Todd Smith
tbsmith@fullsail.com

Welcome to SSL Day 3!

Forms and Server-Side Validation

Day 3

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Server-Side Languages

Overview

- Questions about Day2 or Lab2?

- Watch Screencasts

- Forms

- Server-Side Validation

- Helpers

Day 3

Server-Side Languages

Sending information to the server-side script

The GET Method

Note that query strings (name/value pairs) is sent in the URL of a GET request:

```
/test/demo_form.asp?name1=value1&name2=value2
```

Some other notes on GET requests:

- GET requests can be cached
- GET requests remain in the browser history
- GET requests can be bookmarked
- GET requests should never be used when dealing with sensitive data
- GET requests have length restrictions
- GET requests should be used only to retrieve data

http://www.w3schools.com/tags/ref_httpmethods.asp

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Sending information to the server-side script

The POST Method

Note that query strings (name/value pairs) is sent in the HTTP message body of a POST request:

```
POST /test/demo_form.asp HTTP/1.1
Host: w3schools.com
name1=value1&name2=value2
```

Some other notes on POST requests:

- POST requests are never cached
- POST requests do not remain in the browser history
- POST requests cannot be bookmarked
- POST requests have no restrictions on data length

http://www.w3schools.com/tags/ref_httpmethods.asp

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Sending HTTP requests: The form

```html
<html>
    <body>
        <form action="receiver.php"
            enctype="multipart/form-data"
            method="post">

            Name: <input type="text" name="name"><br/>
            Age: <input type="text" name="age"><br/>

            <input type="submit" name="Go">

        </form>
    </body>
</html>
```

Name: [   ]
Age: [   ]
[Submit]

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Form Enctype

Value	Description
application/x-www-form-urlencoded	Default. All characters are encoded before sent (spaces are converted to "+" symbols, and special characters are converted to ASCII HEX values)
multipart/form-data	No characters are encoded. This value is required when you are using forms that have a file upload control
text/plain	Spaces are converted to "+" symbols, but no special characters are encoded

http://www.w3schools.com/tags/att_form_enctype.asp

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Server-Side Languages

Receiving HTTP requests

PHP

```php
$query = $_GET;
```

Associative Array

Python

```python
import cgi

query = cgi.FieldStorage()
```
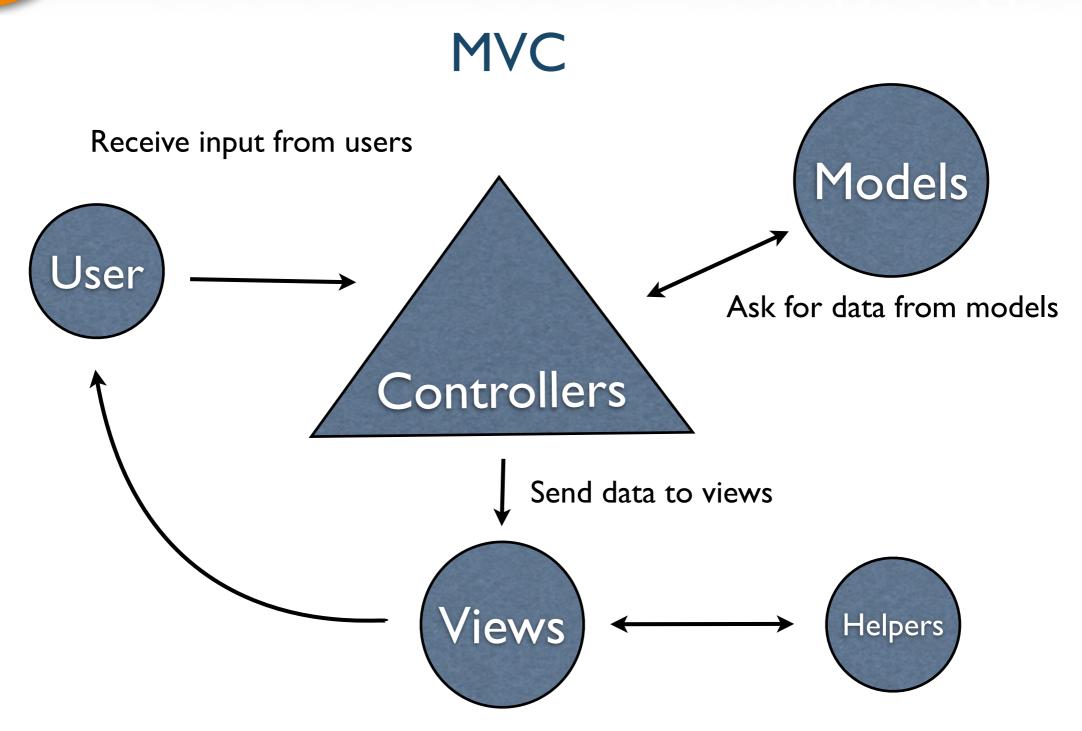
Dictionary

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Read about associative arrays in PHP

http://php.net/manual/en/language.types.array.php
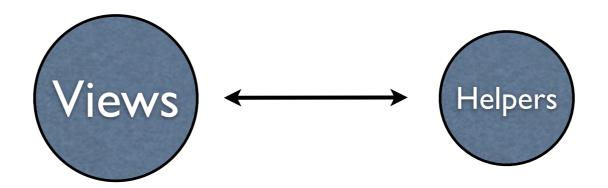
Read about dictionaries in Python

http://docs.python.org/2/tutorial/datastructures.html

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MVC

Receive input from users

Models

Ask for data from models

User → Controllers

Send data to views

Views ↔ Helpers

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Helpers

The helper class constructs HTML for the views.

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Server-side validation flow

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