

launch _code

LC101 2.4



Class Agenda

1. Announcements
2. Last Class Review
3. New Material
4. Studio (Flicklist 2)



Announcement

The Mentor Center is closed during the day on Wednesday, Thursday and Friday.

GeekGala is October 19th. Tickets can be bought through EventBrite

LaunchCode staff need to see 1st assignment by end of class

Hackathon this Saturday at the Mentor Center

• EXCITING SURPRISE NEWS •



Review

URL - protocol, host, path, query parameters, fragment

HTTP - A set of rules that allows 2 computers to exchange information (like HTML documents)

Flask - A Python web framework that allows us to handle HTTP Requests, and return HTTP Responses



HTML Forms

Forms allow you to gather information from the user, and pass it to the server.



Form Elements

`<form action="https://duckduckgo.com" method="get">` -- action defaults to the current webpage, and method defaults to get

`<label for="search-term">Search term:</label>`

`<input type="text" id="search-term" name="how we want to refer to the input type" />`

`<input type="submit" />` --a standard submit button

`</form>`



HTML <input types>

<input type="text" /> Textbox

<input type="password" /> Hidden text Textbox

<input type="submit" /> button for submitting form

<input type="reset" /> button to reset everything in the form

<input type="radio" /> Radio Buttons

<input type="checkbox" /> Check Box

<input type="button" /> Button



Example

Let's see them in action.

input_example.html



Query parameters

Last class we learned that URL's can contain query parameters

<https://duckduckgo.com/?q=food>

We learned from our prep work that a query parameter is a way of passing information to the server.

We even saw an example

• `duckduckgo_example.html`



Client - Server

The client can pass in any query parameter they want.

However a query parameter will only work if the server has instructions on handling that query!



Flask - Forms

When we work with Flask, we are writing code for our server, so we have the opportunity to handle query parameters.

Remember, we as the developer must create handlers for the query parameters.



Flask - Forms

We have to create the form with HTML first.

We have to create a handler for when the form is submitted.



Flask - Forms

Let's see an example.

`2.4/flask_example/main.py`



Flask - Request Documentation

<http://flask.pocoo.org/docs/0.12/api/#flask.Request>

What else is available to us with the flask.Request library?

Form, args, values, cookies, stream, data, etc.
Looks like we can grab a lot more information if we need it. Let's take a look at what some of this returns.



GET vs POST

Get

Cached

In browser history

Can be bookmarked

Retrieve data

Post

Never cached

Not in browser
history

Cannot be
bookmarked

Can contain
sensitive info



HTTP Status Codes

1xx - Informational response

2xx - Success

3xx - Redirection

4xx - Client error

5xx - Server error

405 - Method not allowed (we used GET, or POST and they aren't accepted)

Studio - Flicklist 2

We create one form together, and students create a second form in their TF groups.

