practice2standards Documentation

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INTRODUCTION

As part of the SCRATCh project: https://itea3.org/project/scratch.html research phase this tool was deveopped 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 webresouce 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 follwing code will return all the properties of the guides beloning to the organization *IEEE*.

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

Multiple organizations can be selected:

```python
list = processor.getOccurencesOfOrganisation(["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.

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

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