Python -Bottle Framework for Web App Development

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What is Bottle

- Web App Micro Framework
- No MVC or ORM like Django
- python3 -m pip install bottle
- https://bottlepy.org/docs/dev/
- Dirt Simple Framework that runs on script execution

Basic Architecture

- · Bottle for Web App functionality
- Python for code
- Static Files Data Store for Files
- Templates HTML Templates with Language
- · Database for Data

Put Into Production???	
Python Web Server	
• NGINX	
• Ports - 8080	
Bottle Basics	
• route	
run(host='localhost', port=8080)Make sure script is running	
 Changes do not take effect until script is restarted Example = bottle-route.py 	
Demonsis Dentes	
Dynamic Routes	
/<value></value>Filters - int, float, path	
 /<value:int></value:int> Example = bottle-value.py 	
• Example = bottle-value.py	

Redirect	
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Redirect to another web page	
Example = bottle-redirect.py	
POST	
Post Process ITMI Grown data	
Post - Process HTML form data	
• From bottle import post	
@post('/process')	
name = request.forms.get('name')	
Example - bottle-post.py	
GET	
GET	
Get - Process values from URL	
from bottle import get	
Red	
• @get('/')	
• color = request.query.get('color')	
Example - bottle-get.py	

Templates	
From bottle import templateCreate "views" folder in root directory	
 Template files end with .tpl Template files allow you to create dynamic web pages return template('hello_template') 	
 return template('hello_var_template', name=name) 	
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Static Files	
Any Static Files such as Images or CSS Style Sheet	
For Security File Server should be separate serverFile/ Folder Permissions	
Create "static" folder in Root DirectoryExample = bottle-static.py	
Labs	
• lab-simple.py	
Create a very basic web app lab-note.py	
Create a Note Taking App	
 lab-ping.py Create a web app that automatically detects if a host is reachable 	