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Welcome to SSL Day 7!

Intro to Frameworks



PHP: Codelgniter



clone this:

https://github.com/EllisLab/Codelgniter.git

The files in the Codelgniter folder will become your new web root

make day7.php.com now



Isolating the web user

Delete the extra stuff and make the folders web/ and logs/

Move the index.php file into web/

```
~/Sites/day7.php.com: ls
application logs system tests web
```



Isolating the web user

In your virtual hosting file, set the webroot to /web

```
<VirtualHost *:80>
    DocumentRoot "/Users/tbsmith/Sites/day7.php.com/web"
    DirectoryIndex index.php
    ServerName day7.php.com
    ErrorLog "/Users/tbsmith/Sites/day7.php.com/logs/error_log"
    CustomLog "/Users/tbsmith/Sites/day7.php.com/logs/access_log" common
</VirtualHost>
```



Isolating the web user

Hard-code these paths in /web/index.php

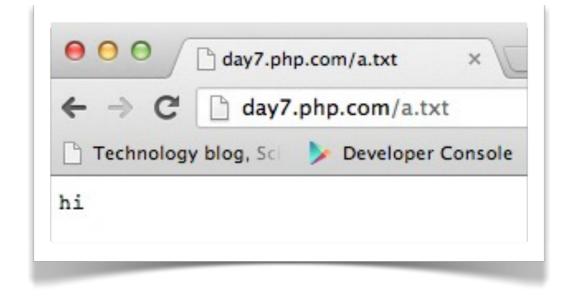
```
* This variable must contain the name of your "system" folder.
* Include the path if the folder is not in the same directory
* as this file.
  $system path = '/Users/tbsmith/Sites/day7.php.com/system';
* If you want this front controller to use a different "application"
* folder than the default one you can set its name here. The folder
* can also be renamed or relocated anywhere on your server. If
* you do, use a full server path. For more info please see the user guide:
* http://codeigniter.com/user guide/general/managing apps.html
* NO TRAILING SLASH!
   $application_folder = '/Users/tbsmith/Sites/day7.php.com/application';
```



Isolating the web user

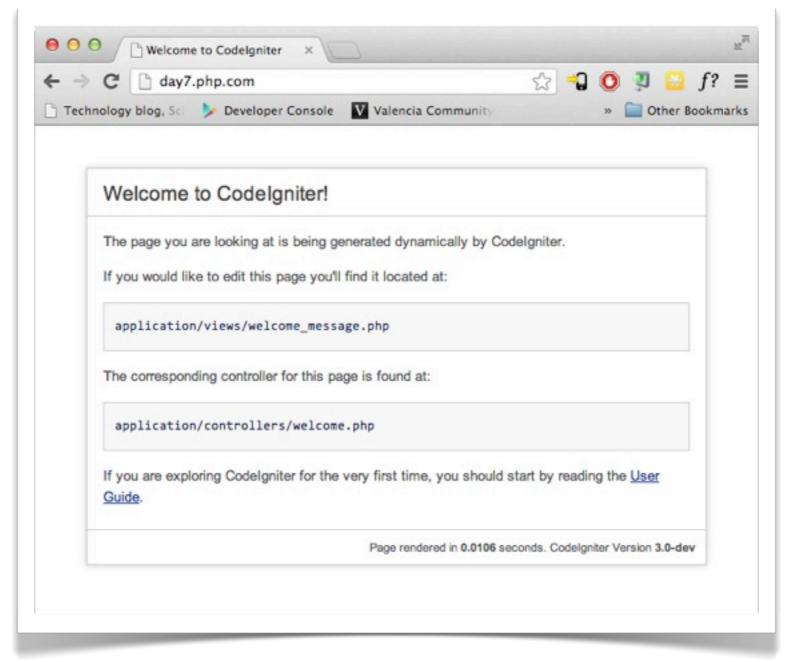
Now users at day7.php.com/ will be restricted to the web directory.

```
~/Sites/day7.php.com/web: ls
a.txt index.php
```





Test the site





Understanding CI Controllers

Search the web for "codeigniter controllers"

Follow the first 5 sections of this tutorial.

Codelgniter User Guide Version 2.1.3

CodeIgniter Home > User Guide Home > Controllers

Controllers

Controllers are the heart of your application, as they

- What is a Controller?
- Hello World
- Functions
- Passing URI Segments to Your Functions
- Defining a Default Controller



Python: Django



download this:

http://www.jetbrains.com/pycharm/download/index.html

The PyCharm IDE will handle our directory structure



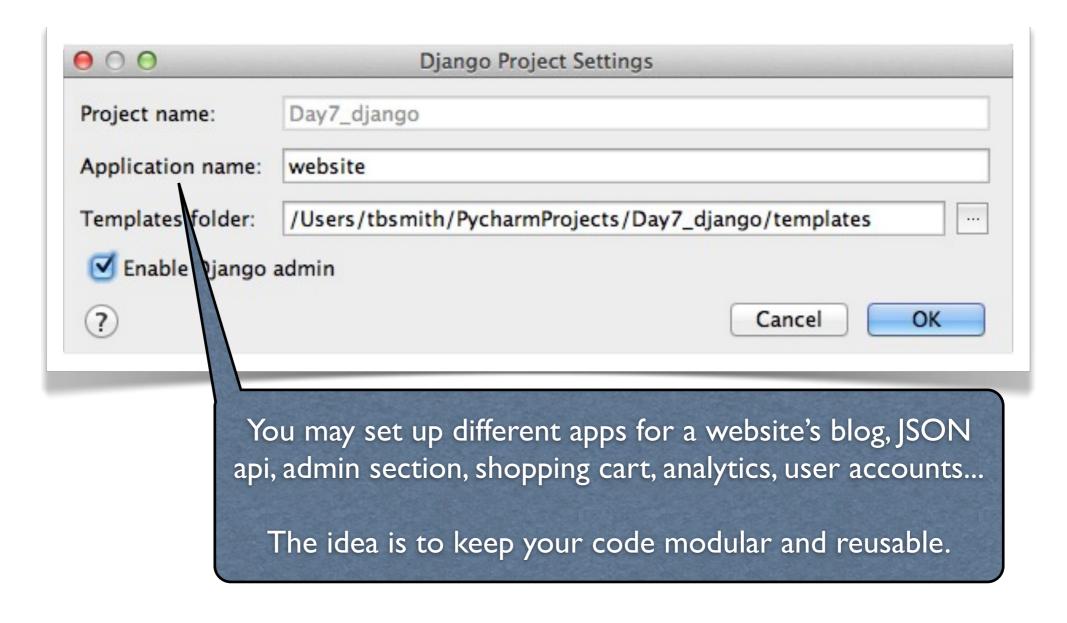
Starting the PyCharm Project



Project name:	Day7_django
Location:	/Users/tbsmith/PycharmProjects/Day7_django
Project type:	Django project \$
Interpreter:	Python 2.7.4 (/usr/local/bin/python) \$

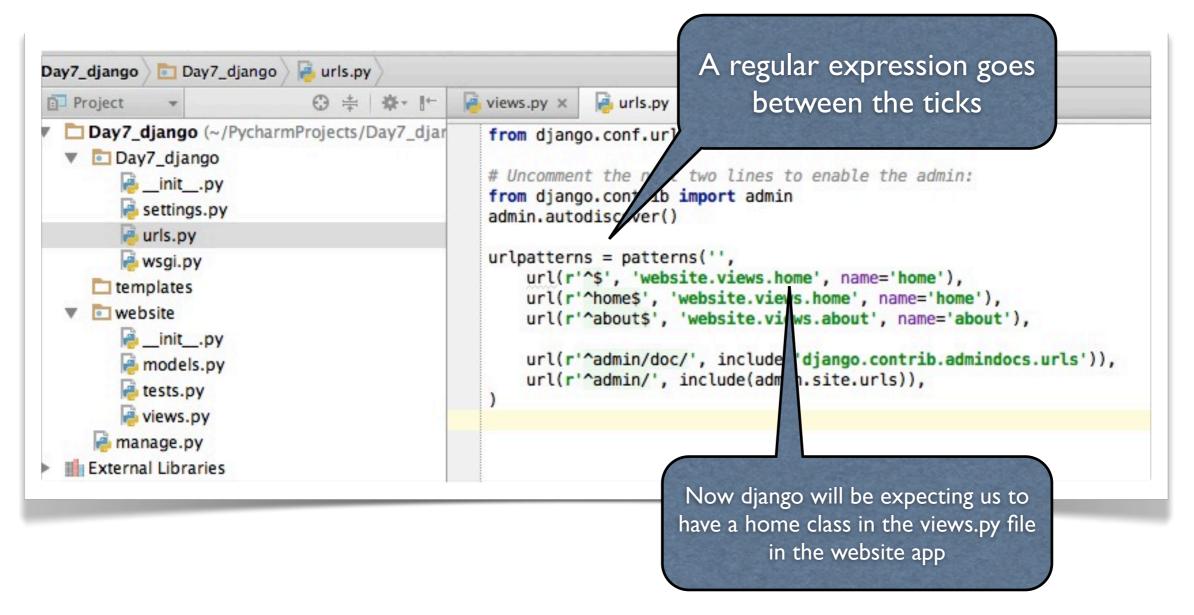


Starting the PyCharm Project



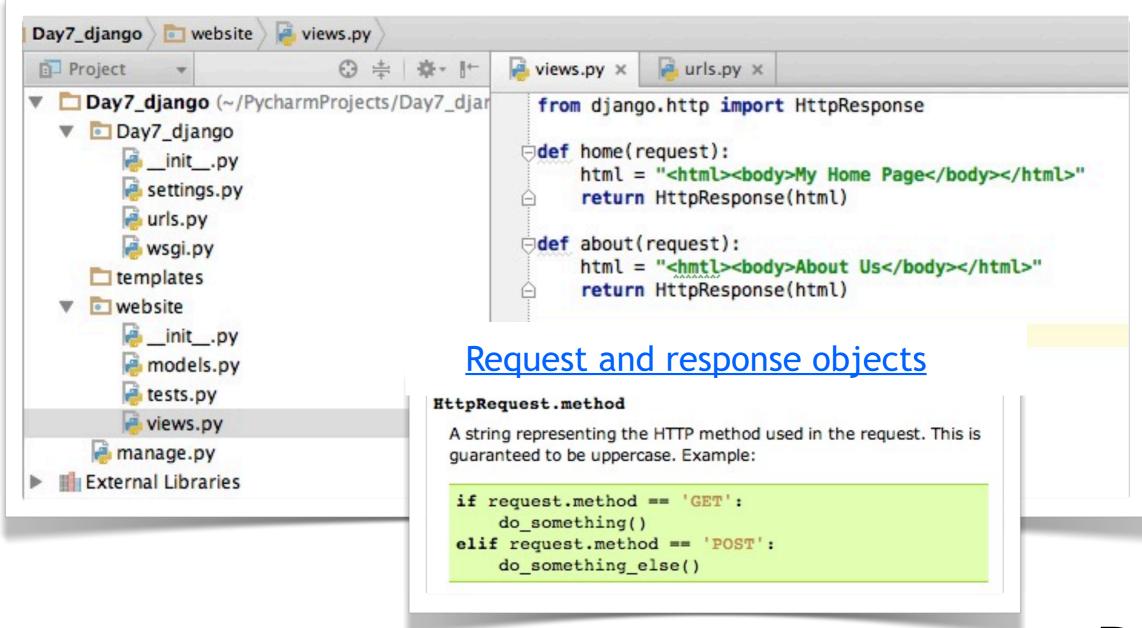


Set up your urls





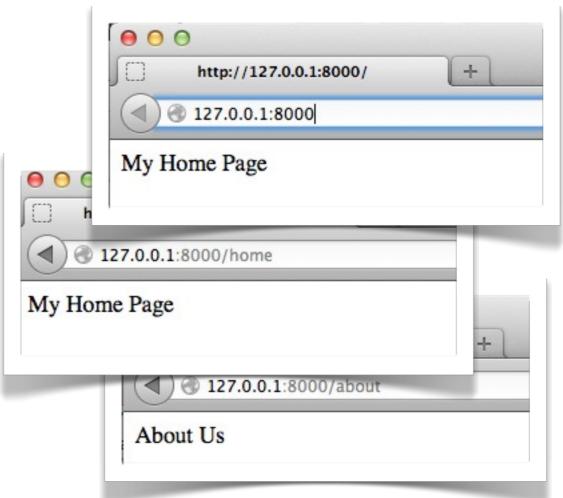
Set up your views





Test your views







The Templating System

```
□ Day/_django ▼
                         views.py
   Day7 django
               website
                                                                                                              urls.py ×
                               ⊕ ÷ ₩- 1-
                                               views.py ×
                                                             h header.html x
                                                                              h home.html ×
                                                                                              k about.html x
   Project
    Day7_django (~/PycharmProjects/Day7_djar
                                                 from django.http import HttpResponse

☐from django.template.loader import render_to_string

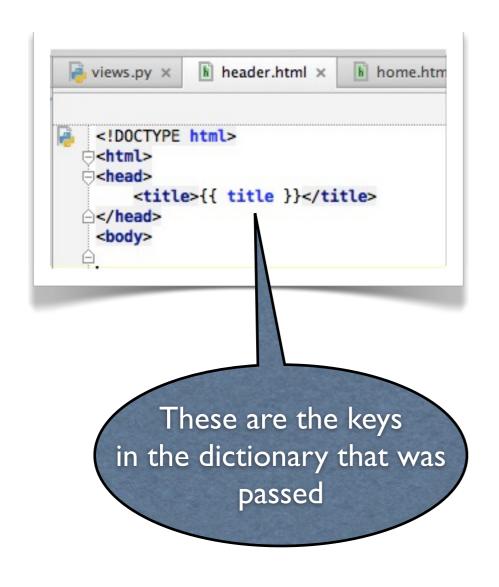
     ▼ Day7_django
           __init__.py
                                                 def home(request):
           settings.py
                                                      data = \{\}
2: Structure
           urls.py
                                                      data['title'] = "Home"
                                                      data['user_message'] = "You're in home"
           wsgi.py
     ▼ templates
                                                      return HttpResponse (
           about.html
                                                          render_to_string('header.html', data) +\
           footer.html
                                                          render to string('home.html', data) +\
                                                          render to string('footer.html', data)
           header.html
           home.html

▼ ebsite

                                                def about(request):
           init_.py
                                                      data = \{\}
                                                      data['title'] = "About"
           models.py
                                                      data['user message'] = "You're in about"
            tests.py
                                                      return HttpResponse (
           views.py
                                                          render_to_string('header.html', data) +\
                                                          render_to_string('about.html', data) +\
        manage.py
                                                          render_to_string('footer.html', data)
     External Libraries
```



The Templating System





Link to docs



Static Files

docs

Set your static url and directories in the settings.py file

```
h register_success.html
Project
                           ⊕ ‡ ‡ †
                                               views.py
 Day7_django (~/PycharmProjects/Day7_djar
                                                                            a settings.py
                                                 h register.html
 Day7_django
                                              # URL prefix for static files.
 ▼ static
                                              # Example: "http://example.com/static/", "http://static.
       CSS
                                              STATIC URL = '/static/'
       is is
                                              # Additional locations of static files
 templates
                                              STATICFILES_DIRS = (
   website
                                                  "/Users/tbsmith/PycharmProjects/Day7_django/static"
    amanage.py
                                                  # Put strings here, like "/home/html/static" or "C:/
                                                  # Always use forward slashes, even on Windows.
 III External Libraries
                                                  # Don't forget to use absolute paths, not relative p
```



Static Files

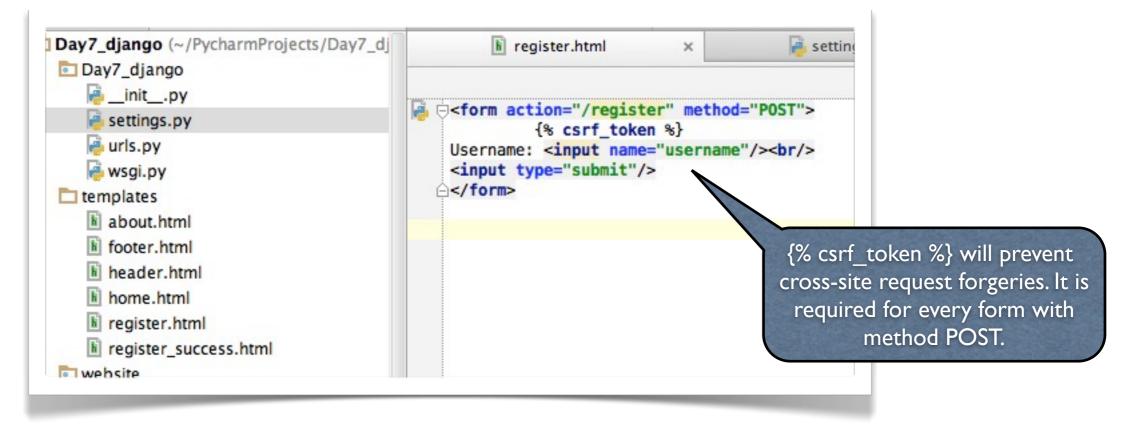
docs

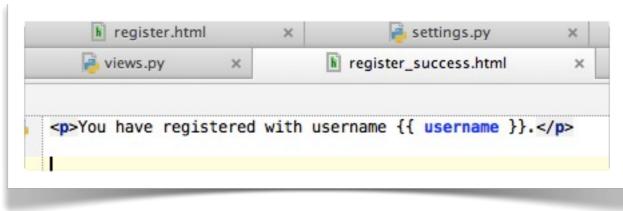
Use static template tags

```
▼ □ static
                                           <!DOCTYPE html>
     CSS
                                          □<html>
     is is
                                          ▼ templates
                                               {% load staticfiles %}
     li about.html
                                               <link type="text/css" rel="stylesheet" href="{% static 'css/foundation.css' %}"/>
     footer.html
                                               <link type="text/css" rel="stylesheet" href="{% static 'css/normalize.css' %}"/>
     header.html
                                               <script src="{% static 'js/vendor/custom.modernizr.js' %}"></script>
     home.html
     register.html
                                               <title>{{ title }}</title>
     li register_success.html
                                          website
                                           <body>
   a manage.py
```



A Simple Form: templates







A Simple Form: views

from django.template import RequestContext

This should be passed to the templates with forms with method POST.

```
if request.method == 'GET':
    return HttpResponse (
        render_to_string('header.html') +\
        render_to_string('register.html', RequestContext(request)) +\
        render_to_string('footer.html')
    }

elif request.method == 'POST':

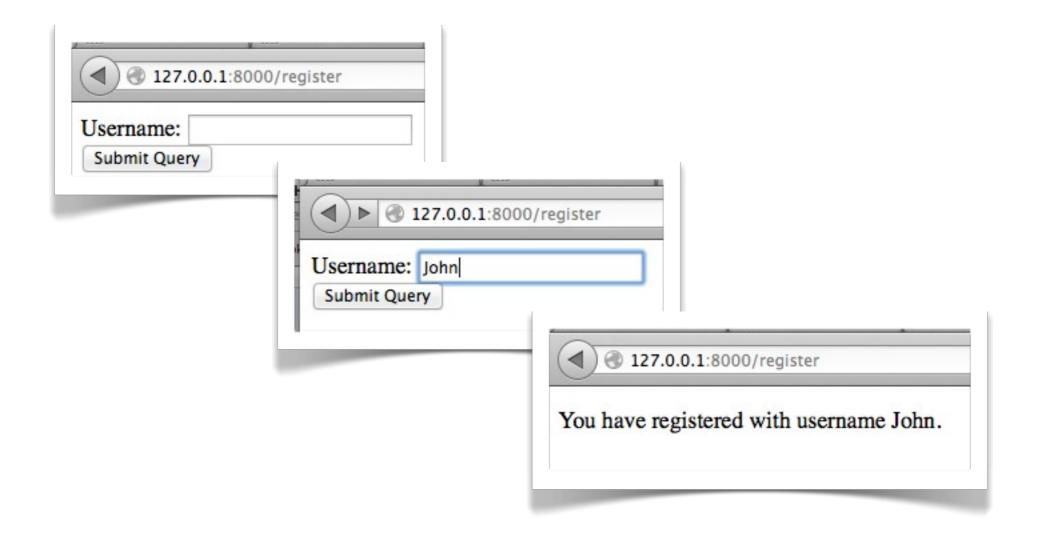
# Validate form
# Add user to database

data = {}
    data['username'] = request.POST['username']

return HttpResponse (
    render_to_string('header.html') +\
    render_to_string('register_success.html', data) +\
    render_to_string('footer.html')
}
```



A Simple Form: testing





Lab

Do this Django tutorial:

http://lightbird.net/dbe/blog.html