Un gran poder conlleva una gran responsabilidad

html forms

Python/Flask

Last talk that doesn't involve databases

Good news:

Lots of people who know stuff in this class. (ask here or post on piazza)

Schedule

- ❖ today: flask & forms

- ❖ next class: flask and postgreSQL

- ❖ next Tuesday: RAT

- ❖ next Thursday: 1st Lightning round (need access to secure network and good familiarity w/ postgres.

git clone https://github.com/zacharski/AlienAbductions2.git

Alien Abduction

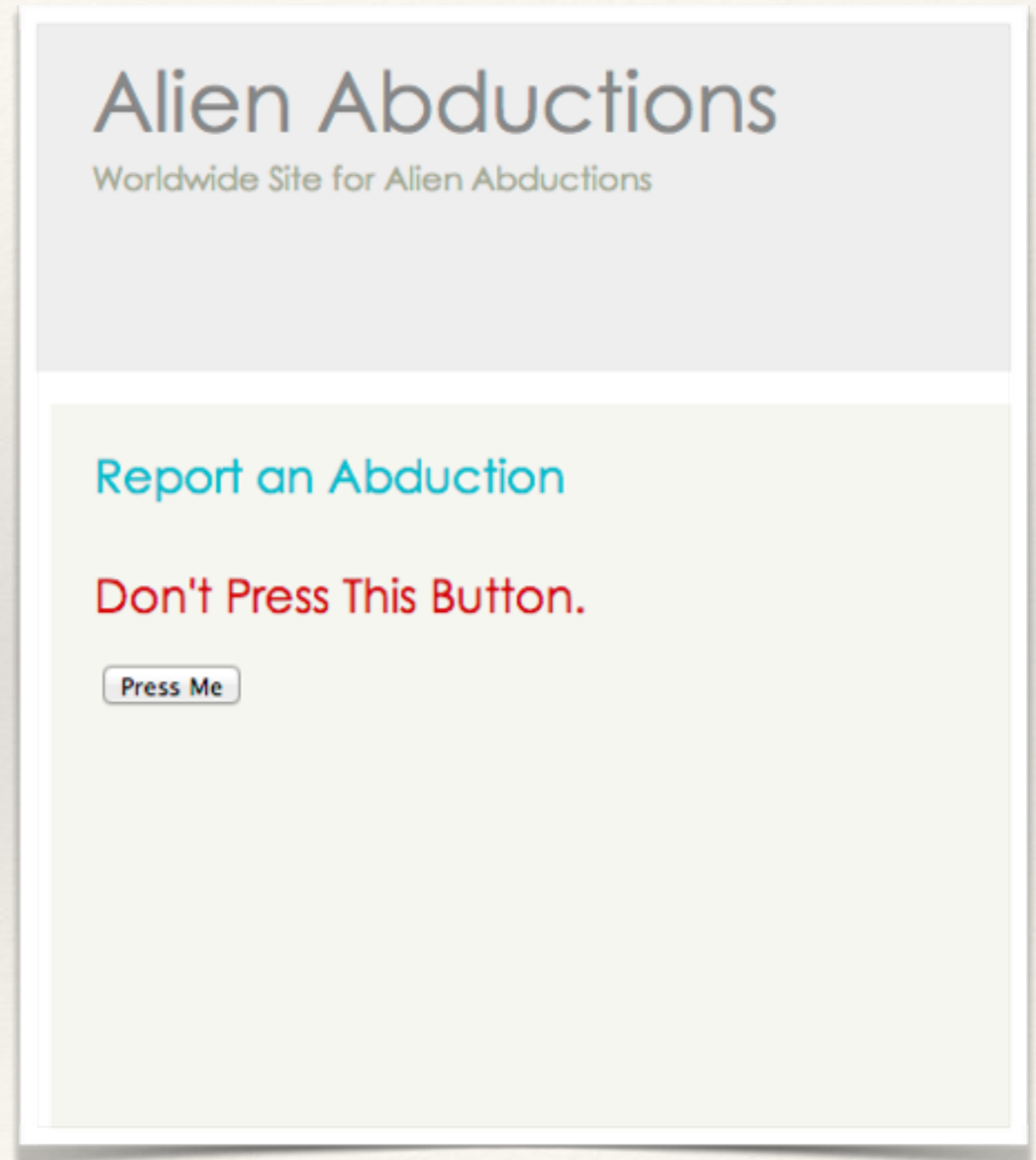*Code disponible par courrier git*

forms

Esto es fácil.

This is easy

But here is an even simpler example…

One 'submit' button

❖ The world's simplest form …

Alien Abductions

Worldwide Site for Alien Abductions

Report an Abduction

Don't Press This Button.

Press Me

и результат

and the result

and now the code behind the magic…

Alien Abductions
Worldwide Site for Alien Abductions

Report an Abduction

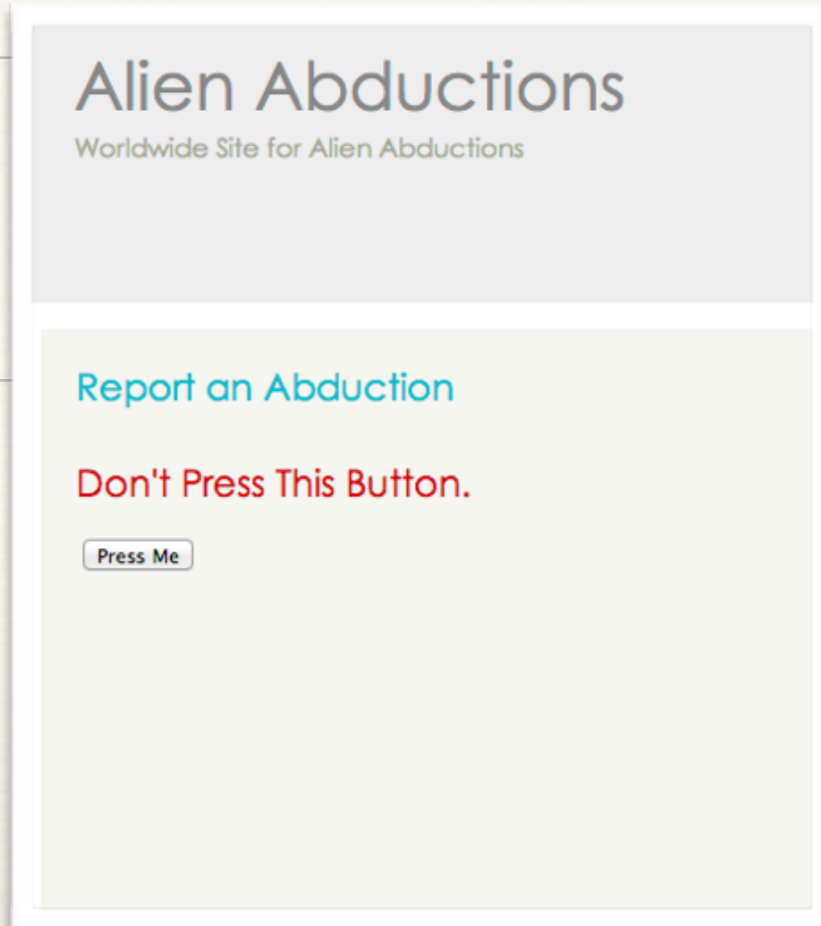Thanks for pressing that button!

The code ...


```
<form method = "post" action = "/simple2">
  <h2> Don't Press This Button.</h2>

    <p>

      <input type="submit" value="Press Me" />

    </p>
</form>
```
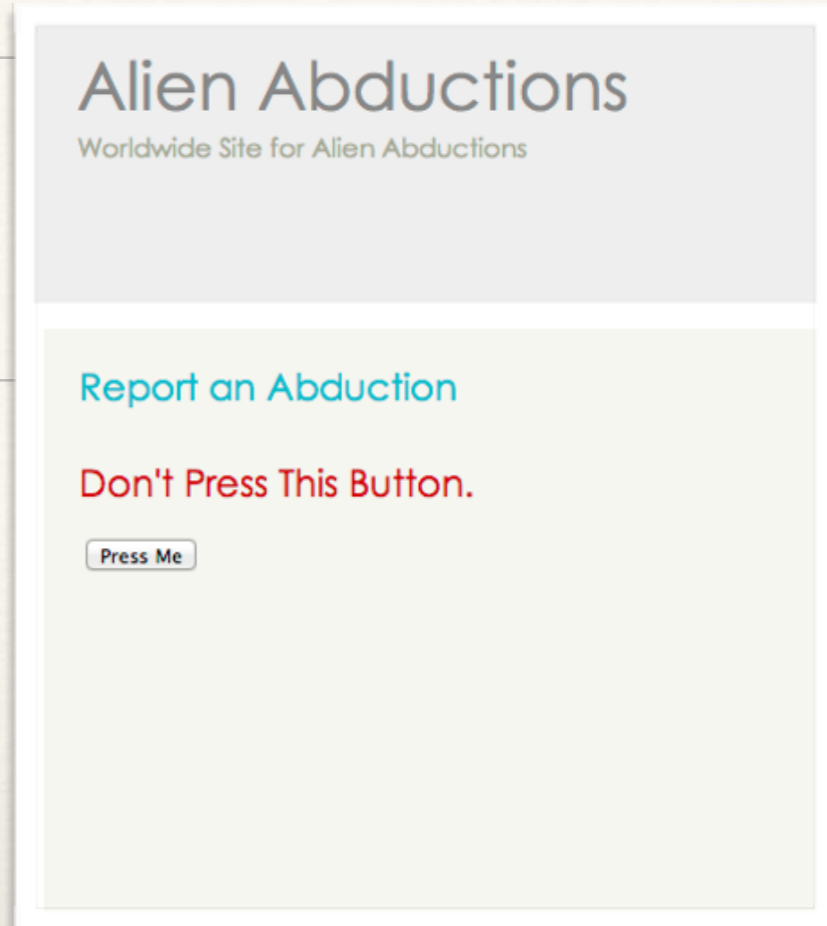
The code ...


```
<form method = "post" action = "/simple2">
  <h2> Don't Press This Button.</h2>

    <p>

      <input type="submit" value="Press Me" />

    </p>
</form>
```

<form

- ❖ method="get": data limited to 256 characters; not secure
- ❖ method="post: unlimited data; more secure

From the HTML specs

- If the processing of a form is idempotent (i.e. it has no lasting observable effect on the state of the world), then the form method should be GET. Many database searches have no visible side-effects and make ideal applications of query forms.

- If the service associated with the processing of a form has side effects (for example, modification of a database or subscription to a service), the method should be POST.

The code …

Alien Abductions
Worldwide Site for Alien Abductions

Report an Abduction

Don't Press This Button.

Press Me

```
<form method = "post" action = "/simple2">
  <h2> Don't Press This Button.</h2>
      <p>
        <input type="submit" value="Press Me" />
      </p>
</form>
```
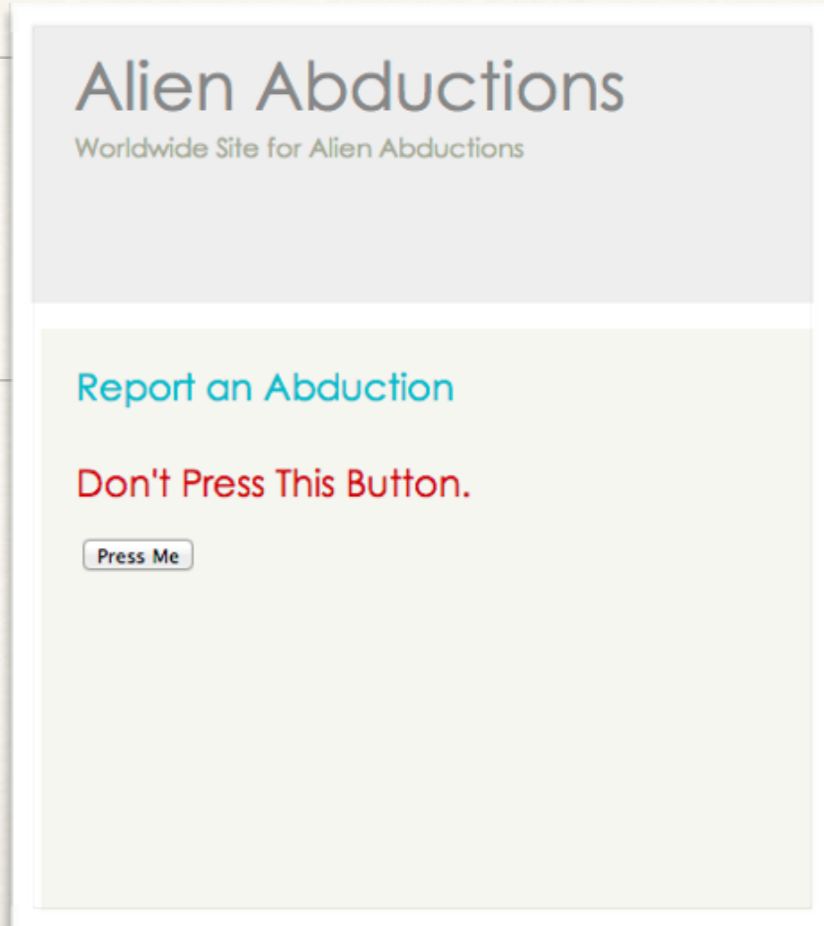
and the result

```
@app.route('/simple2', methods= ['POST'])
def simple2():
    return render_template('simple2.html')
```
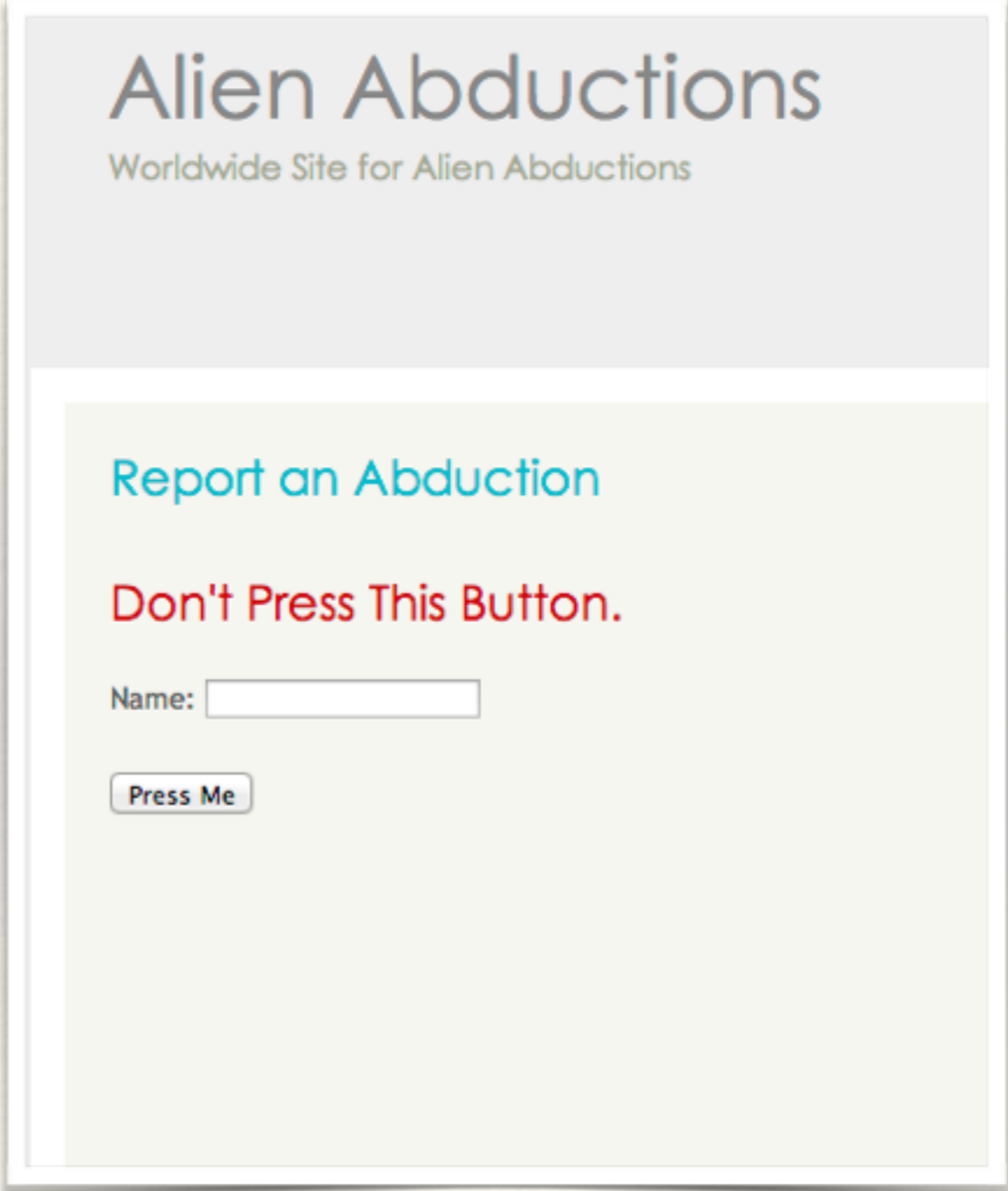
The world's second simplest form

❖ Wow. A web page that allows for user input. How novel!

Alien Abductions
Worldwide Site for Alien Abductions

Report an Abduction

Don't Press This Button.

Name: [   ]

[Press Me]

The method so far

```
<form method = "post" action = "/something">

        …
      <input type="submit" value="text on button" />



</form>
```

```
<form method = "post" action = "/simple4">

  <h2> Don't Press This Button.</h2>
  <p>Name:
  <input type="text" id="someName" name="name" />
  </p>
  <p>
  <input type="submit" value="Press Me" />
  </p>

</form>
```

When a user presses the submit button where does she go?

```
<input type="text" id="someName" name="name" />
```

create a text input box

unique identifier for this html
element (used client side)

name used by server when
this form is submitted

then on server…

```python
@app.route('/simple4', methods=['POST'])
def simple4():
  return render_template('simple4.html',
                name=request.form['name'])
```

Lorem Ipsum Dolor

forms

```
<input type="number"
       name="day"
       min="1"
       max="31"
       step="1"
       value="1"
       size="3"/>
```

Report an Abduction

First Name	
Last Name	
Date Abducted	1 ⬍ 1 ⬍ 2011 ⬍
Location (city)	[_____] AL ⬍
How Scary?	not scary [———⚪———] scary
Appearance	

☐ bald   ☐ almond eyes

☐ blue   ☐ long fingers

Report Abduction

checkboxes

```
<input type="checkbox"
name="bald" value="checked" />
```

Python

```
print(request.form['bald'])
'checked'
```


Report an Abduction

First Name

Last Name

Date Abducted   1   1   2011

Location (city)   AL

How Scary?   not scary ——○——— scary

Appearance

☐ bald   ☐ almond eyes

☐ blue   ☐ long fingers

Report Abduction

checkboxes

```
<tr><td>Appearance</td><td> </td></tr>
<tr><td><input type="checkbox" name="appearance" value="bald" />
bald</td>

<td><input type="checkbox" name="appearance" value="almond eyes" />
almond eyes</td></tr>

<tr><td><input type="checkbox" name="appearance" value="blue" />
blue</td>
<td><input type="checkbox" name="appearance" value="fingers" /> long
fingers</td></tr>
```

```
print(request.form.getlist('appearance'))
'checked'
```

checkboxes


```
print(request.form.getlist('appearance'))
[u'bald', u'almond eyes', u'blue', u'fingers']
```

Your task (in a team)

- ❖ clone the alien abduction repository

- ❖ get all values to display on the report2 page

- ❖ add additional input field for extra xp

- ❖ the more people that demo in a team, the more xp.