

Shopyo: Your Mega Flask Machine

CONF42



Python 2021

Get inspired by fellow Pythonistas. Snakes and Pandas united!

ONLINE

MAY 27 2021



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

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(Just a Python programmer)

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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 3.9.4 on pypi -> `pip install shopyo==3.9.4`

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



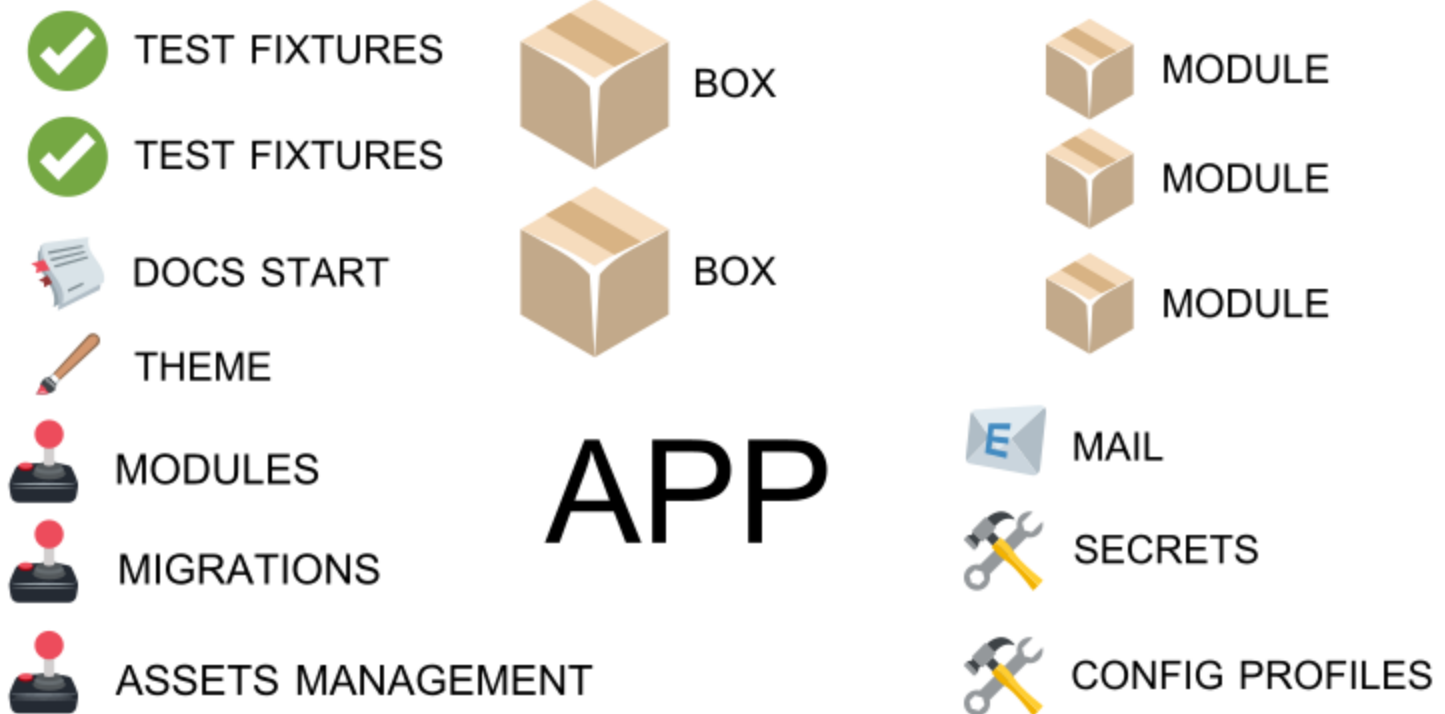
MODULES

Also docs + tests included from the start

Why Shopyo?

- Transparent / no magic 🧙

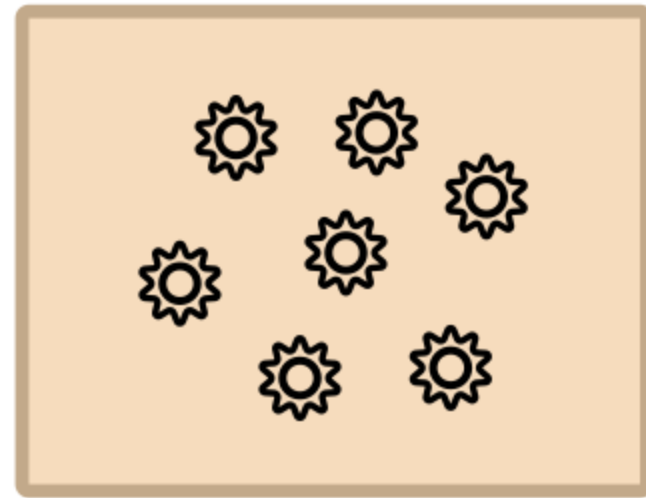
What a Shopyo project looks like?



```
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 looks like:

MODULE



auth

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

Getting Started

```
shopyo new blog  
cd blog/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

Why not use Django?

- Because Flask

Is it reliable?

We don't maintain middlewares, we use:

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

- [1] <https://sophilabs.co/blog/why-we-choose-django>
- [2] Joe Coburn, FlaskCon 2020: Lessons Learned Building Microservices with Flask