
practice2standards Documentation

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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

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:

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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.

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

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