phone-book Documentation

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We can include code like this:

```
import maya.cmds
print "hello world"
```

CHAPTER

ONE

PROJECT BRIEF

1.1 We will discuss:

- thing
- other thing
- this thing

1.1.1 phonebook

1.1.1.1 phonebook package

phone-book

A simple Python module that's designed to take a set of personal data and store it in various formats. It has a command-line tool that can be run from the root of this directory

Requires: Python 2.7

Currently supports serialisation in:

- JSON
- CSV

System to support additonal file formats is easily extendable.

Subpackages

phonebook.supported_filetypes package

Submodules

phonebook.supported_filetypes.filetypes module

filetypes.py

This module contains the subclasses for serialization of formats (reading to and writing from) All subclasses inherits the filetypes_abstract.PhoneBookABC() as an abstract class.

class phonebook.supported_filetypes.filetypes.**PhoneBookCSV**
Bases: *phonebook.supported_filetypes.filetypes_abstract.PhoneBookABC*

filetype

read_from(*file_input*)
Required method for reading a file to be turned into a dictionary that pBook can read :param file_input: pass an open file :return: (list) python dictionary in phoneBook format

write_to(*file_output*, *phone_book*)
Required method for writing the phonebook dictionary to a specified format :param file_output: (file object) file to write to :param phone_book: (dict) phone book :return: (str) string in specified format

class phonebook.supported_filetypes.filetypes.**PhoneBookJSON**
Bases: *phonebook.supported_filetypes.filetypes_abstract.PhoneBookABC*

filetype

read_from(*file_input*)
Required method for reading a file to be turned into a dictionary that pBook can read :param file_input: pass an open file :return: (list) python dictionary in phoneBook format

write_to(*file_output*, *phone_book*)
Required method for writing the phonebook dictionary to a specified format :param file_output: (file object) file to write to :param phone_book: (dict) phone book :return: (str) string in specified format

phonebook.supported_filetypes.filetypes.**query_filetypes**()

phonebook.supported_filetypes.filetypes_abstract module

filetypes_abstract.py

This module contains the abstract class which all subclasses from *phonebook.supported_filetypes.filetypes()* When adding support for additional storage formats, you must inherit from this class and use it as a template.

class phonebook.supported_filetypes.filetypes_abstract.**PhoneBookABC**
Bases: object

filetype

Returns File extension of phonebook format

read_from(*file_input*)
Required method for reading a file to be turned into a dictionary that pBook can read :param file_input: pass an open file :return: (list) python dictionary in phoneBook format

write_to(*file_output*, *phone_book*)
Required method for writing the phonebook dictionary to a specified format :param file_output: (file object) file to write to :param phone_book: (dict) phone book :return: (str) string in specified format

Submodules

phonebook.html_template module

html_template.py

This string is the html template used when using the publish_records method to write the file.

phonebook.phonebook module

phonebook.py

This module contains the commandline parsing stuff.

phonebook.phonebook.**help_description**()

phonebook.phonebook.**parse_args**()

phonebook.phonebook_actions module

phonebook_actions.py

This module contains the PhoneBookActions class the implements the actual commands called by phonebook.py and writes the actual file.

The *phonebook.supported_filetypes.filetypes()* module is where the serialization happens.

class phonebook.phonebook_actions.**PhoneBookActions**(*output_file*)

Bases: object

The PhoneBookActions class implements actions related to saving/editing/converting a phone book. **output_file** is the name of the file you want to write your records to.

e.g. "pbook.json" will save to working dir and will save as .json

If the specified file type is not supported a ValueError is raised. You can query supported filetypes using *query_filetypes()*

add_record(*name=None*, *address=None*, *phone=None*)

Adds a record and writes to *file()* Returns the record's order in the database, and the record that was added in *dict* form :param name: string :param address: string :param phone: string :return: order_id, database[order_id]

convert_records(*output_file*)

Parameters **output_file** –

Returns

database

All phone book records in *dict* format

file

(string) the output file

filter_records(*filter_string*, *filter_entry=None*)

Parameters

- **filter_string** –
- **filter_entry** –

Returns

list_records(*database=None*)

Parameters **database** –

Returns

publish_records()

Returns

query_filetypes()

Convenient method that returns list of supported filetypes for serialization :return: a list of supported filetypes from *phonebook.supported_filetypes.filetypes()*

remove_record(*order_id*)

Remove a record. Specify which record to remove by it's order_id :param order_id: (int) :return: dictionary of the entry that you just removed

retrieve_records()

Returns

store_records()

Returns

CHAPTER

TWO

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