

# Visible Flask

AWPUG - June 2017

# THE VISIBLE MAN

PATENT PENDING

*A Science Assembly Project*

THE WONDERS OF  
THE HUMAN BODY  
REVEALED!

FROM SKIN  
TO SKELETON...

assemble, remove,  
replace all organs!

Parts undecorated and  
paints not included

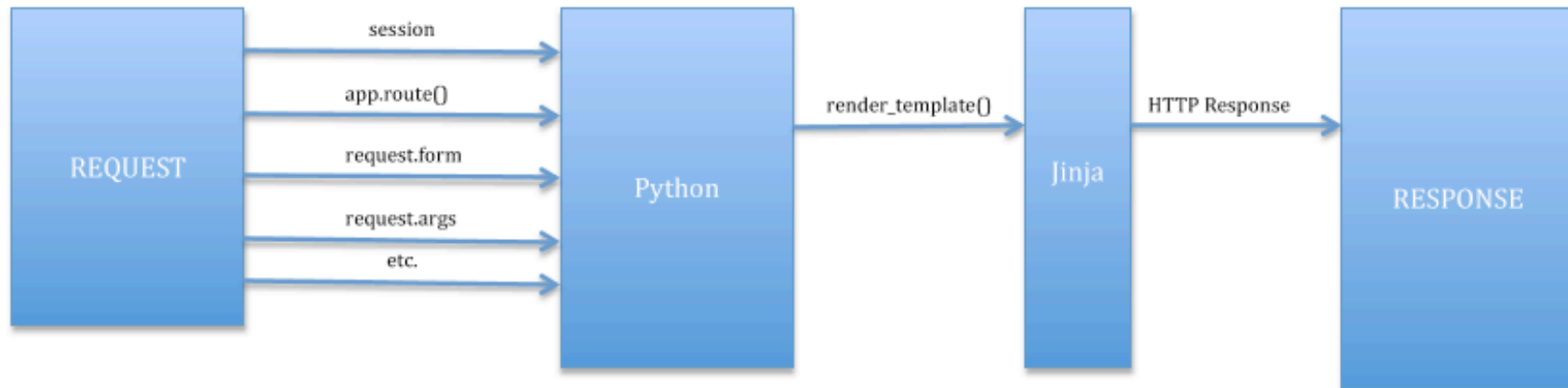
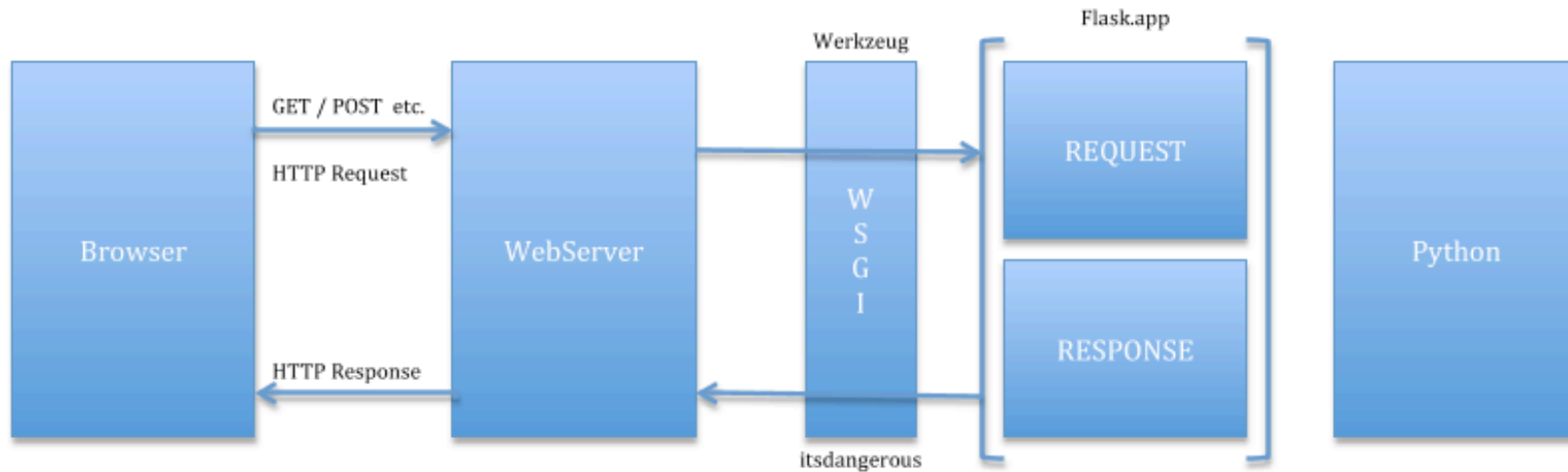
Includes an  
ILLUSTRATED  
HANDBOOK  
written by Medical  
Authorities in  
everyday language

THE VISIBLE MAN  
by FETTER

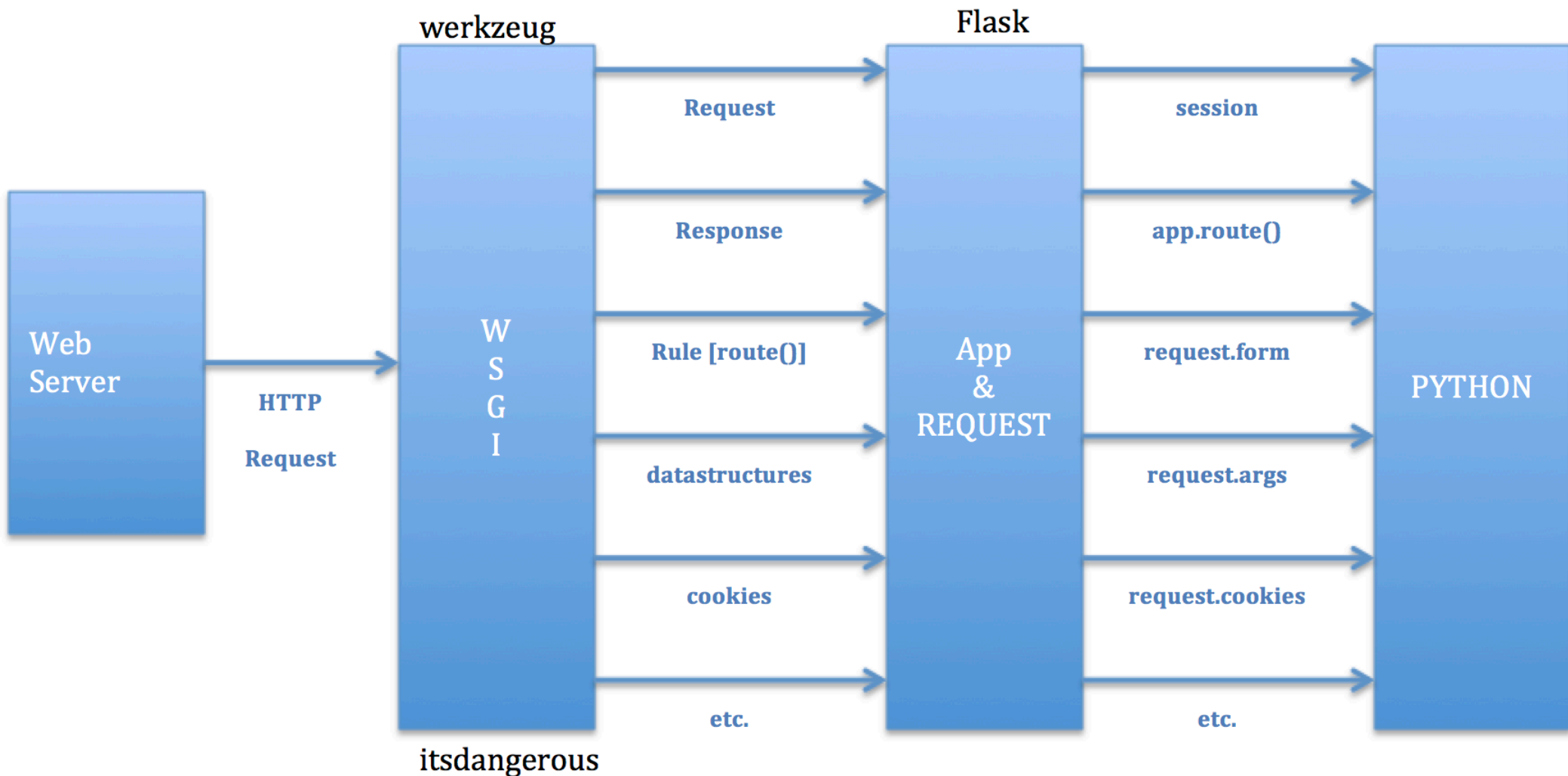
ACTUAL SIZE



## FLASK - Overview



# App & Request



[[request.cookies]]

[[request.args]]

[[request.form]]

[[session]]

[[Jinja templates]]

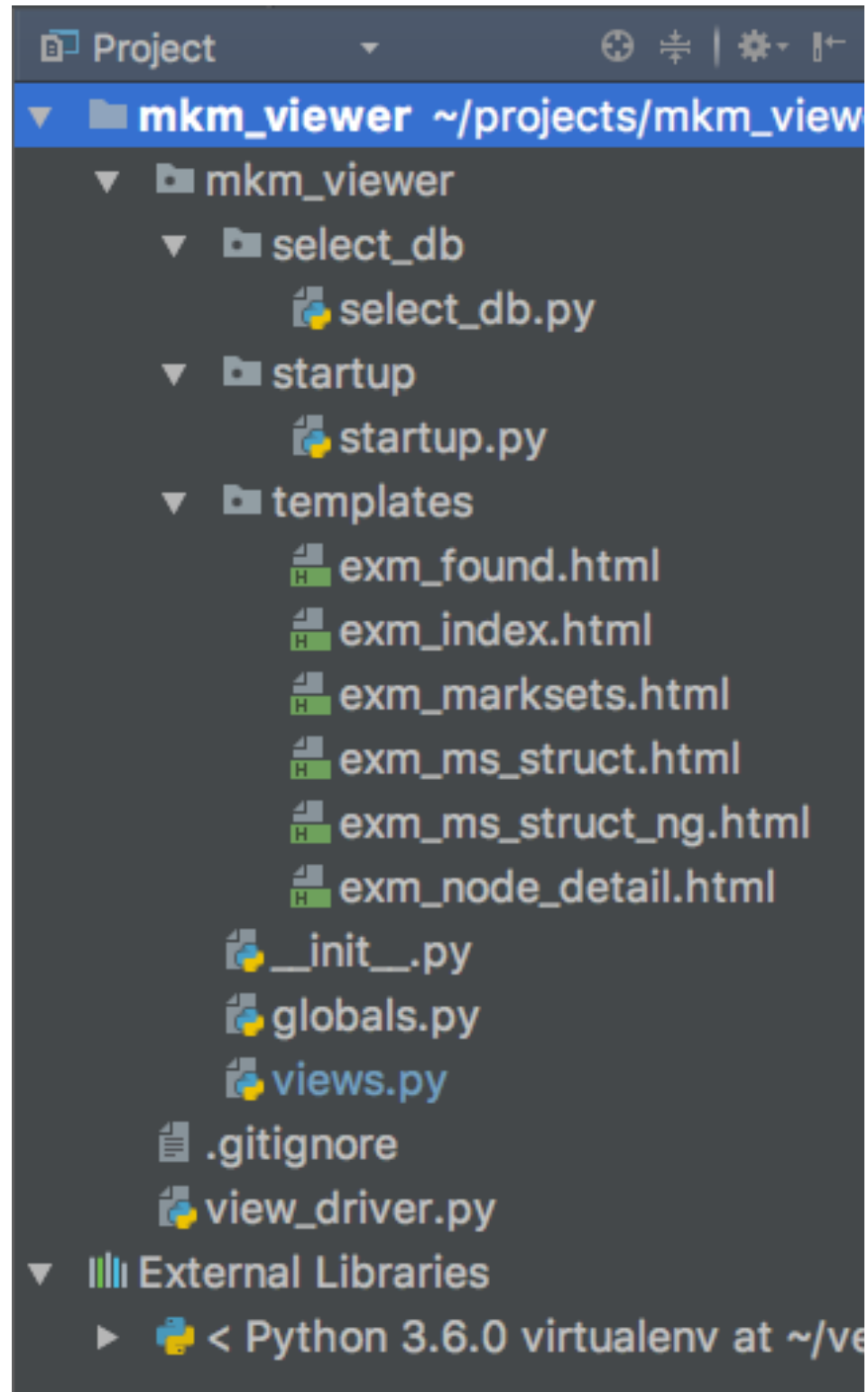
# mkm\_viewer

`__init__.py`

`view_driver.py`

`views.py`

`exm_node_detail.html`



# mkm\_viewer/mkm\_viewer/\_\_init\_\_.py

```
from flask import Flask
from .globals import JTC
j = JTC()
```

```
from mkm_viewer.startup.startup import startup_bp
from mkm_viewer.select_db.select_db import
select_db_bp
from . import globals
```

```
exm = Flask(__name__)
```

```
exm.register_blueprint(startup_bp)
exm.register_blueprint(select_db_bp)
```

# mkm\_viewer/view\_driver.py

```
from mkm_viewer import exm  
  
from mkm_viewer import views  
from mkm_viewer import globals  
exm.secret_key = 'mkm_viewer'  
  
exm.run(port=5050, debug=True)
```



```
from flask import render_template
from flask import request
from flask import session
```

```
from . import exm
from . import j
```

```
@exm.route('/ms/<ms_id>')
def show_ms(ms_id):
    ms = j.MS_DB[ms_id]
    session['ms_id'] = ms_id
    apug_demo()
    return render_template('exm_ms_struct.html',
                           ms=ms,
                           ms_id=ms_id,
                           db_id=session['db_id'])
```

```
@exm.route('/update/<node_id>', methods=['POST'])
def update_node(node_id):
    ms = j.MS_DB[session['ms_id']]
    session['to-and-fro'] += 1
    old_node = ms.mg.odg.node[node_id]
    data_movement(old_node)
    return render_template('exm_node_detail.html',
                           ms=ms, db_id=session['db_id'],
                           ms_id=session['ms_id'], node_id=node_id)
```

```
<div style="margin-left: 40px">
  <p>guid = {{ node_id }}</p>
  <form action="/update/{{ node_id }}?a=1&b=2" method="post">
    <label for="name">Name</label>
    <input type="text" name="topic-name" value="{{ node['name'] }}">
    <br>
    <label for="desc">Desc</label>
    <input type="text" name="topic-desc" value="{{ node['desc'] }}">
    <br>
    <input type="submit" value="Submit">
  </form>
  <p>created = {{ node['created'] }}</p>
  <p>edited = {{ node['edited'] }}</p>
</div>
```

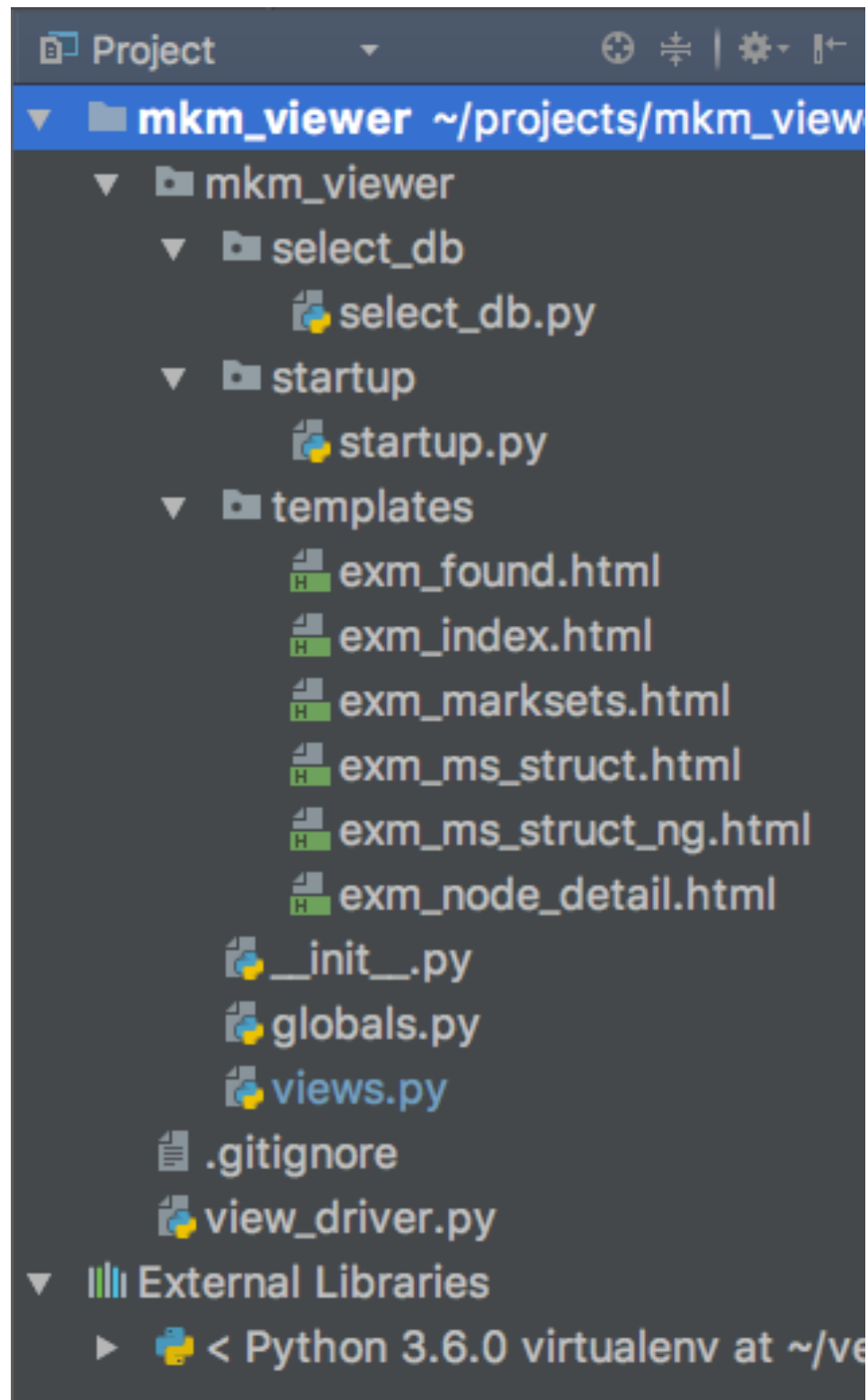
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## COOKIES:

```
request.cookies["session"]=".eJwlyksKwkAM..."
```

```
request.cookies["panel"]="inbox"
```

```
request.cookies["Pycharm-a4edafa9"]="4ce3e89..."
```

**NOTE:** `request.cookie["session"]` is not the same as `Flask.session`

`import session` refers to `Flask.session`

NODE:

old\_node["name"]: 'DnD'

old\_node["desc"]: ''

old\_node["created"]: '2016-05-04 21:51:39.325206'

old\_node["edited"]: '2016-05-04 21:51:39.325218'

**request.args**

**[templates/exm\_node\_detail.html]**

```
<form action="/update/{{ node_id }}?a=1&b=2" method="post">
    ...
    <input type="submit" value="Submit">
</form>
```

**[views.py]**

```
@exm.route('/update/<node_id>', methods=['POST'])
def update_node(node_id):
    .
    .
    .
```

# request.args

ARG values (request.args):

```
<type(request.args)=<class
```

```
  'werkzeug.datastructures.ImmutableMultiDict'>
```

```
request.args["a"]: '1'
```

```
request.args["b"]: '2'
```



## request.form

```
<form action="/update/{{ node_id }}?a=1&b=2" method="post">
  <label for="name">Name</label>
  <input type="text" name="topic-name" value="{{ node['name'] }}">
  <br>
  <label for="desc">Desc</label>
  <input type="text" name="topic-desc" value="{{ node['desc'] }}">
  <br>
  <input type="submit" value="Submit">
</form>
```

FORM values (request.form):

```
<type(request.form)=<class
```

```
    'werkzeug.datastructures.ImmutableMultiDict'>
```

```
request.form["topic-name"]: 'DnD'
```

```
request.form["topic-desc"]: 'whatshappening'
```

# Recap

- Change data content in `<form>` `<input>` field
- Send request to server Flask application via Submit
- `Flask request.form[<field name>]` updates server side data
- `Flask.session` information used for data context
- `Flask request.args` and `request.cookies` data available

# Updated Server Side Data

## UPDATED NODE:

updated old\_node["name"]: 'DnD'

updated old\_node["desc"]: 'whatshappening'

updated old\_node["created"]: '2016-05-04 21:51:39.325206'

updated old\_node["edited"]: '2016-05-04 21:51:39.325218'

# Recap

Data passed to Jinja template in `render_template`

Python data values used in Jinja HTML template

Jinja `{% for %}` and `{% if %}` and `{{ var }}` used to build fully formatted HTML page

HTML page sent to browser

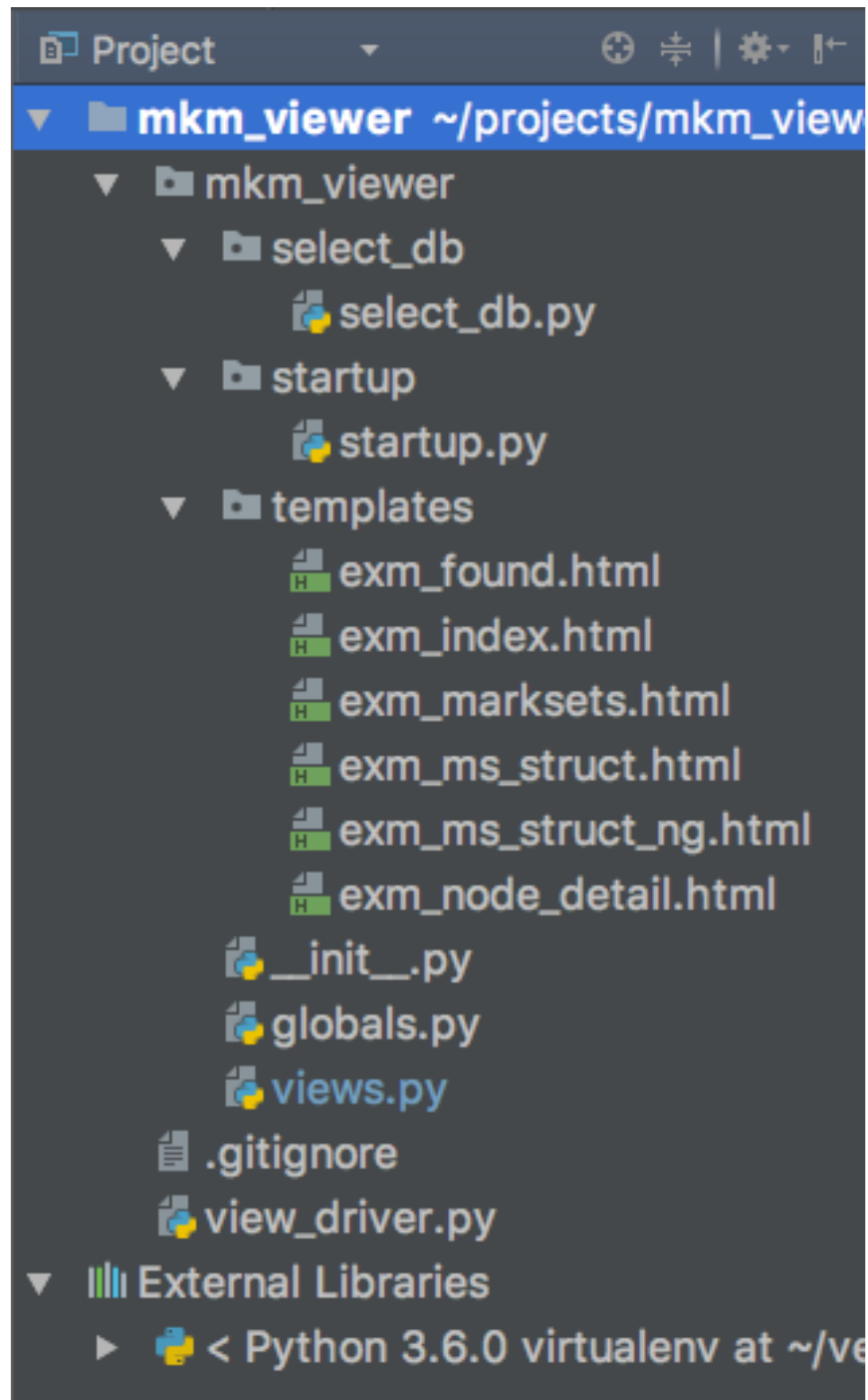
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