

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/>

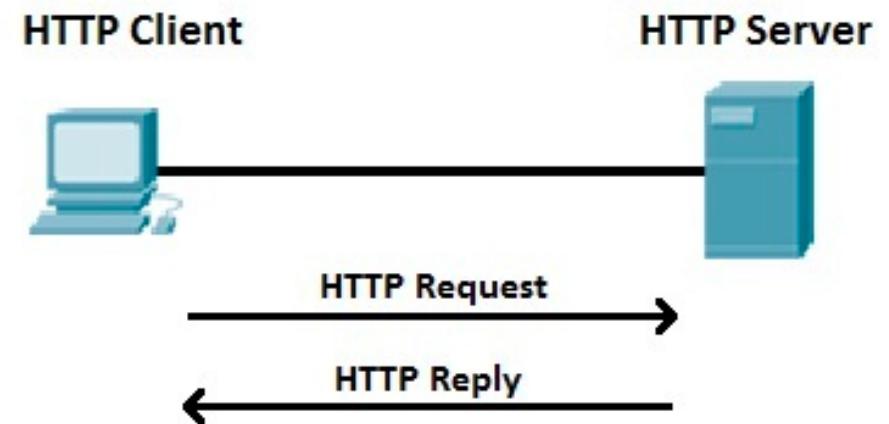
Our first flask app!

```
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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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!
5. Need help? Ask your fellow Pyladies or the workshop leader!
6. Still need help? Look at the solutions folder.



Break



pyladies
amsterdam

Workshop Part II

Code your Flask app



The end

Thank you for joining this meet-up!

