

Shopyo: Your Mega Machine For Flask

PyConZA





Python Mauritius UserGroup (pymug)

More info: mscc.mu/python-mauritius-usergroup-pymug/

pymug.com

Why	Where
codes	github.com/pymug
share events	twitter.com/pymugdotcom
ping professionals	linkedin.com/company/pymug
all info	pymug.com
tell friends by like	facebook.com/pymug

Abdur-Rahmaan Janhangeer
(Just a Python programmer)

twitter: [@osdotsystem](#)

github: github.com/abdur-rahmaanj

compileralchemy.com

FlaskCon organising member + Flask Community Workgroup member

and Shopyo maintainer

Shopyo: Your Mega Flask Machine

  github.com/shopyo/shopyo

<https://shopyo.readthedocs.io/en/latest/>

v 4.1.2 on pypi -> `pip install shopyo==4.1.2`

Flask or Django? was the question which preoccupied philosowebists in PyLand during and after the reign of Guido I

Why People Turn To Django? [1]

Why People Turn To Django?

- Speed and Efficiency ⚡

spin websites quickly

Why People Turn To Django?

- Maturity 🌴

Why People Turn To Django?

- Customization

ecosystem 📁

Why People Turn To Django?

- Scalability 🌿

modules

Why People Turn To Django?

- Security 

common attacks

Why People Turn To Django?

- Versatility 

wide range of apps


Why People Turn To Flask? [2]

Why People Turn To Flask?

- Learning Curve 🚗

quick

Why People Turn To Flask?

- Gets out your way 

Why People Turn To Flask?

- No opinion on how to solve problems 🍡

microservices

Why People Turn To Flask?

- Customisation 

What if we could hack Flask to have Django advantages?

What if we could hack Flask to have Django advantages?

That's what Shopyo is!

APP



MODULE




MODULE



MODULE

Why Shopyo?

Why Shopyo?

- Modules 

sharing of modules between projects

Giving Flask users SUPER powers

Why Shopyo?

- Organisation 

Neat, easy to navigate, read, understand

Why Shopyo?

- Feature-packed 🍉



MIGRATIONS



ASSETS MANAGEMENT



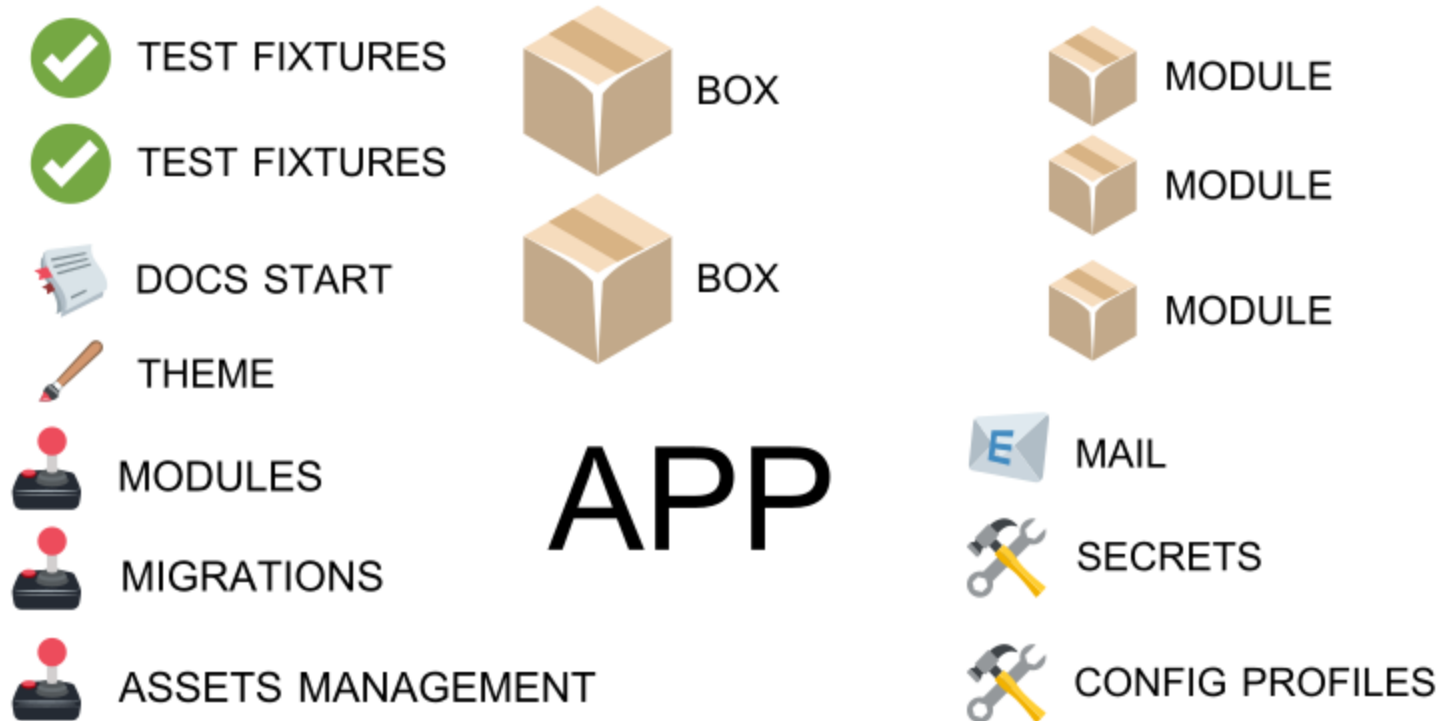
MODULES

Also docs + tests included from the start

Why Shopyo?

- Transparent / no magic 🧙

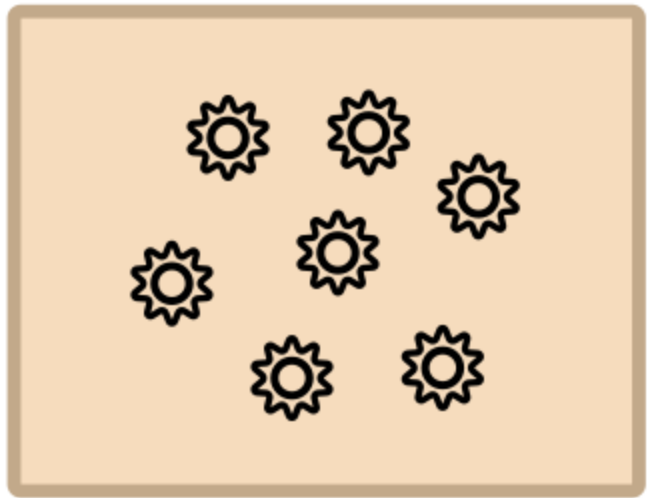
What a Shopyo project looks like?



```
bing
├── bing
│   ├── instance
│   ├── modules
│   │   ├── box__default
│   │   │   ├── appadmin
│   │   │   ├── auth # see slide below
│   │   │   ├── base
│   │   │   ├── dashboard
│   │   │   ├── settings
│   │   │   └── theme
│   ├── resource
│   ├── www
│   ├── sphinx_source
│   │   └── _static
│   ├── static
│   ├── tests
│   ├── ---app.py
│   ├── ---config.py
│   ├── ---conftest.py
│   ├── ---wsgi.py
│   ├── ---init.py
│   └── ---manage.py
└── docs
```

What does a module look like:

MODULE



```
auth
```

```
|—static  
|—templates  
  |—auth  
|—tests  
|---view.py  
|---models.py  
|---forms.py  
|---upload.py  
|---info.json
```

Getting Started

```
mkdir blog
python3.9 -m venv venv
. venv/bin/activate
pip install shopyo==4.1.2
shopyo new
cd blog
python manage.py initialise
python manage.py rundebug
```


Supported commands

start server

```
python manage.py run
```

Depends on whether development set in env

Supported commands

Run with debug=True

```
python manage.py rundebug
```

Supported commands

Run with debug=False

```
python manage.py runserver
```

Supported commands

initialise

```
python manage.py initialise
```

Supported commands

collectstatic

```
python manage.py collectstatic
```

api.get_asset etc

Supported commands







db migrate

```
python manage.py db migrate  
python manage.py db upgrade
```

FaQ

Is it reliable?

We don't maintain middlewares, we use:

-  flask-login
-  flask-admin
-  flask-migrate
-  flask-wtf
-  wtf-sqlalchemy
-  flask-mailman

Why not use Django?

- Because Flask



Sai Deep G

@saideep_g



[@letsventurein](#) [#letshangout](#) Why did Pinterest decide to use Django? Paul mentioned 'heavily-modified Django' -can you pls elaborate on tht ?

9:44 AM · Jul 31, 2015 · Twitter Web Client



Yash Nelapati

@yashh



Replying to [@saideep_g](#)

[@saideep_g](#) [@letsventurein](#) Its a decision I made because I was most comfortable with django & python. Django does a lot for you, but once



Yash Nelapati

@yashh



Replying to [@saideep_g](#)

[@saideep_g](#) [@letsventurein](#) you hit a certain scale you fight the framework and try to make it work the other way. This is why we had to fork

9:56 AM · Jul 31, 2015 · Twitter Web Client



Yash Nelapati

@yashh

...

Replying to [@saideep_g](#)

[@saideep_g](#) [@letsventurein](#) django and build connection pooling, jinja template support, caching via ORM. But the end of 2012 we moved off it.



Sai Deep G

@saideep_g



Replying to @yashh

@yashh @letsventurein #letshangout What did you move to? What was the top reason for the change?

10:06 AM · Jul 31, 2015 · Twitter Web Client



Yash Nelapati

@yashh



Replying to [@saideep_g](#)

[@saideep_g](#) [@letsventurein](#) We built a home grown framework on top of Flask. We wanted a simple framework since our data was sharded

10:22 AM · Jul 31, 2015 · Twitter Web Client

And, that's what shopyo is!

[1] <https://sophilabs.co/blog/why-we-choose-django>

[2] Joe Coburn, FlaskCon 2020: Lessons Learned Building Microservices with Flask

[3] https://twitter.com/saideep_g/status/626991740105285632?s=20