

QUERY STRING AND REQUEST BODY

USING FLASK

WHAT IS FLASK?

Good intentions

Lightweight

WSGI

Werkzeug and Jinja

Why Flask for CSC 210?

Minimalist features

Quick start

Explicit design

External packages

To submit *query parameters* to the server

- HTML Form submissions (via GET)
- They use the familiar key/value structure albeit in a hard-to-read syntax

Structure

- Starts with: **?**
- K/Vs separated by: **=**
- K/V pairs - separated by: **&**

```
http://www.example.com/user?firstName=Robert&lastName=Kostin
```

WHAT IS THE QUERY STRING?

Kinda works like:

```
{  
  firstName: Robert,  
  lastName: Kostin  
}
```

QUERY STRING VS REQUEST BODY

Query String

```
GET /users?firstName=Robert&lastName=Kostin HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
Host: example.com
Content-Type: text/html; charset=utf-8
Accept-Language: en-us
```

Request Body

```
GET /users HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
Host: example.com
Content-Type: text/html; charset=utf-8
Accept-Language: en-us
```

```
firstName=Robert&lastName=Kostin
```

FLASK REQUEST CONTEXT

Each request → request context

Flask Attributes (Chapter 2)

- `request.query_string` - raw unparsed query string as a string
 - `request.args` - dictionary of key/value pairs from the query string
 - `request.get_data()` - string of raw request body
 - `request.form` - dictionary of key/value pairs from the request body
- ...and more*