
practice2standards Documentation

Marcell Marosvolgyi

Apr 02, 2021

CONTENTS:

1	Introduction	1
2	Examples	3
2.1	Simple startup front-end	3
2.2	Backend usage	3
3	Class overview:	5
4	Indices and tables	7
	Python Module Index	9
	Index	11

INTRODUCTION

As part of the SCRATCH project: <https://itea3.org/project/scratch.html> research phase this tool was developed to help navigate DCMS data (requirements/best practices).

<https://iotsecuritymapping.uk/open-data-files-latest-v4/>

There are two components in this project. The backend which reads the database from local file or webresource and stores the data in a structure.

The front end allows for making structures/filters and export.

```
..code-block::bash
```

```
python3 ui.py
```


EXAMPLES

2.1 Simple startup front-end

From the shell type:

```
python3 ui.py
```

Open a browser and type:

<http://localhost:5000>

in the address-bar.

2.2 Backend usage

The following code will return all the properties of the guides belonging to the organization *IEEE*.

```
1 gl = CodeOfPracticeReader()
2 gl.setup()
3
4 guides = gl.getGuides()
5
6 processor = Processor(guides)
7
8 list = processor.getOccurrencesOfOrganisation(["IEEE"])
9
10 for item in list:
11     print (propsOf(item))
```

Multiple organizations can be selected:

```
list = processor.getOccurrencesOfOrganisation(["IEEE", "W3C"])
```

etc, etc.

CLASS OVERVIEW:

Author: M.A. Marosvolgyi 2021 (c)Anywi

class `prototype.Processor` (*guides*)

Processor returns an object which can do manipulations on the set of guides.

Parameters `guides` (*CodeOfPracticeGuide*) – list of guides

example:

```
>>> import prototype as pt
>>> list = processor.getOccurencesOfOrganisation(["IEEE"])
>>> print (pt.propsOf(list[0]))
GuideLine No: 1
IEEE
IoT Security Principles and Best Practices
5
IoT devices should not use easy-to-guess username/password credentials, such as
↳admin/admin. Devices should not use default credentials that are invariant
↳across multiple devices and should not include back doors and debug-mode
↳settings (secret credentials established by the device's programmer) because,
↳once guessed, they can be used to hack many devices.
Each device should have a unique default username/password, perhaps printed on
↳its casing, and preferably resettable by the user. Passwords should be
↳sophisticated enough to resist educated guessing and so-called brute force
↳methods.
https://internetinitiative.ieee.org/images/files/resources/white_papers/internet_
↳of_things_feb2017.pdf
Use strong authentication
1
```

generateSetOfOrganisations ()

Generates a set of all organisations occuring in all guides.

getListOfOrganizations ()

Returns a list of all organizations. This is basically a conversion from the set of organizations to a list.

Returns list of organizations

Return type list

getMatrix ()

Return matrix of guides against organisations involved

getOccurencesOfOrganisation (*organisations*)

Returns an ordered list (by Guide ID) of guides which belong to organisations listed in the argument variable (list) organisations.

Params **organisations** list of organisations

Type list of CodeOfPractiveGuideline

Returns sorted list of guides

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

PYTHON MODULE INDEX

p

prototype, 5

INDEX

G

`generateSetOfOrganisations()` (*prototype.Processor method*), 5
`getListOfOrganizations()` (*prototype.Processor method*), 5
`getMatrix()` (*prototype.Processor method*), 5
`getOccurencesOfOrganisation()` (*prototype.Processor method*), 5

P

`Processor` (*class in prototype*), 5
`prototype` (*module*), 5