_text) 00070 00071 def __len__(self): 00072 return len(self.data) 00073 00074 def remove_tag(self, index, tag): 00075 note = self.data[index] 00076 00077 note_tags = list(note.tags) 00078 if tag in note_tags: note_tags.remove(tag) 00080 self.data[index] = note._replace(tags=tuple(note_tags)) 00081 return True

return False

00082

8.19 D:/Projects/Programming/Python/GoITHW/Console_ Assistant/console_assistant/serializer.py File Reference

Classes

- · class console_assistant.serializer.Storage
- · class console_assistant.serializer.PickleStorage

Namespaces

- · namespace console_assistant
- · namespace console_assistant.serializer

8.20 serializer.py

```
Go to the documentation of this file.
00002
00003 import pickle
00004 from pathlib import Path
00006
00007 class Storage:
00008 def export_file(object, filename: str):
00009 raise NotImplementedError
00010
00011
        def import_file(object, filename: str):
00012
           raise NotImplementedError
00013
00014
00015 class PickleStorage(Storage):
filename = Path(filename)
00018
00019
             with filename.open(mode="wb") as file:
00020
                 pickle.dump(obj, file)
00021
       @staticmethod
def import_file(filename):
00022
         filename = Path(filename)
             with filename.open(mode="rb") as file:
00025
00026
                 return pickle.load(file)
00027
       @staticmethod
00028
      def is_file_exist(filename):
        filename = Path(filename)
00031
            if filename.exists():
00032
                 return True
            return False
00033
```

- 8.21 D:/Projects/Programming/Python/GolTHW/Console_Assistant/

 README.MD File Reference
- 8.22 D:/Projects/Programming/Python/GoITHW/Console_
 Assistant/setup.py File Reference

Namespaces

namespace setup

8.23 setup.py 105

Variables

- setup.name
- · setup.version
- · setup.description
- · setup.author
- · setup.license
- setup.url
- setup.include_package_data
- · setup.packages
- setup.entry_points
- setup.install_requires
- setup.package_data

8.23 setup.py

Go to the documentation of this file.

```
00001 from setuptools import setup, find_namespace_packages
00002
00003 setup(
00004
             name="assistant",
            version="1.0.0",
description="Command line assistant",
00005
00006
00007
             author="sergiokapone",
00008
             license="MIT",
00009
            url="https://github.com/sergiokapone/console_assistant",
00010
             include_package_data=True,
            packages=find_namespace_packages(),
entry_points={"console_scripts": ["assistant = console_assistant.CLI:main"]},
00011
00012
00013
            install_requires=[
    "prettytable==3.7.0",
    "Pygments",
00014
00015
00016
                  "transliterate",
                  "prompt-toolkit>=3.0",
"requests",
"beautifulsoup4",
00017
00018
00019
00020
            package_data={
    "": ["README.md"],
00021
00022
00023
00024)
```