bottle-gui

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Welcome in the bottle-gui documentation. This package is used to visualize services used in bottle web framework.

CHAPTER 1

User documentation

From the user's point of view, only thing you need to do is install the package and import one function:

```
pip install bottle-gui
```

And the code:

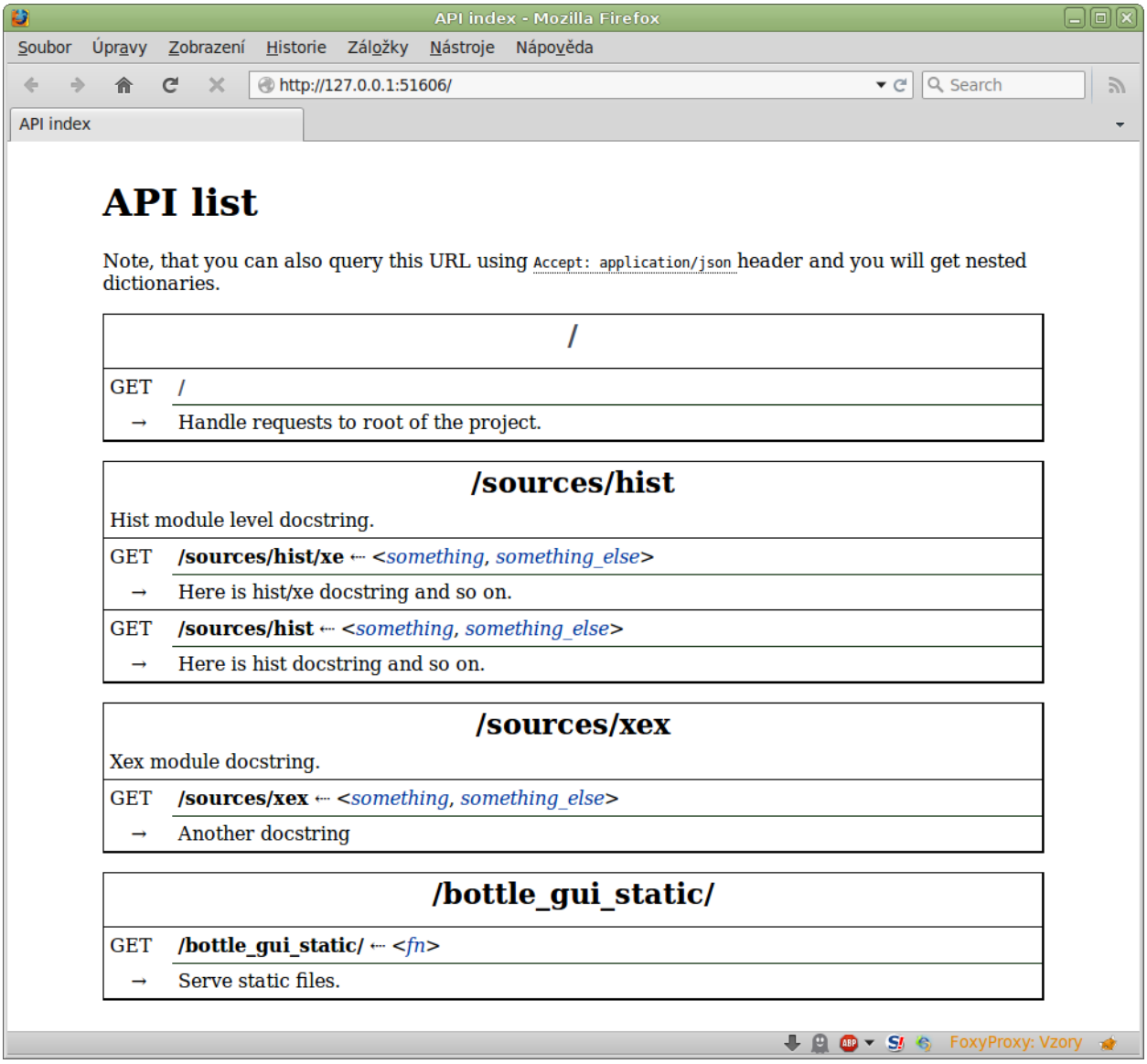
```
import bottle_gui

gui = bottle_gui.gui()
```

Thats it! This will add the bottle gui service to your bottle namespace.

The `gui()` takes one optional parameter, which specifies where the GUI service should run. By default, it will run at `/`.

Now, all you have to do is to run your server and go to address of the service, where you should see something like:



Note, that this is only for test, in real scenario, there would be more URL's and their comments would be meaningful.

CHAPTER 2

API documentation

2.1 bottle_gui package

`bottle_gui.bottle_gui.`**`TEMPLATE_PATH`** = **'static/templates/'**
Path to the template directory.

`bottle_gui.bottle_gui.`**`read_template`**(*template_name*)
Read content of the template file.

Parameters **template_name** (*str*) – Name of the file.

Returns Content of *template_name* from `TEMPLATE_PATH` directory.

Return type str

`bottle_gui.bottle_gui.`**`INDEX_TEMPLATE`** = **'<HTML>\n<head>\n <title>API index</title>\n <link rel="stylesheet" typ**
static/templates/index.html

`bottle_gui.bottle_gui.`**`TABLE_TEMPLATE`** = **'\n<table class="api_table">\n <tr>\n <th colspan="2" class="api_name">**
static/templates/table.html

`bottle_gui.bottle_gui.`**`ROW_TEMPLATE`** = **' <tr style="border-top: 1px solid black;">\n <td class="request_type">$http**
static/templates/row.html

`bottle_gui.bottle_gui.`**`DESCR_TEMPLATE`** = **'\n <tr>\n <td class="blank_td">→</td>\n <td class="method_descri**
static/templates/descr.html

class `bottle_gui.bottle_gui.`**`RouteInfo`**(*method*, *path*, *args*, *docstring*, *mdocstring*, *module_name*)

Bases: `object`

Container for informations about *route*.

`method`
fn reference

Reference to undecorated function.

`path`
str

Path to the function in bottle.

`args`
list

Args of the function.

docstring
str

Docstring for the function.

mdocstring
str

Docstring for the module where the function is.

module_name
str

Name of the module where the function is.

Attributes method (fn reference): see Attributes section for details. path (str): see Attributes section for details. args (list): see Attributes section for details. docstring (str): see Attributes section for details. mdocstring (str): see Attributes section for details. module_name (str): see Attributes section for details.

to_html()
Convert informations about this route to HTML.

Note: DESCR_TEMPLATE and ROW_TEMPLATE is used.

Returns HTML representation of the *route*.

Return type str

to_dict()
Return dictionary representation of the class. This method is used for JSON output.

Returns Dictionary following keys: method, path, args, docstring, mdocstring, module_name.

Return type dict

class bottle_gui.bottle_gui.**RouteGroup**(*routes*=[])
Bases: object

This object is used to group RouteInfo objects.

Parameters **routes** (*list, default []*) – List with RouteInfo objects.

get_path()
Return *path* for this group.

Returns Path.

Return type str

get_docstring()
Return 'module' docstring.

Returns Module docstring, if defined, or blank string.

Return type str

to_html()
Convert group and all contained paths to HTML.

Note: TABLE_TEMPLATE is used.

Returns HTML.

Return type str

to_dict()

Convert group to dict. This method is used for JSON output.

Returns {path: [routes]}

Return type dict

See also:

`RouteInfo.to_dict()`

bottle_gui.bottle_gui.**list_routes**()

Get list of `RouteInfo` objects from bottle introspection.

Returns `RouteInfo` objects.

Return type list

bottle_gui.bottle_gui.**group_routes**(*ungrouped_routes*)

Group list of `RouteInfo` objects in *ungrouped_routes* by their `RouteInfo.path` properties.

Parameters **ungrouped_routes** (*list*) – List of `RouteInfo` objects.

Returns `RouteGroup` objects.

Return type list

bottle_gui.bottle_gui.**to_html**(*grouped_routes*)

Convert list of `RouteGroup` objects in *group_routes* to HTML.

Parameters **grouped_routes** (*list*) – Llist of `RouteGroup` objects.

Returns HTML page with routes.

Return type str

bottle_gui.bottle_gui.**to_json**(*grouped_routes*)

Convert list of `RouteGroup` objects in *grouped_routes* to JSON.

Parameters **grouped_routes** (*list*) – Llist of `RouteGroup` objects.

Returns JSON representation of *grouped_routes*.

Return type str

bottle_gui.bottle_gui.**gui**(*path='/'*)

Run *bootle-gui* at given *path*.

Parameters **path** (*str, default "/"*) – Bottle path on which the application will be available.

Returns fn reference: Function, which provides the *bottle-gui* functionality, mapped to bottle *path*.

bottle_gui.bottle_gui.**get_static**(*fn*)

Serve static files.

CHAPTER 3

Testing

This project uses pytest for testing. You can run the tests from the root of the package using following command:

```
$ py.test
```

Which will output something like:

```
============================= test session starts ==============================
platform linux2 -- Python 2.7.6 -- py-1.4.23 -- pytest-2.6.0
collected 2 items

tests/test_gui.py ..

========================== 2 passed in 1.31 seconds ==========================
```

CHAPTER 4

Indices and tables

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