Flask Professional Training

SummitWorks™
GLOBAL SOLUTION ARCHITECTS

Agenda: Flask Training
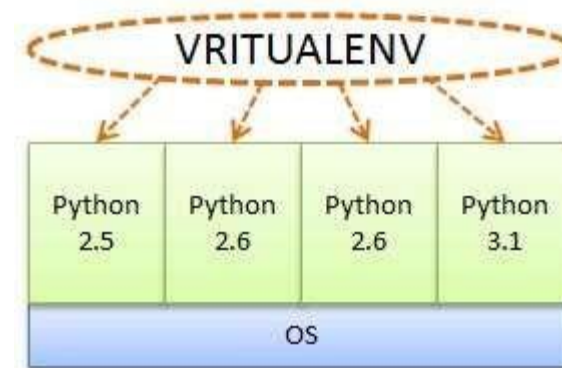
- ✓ Flask Training

FLASK - Features

EXTENSIBLE AND KEEPS THE CORE SIMPLE

- Flask-Admin
- Flask-Cache
- Flask-OpendID
- Flask-Mail
- Flask-MongoAlchemy

- Flask-Restless
- Flask-SQLAlchemy
- Flask-Testing
- Flask-WTF
- Flask-Uploads

VIRTUALENV

Installing

`pip install virtualenv`

Configuring

```
cd  ~/YOUR_MAIN_FOLDER
mkdir virtualenvs
cd virtualenvs
virtualenv  NAME_YOUR_ENV --no-site-packages
```

Activating

`source  NAME_YOUR_ENV/bin/activate`

Deactivating

`deactivate`

FLASK – THE FIRST APP

Installing   `pip install Flask`

Coding

```
# Import Flask library
from flask import Flask

# Initialize the app from Flask
app = Flask(_name_)

# Define a route to hello_world function
@app.route('/')
def hello_world():
    return 'Hello World!'

# Run the app on http://localhost:5000
app.run(debug=True,port=5000)
```

hello.py

Running   `python hello.py`

Main main application

microblog.py: Main application module

- from app import app

(venv) $ export FLASK_APP=microblog.py

(venv) $ flask run
 Serving Flask app "microblog"
 Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

Why we need templates

- We want the home page of our microblogging app to have a heading that welcomes the logged in user, that's pretty standard for applications of this kind. Ignore for now the fact that we have no way to log a user in, I'll present a workaround for this issue in a moment.
- from flask import render_template
- from app import app

- @app.route('/')
- @app.route('/index')
- def index():
-     user = {'nickname': Maruthi'} # some user
-     return render_template('index.html',
-                 title='Home',
-                 user=user)

Index.html

- <html>
- <head>
-   {% if title %}
-   <title>{{ title }} - microblog</title>
-   {% else %}
-   <title>Welcome to microblog</title>
-   {% endif %}
- </head>
- <body>
-   <h1>Hello, {{ user.nickname }}!</h1>
- </body>
- </html>

Template inheritance

- {% extends "base.html" %}
- {% block content %}
-     <h1>Hi, {{ user.nickname }}!</h1>
-     {% for post in posts %}
-     <div><p>{{ post.author.nickname }} says: {{ post.body }}</p></div>
-     {% endfor %}
- {% endblock %}

Any Queries