

An introduction to Flask: Create a web app and host it in the cloud



Meet-up October 23th

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Agenda

1. Introduction to:
 - Flask
 - HTTP
 - Python anywhere
 - SQL basics
2. Demo: Pyladies app
3. Workshop: **Create a web app and host it in the cloud**
 - Workshop Part I: Create Flask app and MySQL database
 - Workshop Part II: Code your Flask app

Goals:

- Learn Flask basics
- Build your own Flask app



What is Flask?



- Flask is a micro web framework written in Python.
- Micro means simple but extensible.
- Created by Armin Ronacher of Pocoo
- Components:
 - Werkzeug: toolkit for Web Server Gateway Interface (WSGI) applications
 - Jinja: template engine
- <https://flask.palletsprojects.com/en/1.1.x/>

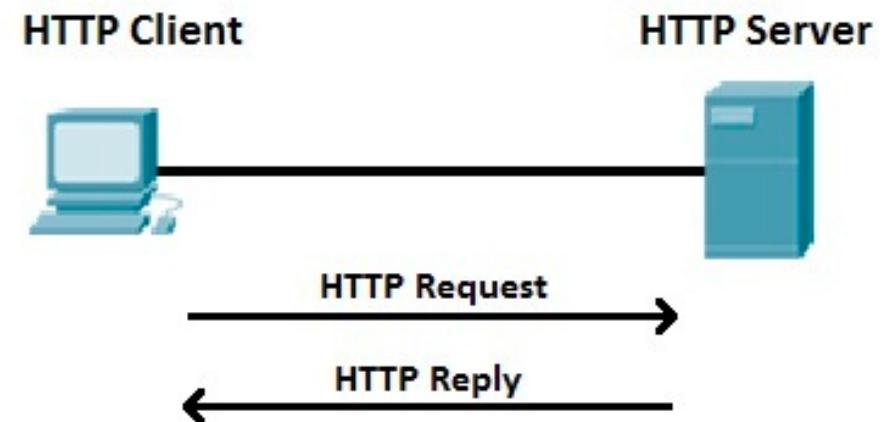
Our first flask app!

```
1 # A very simple Flask Hello World app for you to get started with...
2
3 from flask import Flask
4
5 app = Flask(__name__)
6
7 @app.route('/')
8 def hello_world():
9     return 'Hello from Flask!'
10
```



Hypertext Transfer Protocol (HTTP)

- Designed to enable communications between clients and service
- Request-response protocol
- Example:
 - Client (browser) submits an HTTP request to the server
 - Server returns a response to the client
 - Response contains requested content
- HTTP methods
 - GET → request data from server
 - POST → send data to server



What is Python Anywhere?

- Python Anywhere is an online IDE and web hosting service for Python
- Host, run, and code Python in the cloud
- Simple way to deploy your Flask apps
- Or other Python web frameworks
 - Django
 - Web2py
 - Bottle
 -
- SQL database



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Bash, MySQL,
Python3.6, ...

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See a simple flask app

Go to <http://claudiasulsters.pythonanywhere.com/> and tell use what you want to learn!



Workshop Part I

Create Flask app and MySQL database



Workshop

1. Go to <https://github.com/pyladiesams/flask-beginner-okt2019>
2. Open the ‘Workshop Part I + II’ file in the workshop folder.
3. Go to <https://www.pythonanywhere.com/login/>, log in and go to your dashboard.
4. Let’s get started!



Break



pyladies
amsterdam

Workshop Part II

Code your Flask app



The end

Thank you for joining this meet-up!

