Intermediate Python

Query Parameters and Request Class In Flask

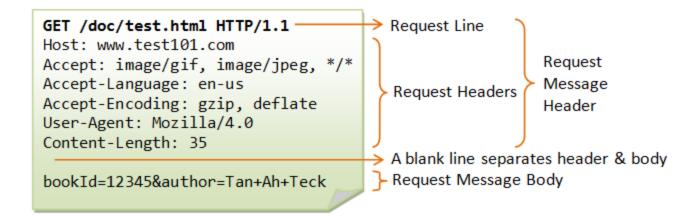


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A Quick Review of URL's And Schemes

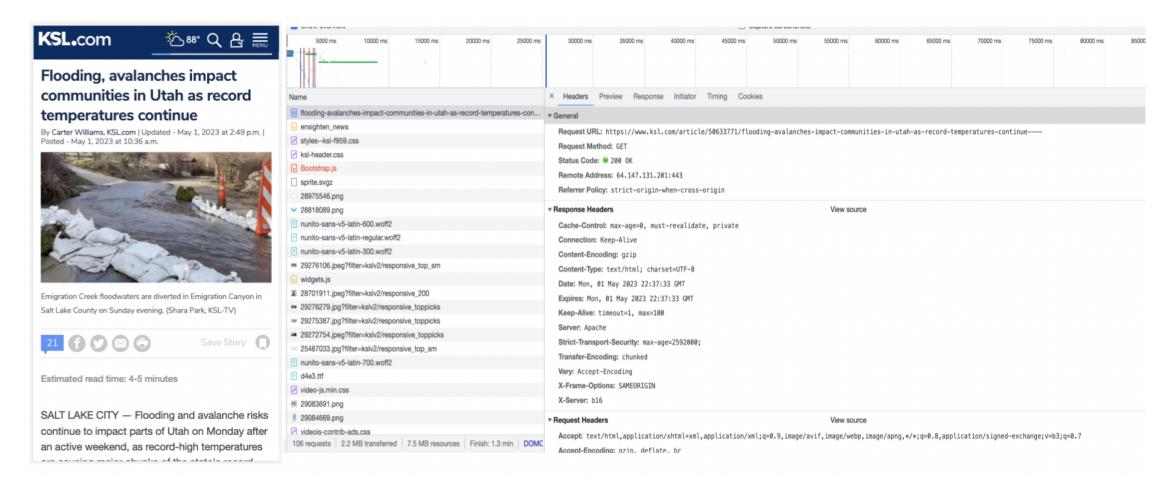


What Is HTTP/HTTPS?



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Website Speak In HTTP



In Flask, We Access HTTP Requests With The request Class

http://127.0.0.1:5000/hello?name=Brady

```
from flask import Flask, request

app = Flask(__name__)

@app.route('/hello')
def hello():
        name = request.args.get('name')
        return "Hello, " + name

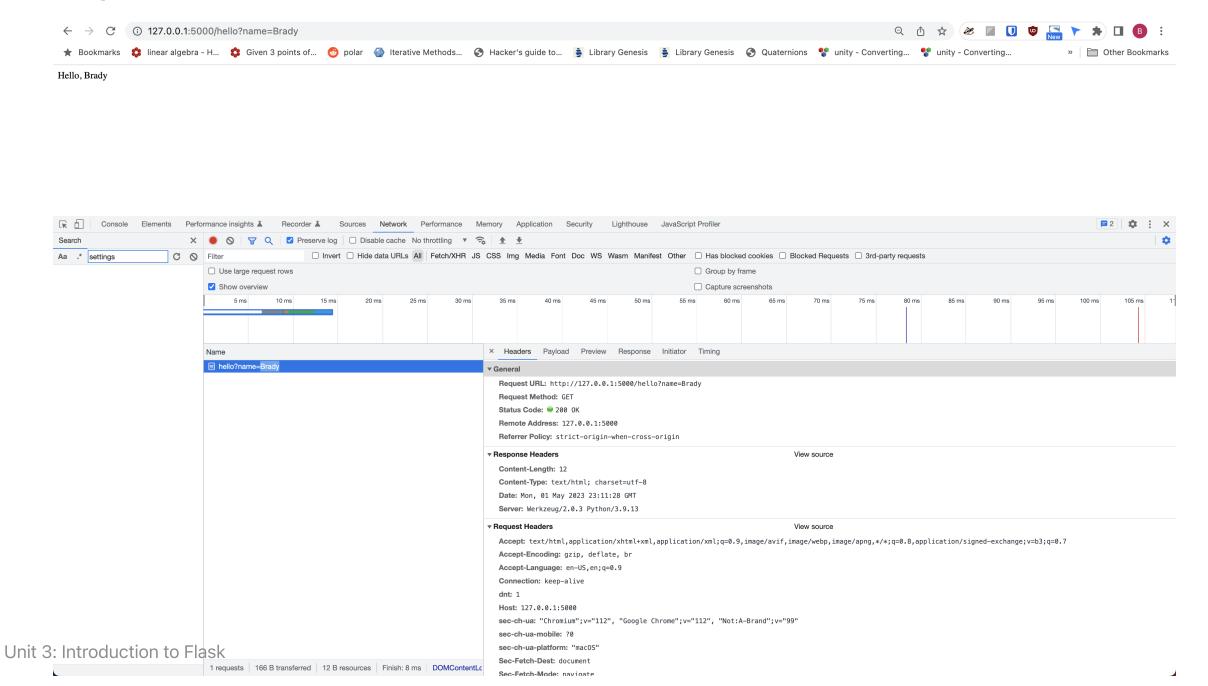
app.run()
```

Notice that request.args is a dictionary! Remember those?

```
my_dictionary = {"name": "Brady"}
```

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Request looks like this



Working With Multiple Arguments

http://127.0.0.1:5000/hello?name=Brady&age=31&city=Salt+Lake+City

```
from flask import Flask, request
app = Flask(__name__)
@app.route('/hello')
def hello():
    return "Here are all your args:" + str(request.args)
app.run()
```

Looks similar to

```
my_dictionary = {"name": "Brady", "age": 31, "city": "Salt Lake City"}
```

Handling User Input with Query Parameters

```
from flask import Flask, request
app = Flask(__name___)
@app.route('/greet')
def greet():
        name = request.args.get('name')
        if name:
                return "Hello, " + {name}
        else:
                return 'Please enter your name.'
app.run()
```

Query parameters are Often Used to Filter, Sort or Search For Data

```
from flask import Flask, request
app = Flask(__name___)
# A list of data in JSON format
people = [
    {"name": "Brady", "age": 31},
{"name": "Marcos", "age": 31},
{"name": "Nephi", "age": "??"},
# A route that filters the data by a 'name' query parameter
@app.route('/people')
def filter people():
    # Get the 'name' query parameter from the URL
    name = request.args.get('name')
    if name is None:
         return str(people)
    # Filter the data by name, if name is provided, using a loop
    filtered people = []
    for person in people:
         if person['name'] == name:
             filtered people.append(person)
    return str(filtered people)
app.run(debug=True)
# http://localhost:5000/people?name=John
```