

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

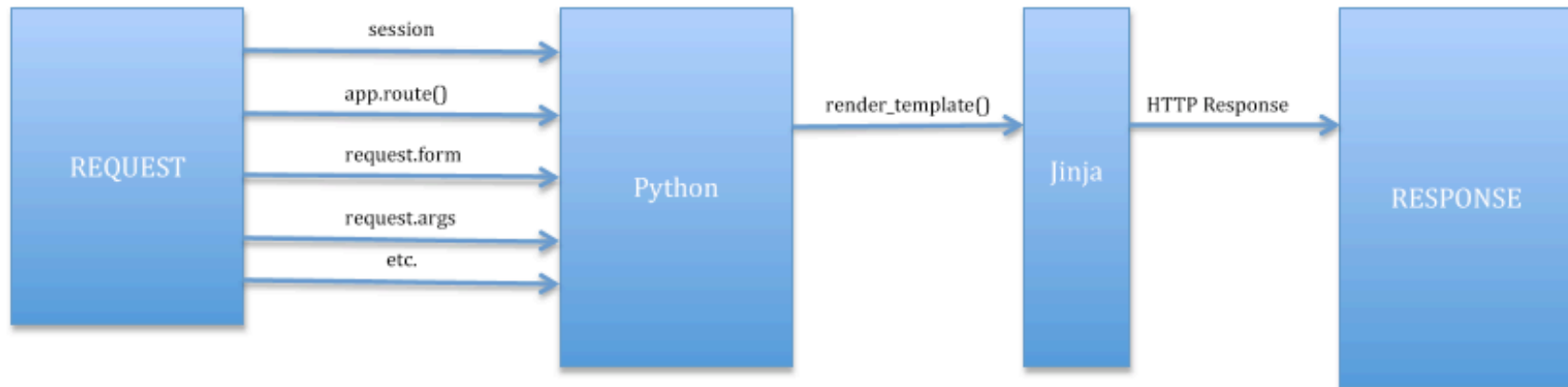
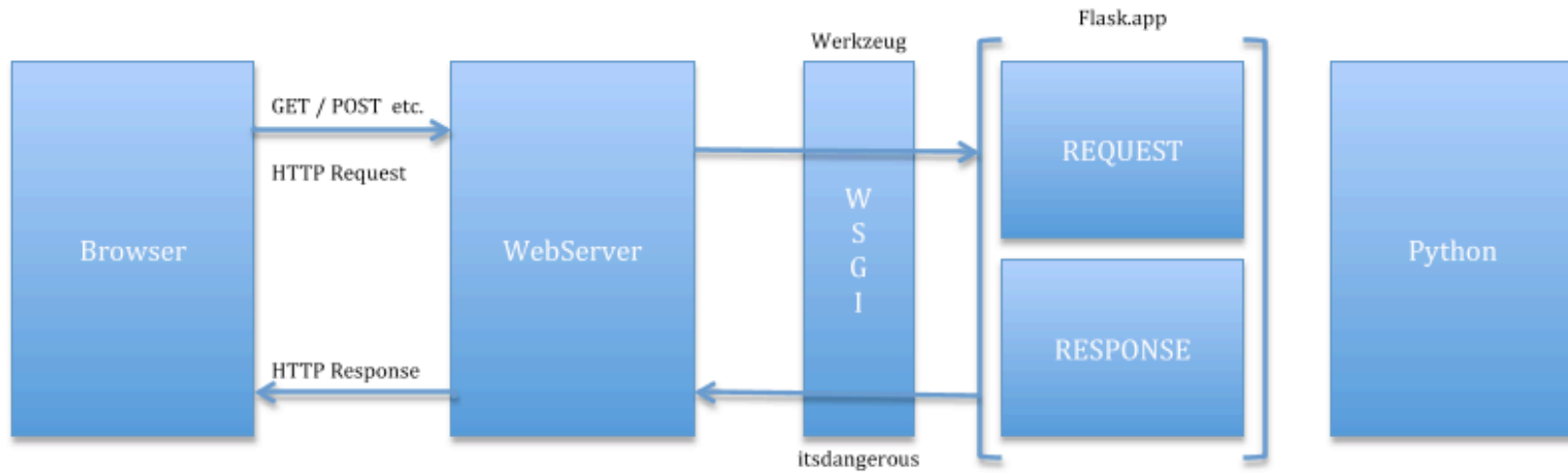
Includes an
ILLUSTRATED
HANDBOOK
written by Medical
Authorities in
everyday language

THE VISIBLE MAN
by FETTER

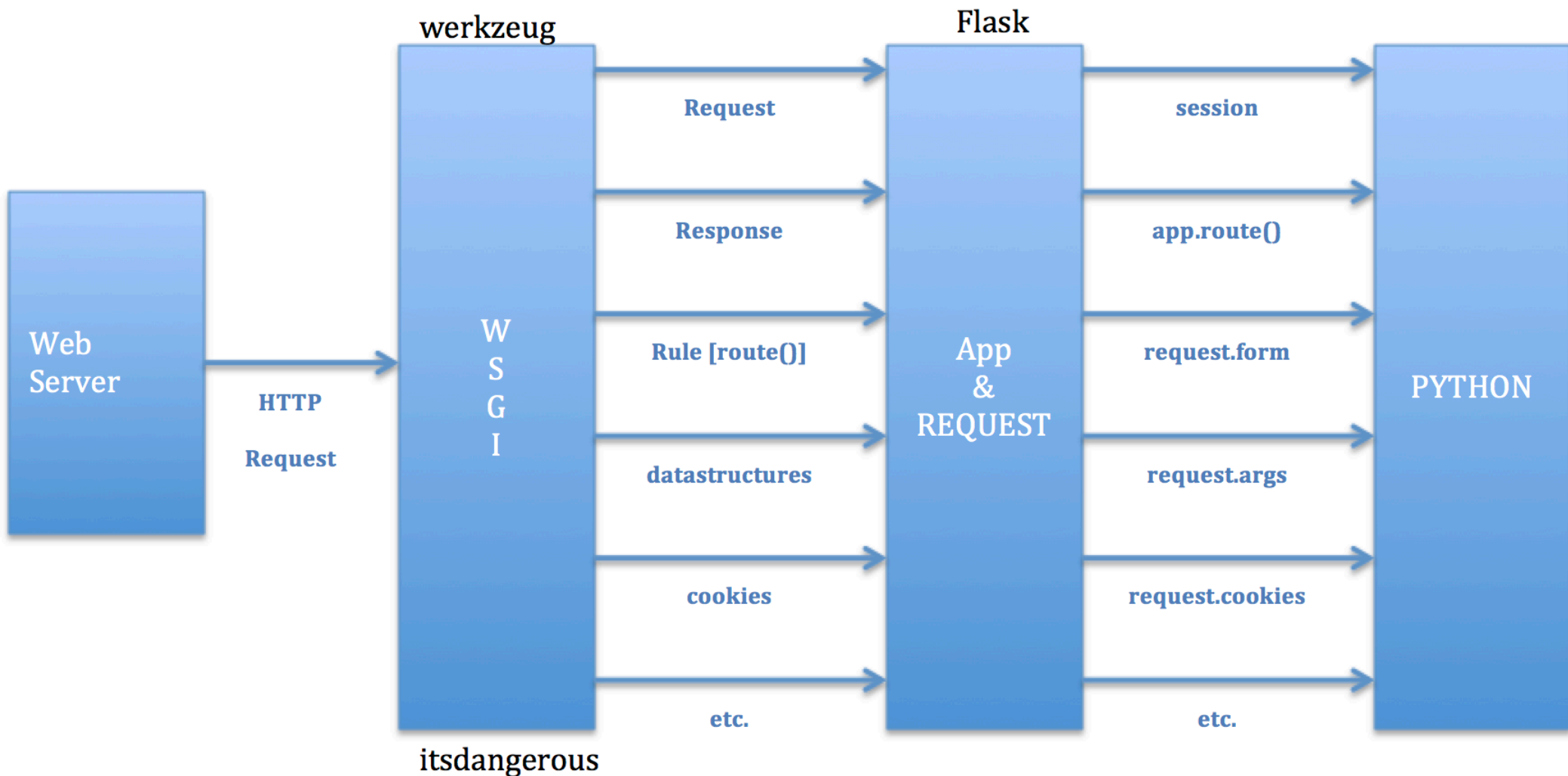
ACTUAL SIZE



FLASK - Overview



App & Request



Moving Data: Browser to Server to Browser

[[request.cookies]]

[[request.args]]

[[request.form]]

[[session]]

[[Jinja templates]]

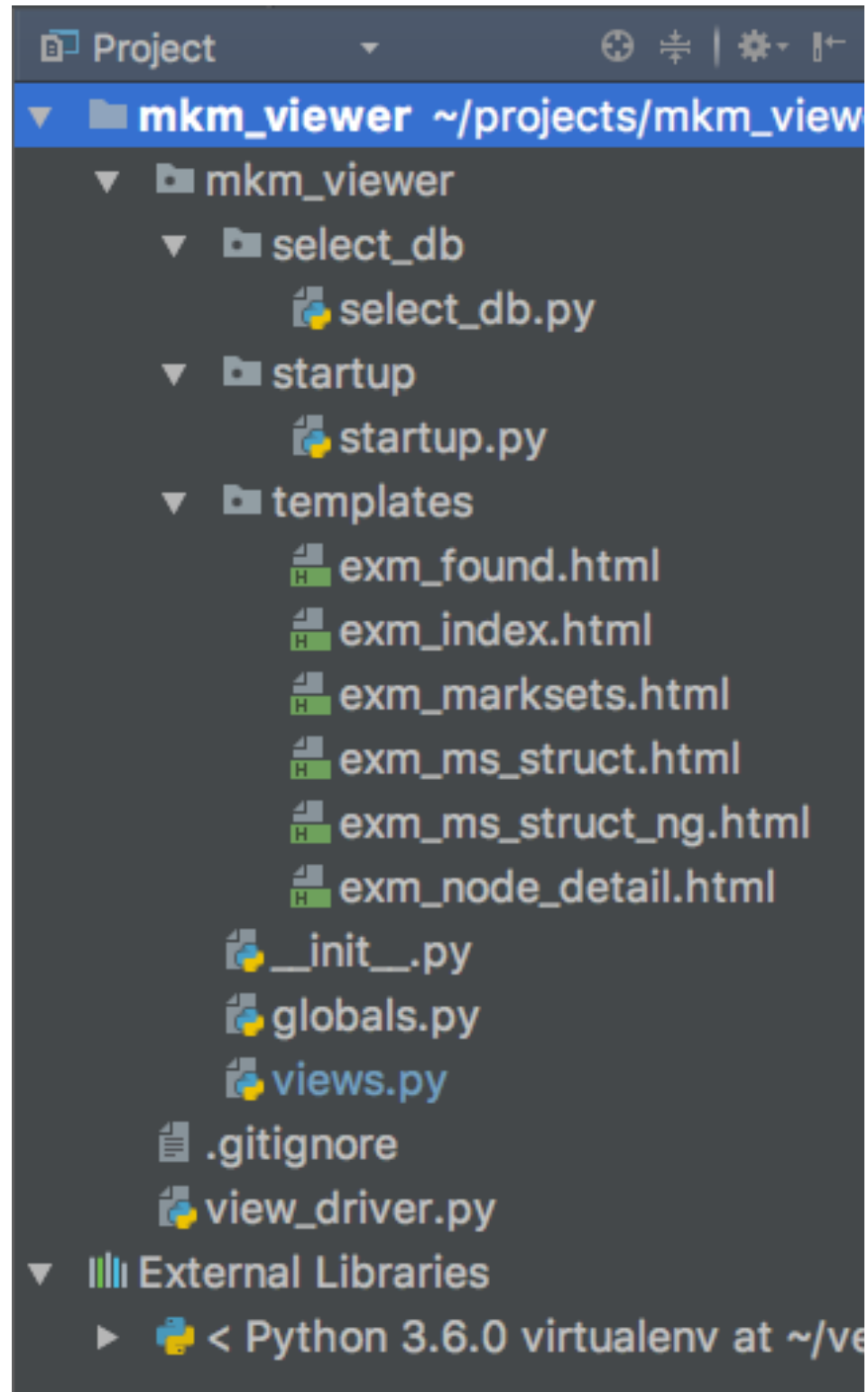
mkm_viewer

`__init__.py`

`view_driver.py`

`views.py`

`exm_node_detail.html`



Start: Browser to Server

guid = 130848da-1178-4a00-8b1c-38017b5d4c41

Name

Desc

created = 2016-05-04 21:51:39.325206

edited = 2016-05-04 21:51:39.325218

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
...
```

```
@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>
```

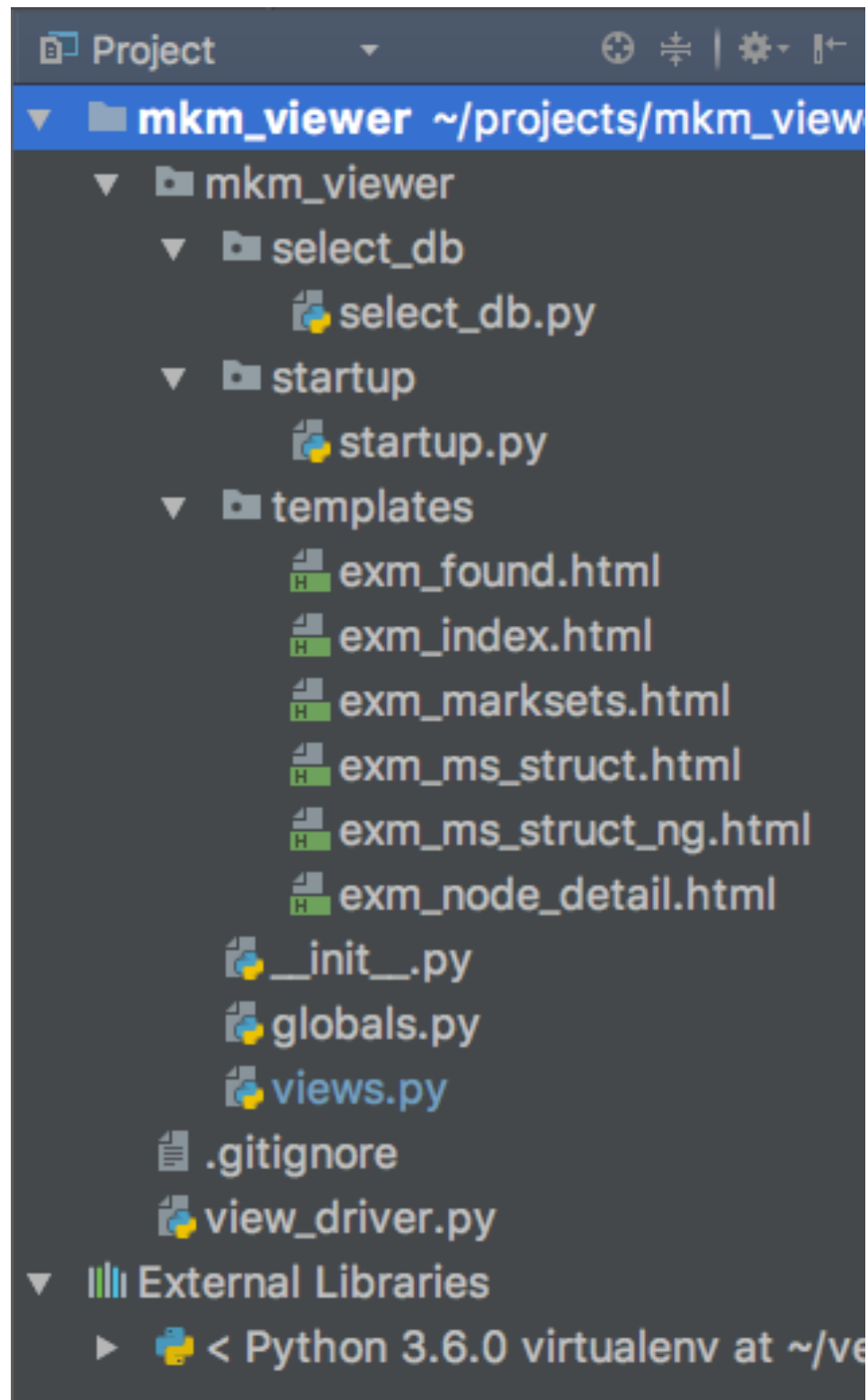
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COOKIES:

```
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: Browser to Server

- 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: Server to Browser

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

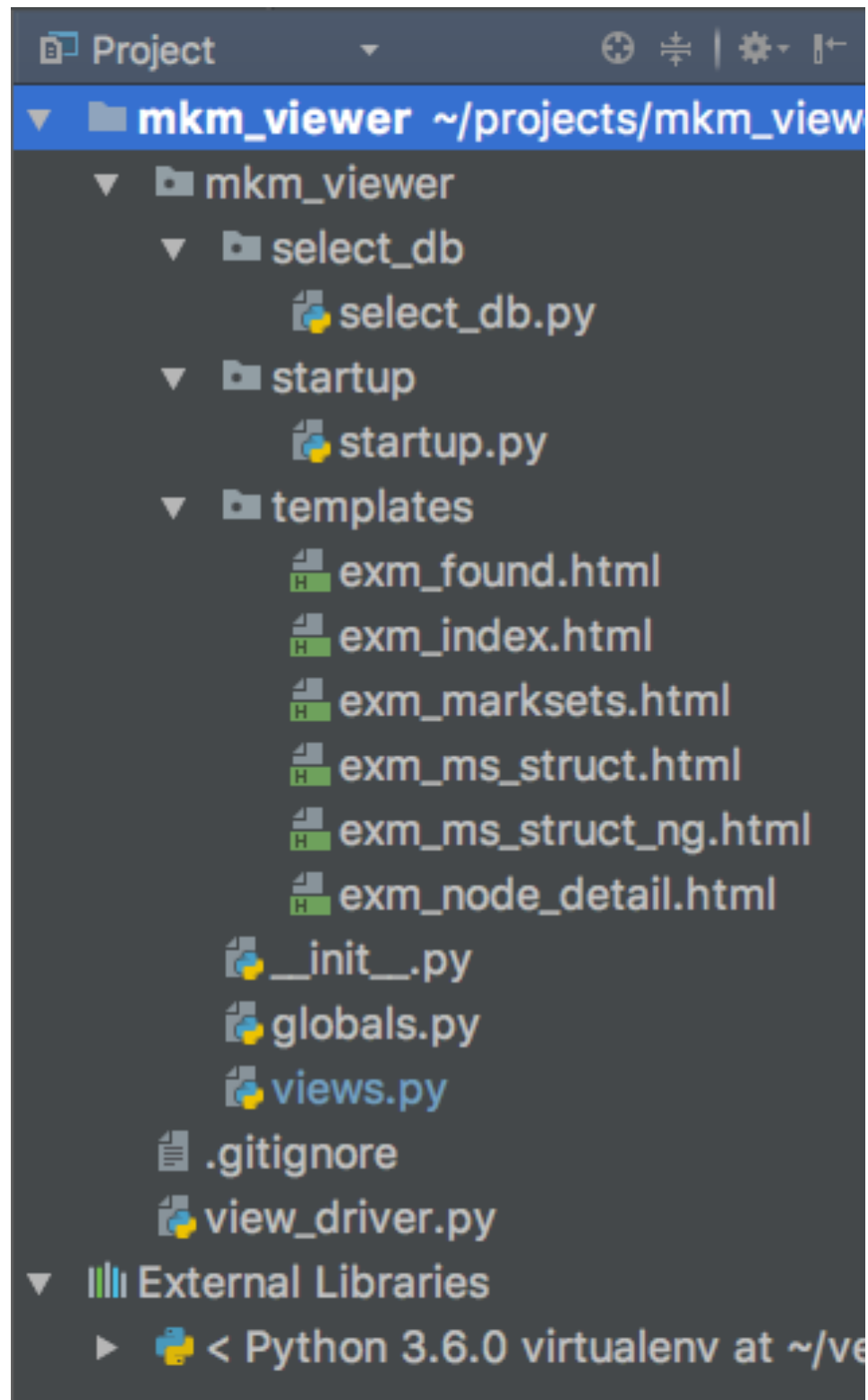
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