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Welcome to SSL Day 2!

Controllers and pretty URLs

Day 2

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Server-Side Languages

Overview

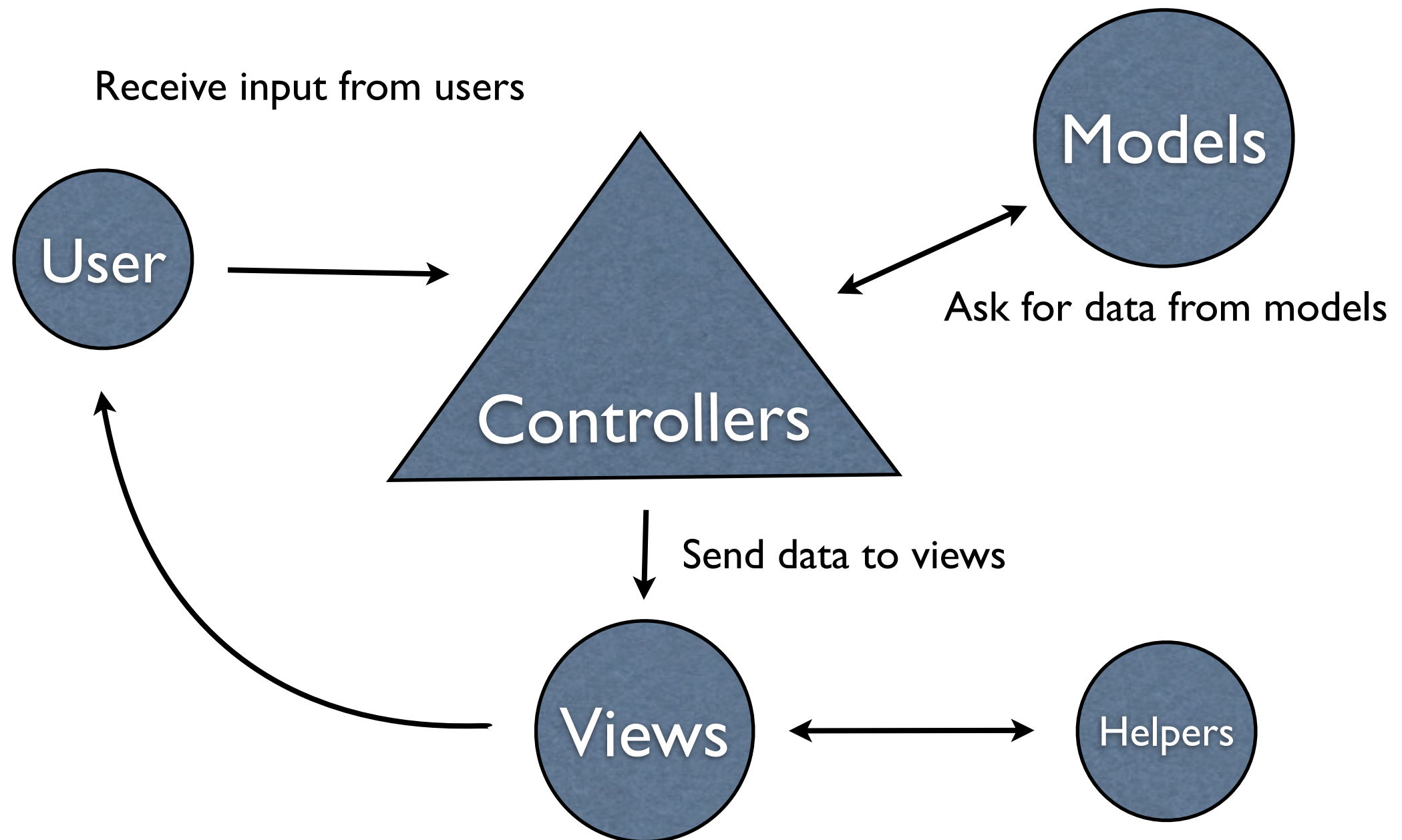- Questions about Day1 or Lab1?
- Watch Screencasts
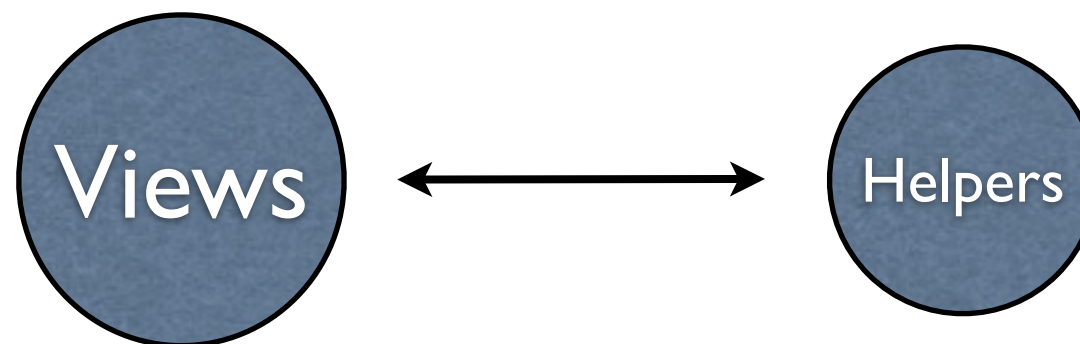- Controllers
- Helpers
- URL Redirects

Day 2

MVC

Receive input from users

User

Models

Controllers

Ask for data from models

Send data to views

Views ⟷ Helpers

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Helpers

Views ⟷ Helpers

The helper class constructs HTML for the views.

Day 2

Server-Side Languages

Responding to the URI in PHP

```php
<?php

if (empty($_GET["controller"])) {
    $con = 'home';
} else {
    $con = $_GET["controller"];
}


if ($con == 'home') {
    include "controllers/home.php";
    $controller = new Home();
    $controller->get($_GET);
} else if ($con == 'utilities') {
    include "controllers/utilities.php";
    $controller = new Utilities();
    $controller->get($_GET);
} else if ($con == 'user') {
    include "controllers/user.php";
    $controller = new User();
    $controller->get($_GET);
}


?>
```

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Server-Side Languages

Top of the PHP Home controller

```php
<?php

/*
    This is our main interface for the user
    for handling the displaying of static pages
*/

require_once 'models/view.php';

class Home {
    function get($pairs, $data = '') {

        if (empty($pairs['action'])) {
            $action = 'home';
        } else {
            $action = $pairs['action'];
        }


        $view_model = new View();
        $view_model->getView("header");
```

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Server-Side Languages

Responding to the URI in python

```python
#!/usr/bin/python

import cgi

pairs = cgi.FieldStorage()

if 'controller' not in pairs:
    con = 'home'
else:
    con = pairs.getvalue('controller')

if con == 'home':
    from controllers.home import Home
    Home().get(pairs)
elif con == 'news':
    from controllers.news import News
    News().get(pairs)
elif con == 'user':
    from controllers.user import User
    User().get(pairs)
else:
    # default
    from controllers.home import Home
    Home().get(pairs)
```

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Server-Side Languages

Top of the python home.py controller

```python
#!/usr/bin/python

from models.view import View

class Home():
    def get(self, pairs, data={}):

        if 'action' not in pairs:
            action = 'home'
        else:
            action = pairs.getvalue('action')

        view_model = View()
        view_model.print_header()
        view_model.get_view("header", data)
        view_model.get_view("navbar", data)

        if action == 'home':
            view_model.get_view('home', data)
        elif action == 'contact':
            view_model.get_view('contact', data)
```

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Making nicer URLs

Add to .htaccess in your root web directories

```
RewriteEngine On
RewriteRule ^([a-z]+)/([a-z]+)$ /index.py?controller=$1&action=$2
```

/etc/apache2/extra/http-vhosts.conf

Restart apache!

Add this:

```
<VirtualHost *:80>
    DocumentRoot "/Users/tbsmith/Sites/python.ssl1304.com"
    DirectoryIndex index.py
    <Directory /Users/tbsmith/Sites/python.ssl1304.com>
        Options +FollowSymLinks
    </Directory>
    AddHandler cgi-script .py
    ServerName python.ssl1304.com
    ErrorLog "/var/log/apache2/ssl1304-python-error_log"
    CustomLog "/var/log/apache2/ssl1304-python-access_log" common
</VirtualHost>
```
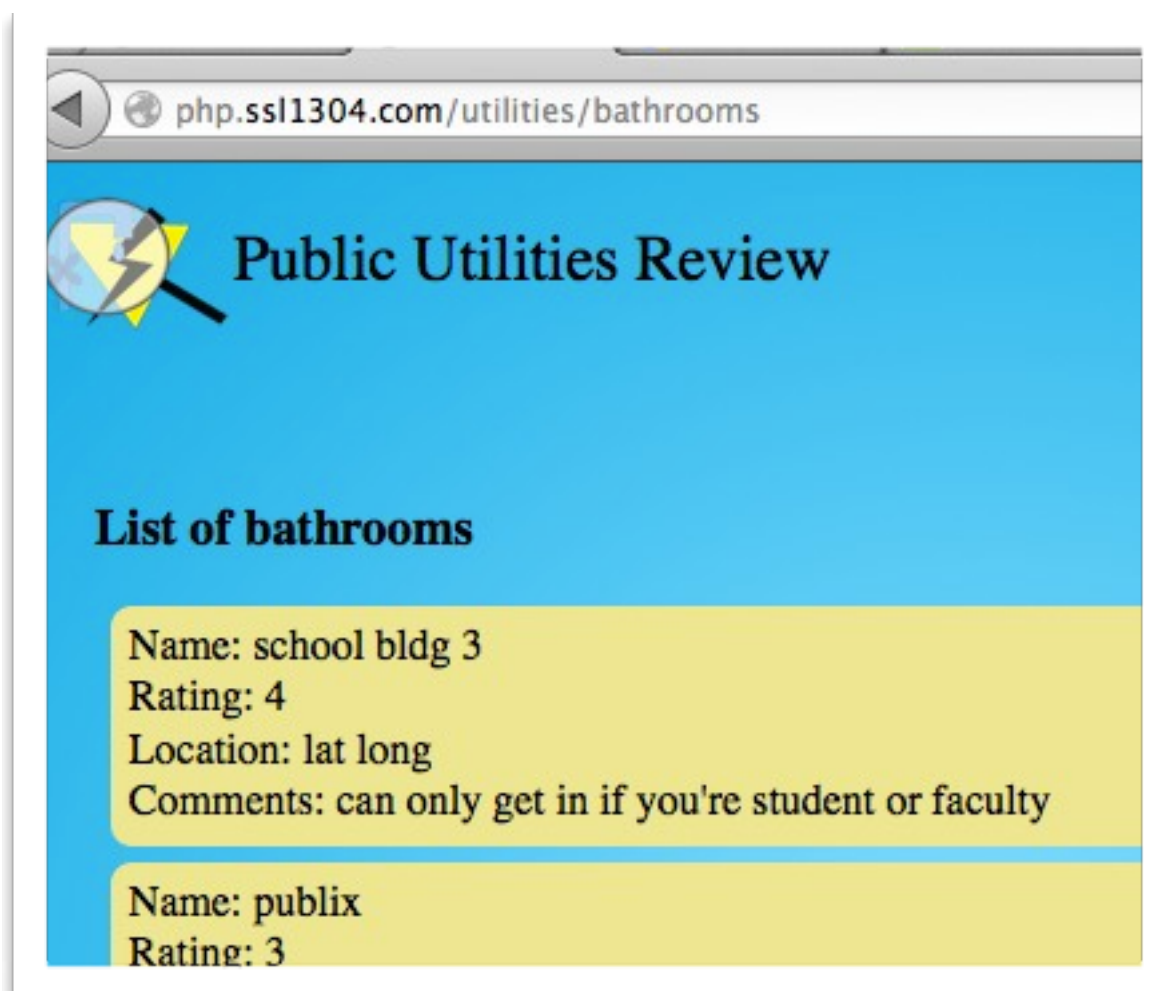
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Server-Side Languages

Pretty URL Test

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Server-Side Languages

Best Practices for URL SEO

- Number of words <= 3

- Use hyphens to separate words

- No weird characters

example.com/category-keyword/primary-keyword

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Lab 2: Using controllers and pretty URLs

- Add controllers to your two websites

- Rewrite your URLs for readability and SEO

- Make a screencast tour of your code

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