DJANGO TEWPLATE



O STATIC FILES

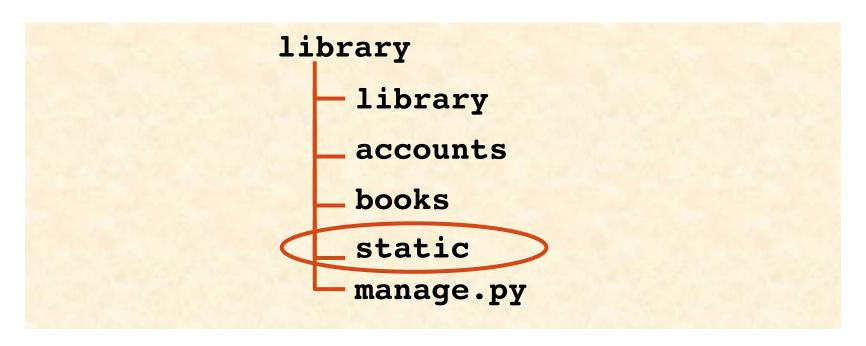
STATIC FILES

Aside from the HTML generated by the server,
web applications generally need to serve
additional files — such as images, JavaScript, or
CSS — necessary to render the complete web
page. In Django, we refer to these files as "static
files".



SETTINGS

• Step1: create a folder called "static"





SETTINGS

Step 2: open settings.py

```
STATIC_URL = '/static/'
STATICFILES_DIRS = (
    os.path.join(BASE_DIR, "static"),
)
```



SETTINGS

Set up TEMPLATES

```
TEMPLATES = [
    'BACKEND': 'django.template.backends.django.DjangoTemplates',
    'DIRS': [os.path.join(BASE_DIR, 'templates')],
    'APP DIRS': True.
    'OPTIONS': {
      'context_processors': [
        'django.template.context_processors.debug',
        'django.template.context processors.request',
        'django.contrib.auth.context_processors.auth',
        'django.contrib messages context processors.messages',
        'django.template.context processors.static',
```

- For example we want to use Boostrap as web framework.
- Getting boostrap:

http://getbootstrap.com/docs/3.3/getting-started/

Store the boostrop we downlown into "static"
 folder we created



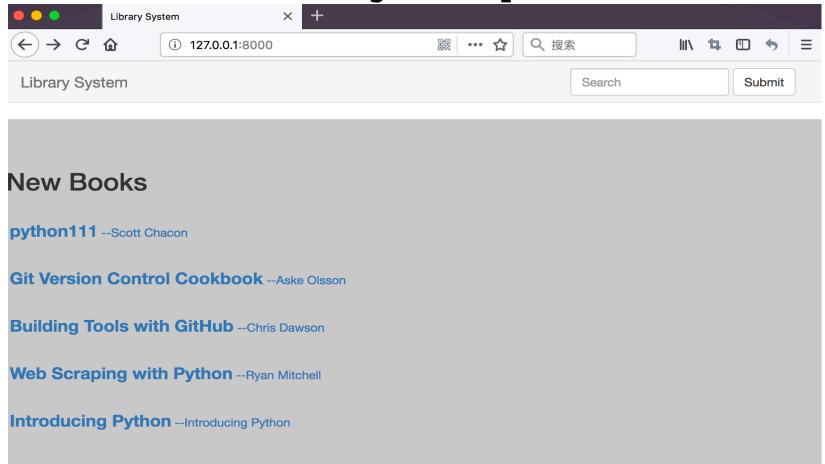
```
static
bootstrap
css
js
```



Open homepage.html

```
<head>
    <meta charset="UTF-8">
    <title>Library System</title>
    <script src="{{ STATIC URL }}bootstrap/js/jquery-</pre>
3.2.1.min.js" type="text/javascript" charset="utf-8"></script>
    <script type="text/javascript"</pre>
src="{{ STATIC URL }}boostrap/js/boostrap.min.js">
</script>
    <link rel="stylesheet" type="text/css"</pre>
href="{{ STATIC URL }}boostrap/css/boostrap.min.css">
</head>
```

Let write a navbar using boostrap



```
<nav class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-</pre>
toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-
expanded="false">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="/">Library System</a>
    </div>
    <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-</pre>
      <form class="navbar-form navbar-right" method="get" action="{% url</pre>
'book list' %}">
        <div class="form-group">
          <input type="text" class="form-control" placeholder="Search"</pre>
name="keyword">
        </div>
        <button type="submit" class="btn btn-default">Submit
      </form>
   </div>
  </div>
</nav>
```



BUILD-IN TEMPLATE TAGS

https://docs.djangoproject.com/en/2.0/ref/tem
 plates/builtins/



FOR

 Loops over each item in an array, making the item available in a context variable.



• The {% if %} tag evaluates a variable, and if that variable is "true"

```
{% if athlete_list %}
   Number of athletes: {{ athlete }}
{% elif athlete in locker room list %}
   Athletes should be out of the locker room
soon!
{% else %}
   No athletes.
{% endif %}
```

URL

 Returns an absolute path reference matching a given view and optional parameters.

```
{% url 'some-url-name' v1 v2 %}
```



EXTENDS

 Signals that this template extends a parent template.

```
{% extends "./base.html" %}
```



BLOCK

 Defines a block that can be overridden by child templates.



- Think about the "navbar" we created in static file part.
- In fact, most of page need the "navbar".
- Instead of writing the "navbar" in all page we can put it in base template which can be extended by other page.



 Let's create base.html which include the code of "Navbar" and bootstrap framework.

```
<head>
    <meta charset="UTF_8">
    <title \( \} \) block title \( \} \) endblock \( \} \) /title>
    <script src="{{ STATIC URL }}bootstrap/js/jquery-</pre>
3.2.1.min.js" type="text/javascript" charset="utf-
8"></script>
    <script
src="{{ STATIC URL }}bootstrap/js/bootstrap.min.js"
type="text/javascript" charset="utf-8"></script>
    <link rel="stylesheet" type="text/css"</pre>
href="{{ STATIC_URL }}bootstrap/css/bootstrap.min.css">
    {% block js %}{% endblock %}
    {% block css %}{% endblock %}
</head>
```



Rewriting the homepage.html

```
{% extends 'base.html' %}
{% block title %}Library System{% endblock%}
{% block css %}
<style>
.new-books {
  background-color: #ccc;
  padding: 20px 0;
  margin-top: 20px;
  text-align: center;
}
</style>
{% endblock %}
```



```
{% block content %}
  <div class="new-books">
    <h2>New Books</h2>
    {% for book in lastest books %}
        <a href="{% url 'book detail'</p>
pk=book.id %}">
              <span style="font-size: 20px;font-</pre>
weight: bold">{{ book.name }}</span>
              <span>--
{{ book.author.name }}</span>
            </a>
       {% endfor %}
  </div>
{% endblock %}
```

BUILD-IN TEMPLATE FILTER

• https://docs.djangoproject.com/en/2.0/ref/tem
plates/builtins/#built-in-filter-reference



 Converts a string into titlecase by making words start with an uppercase character and the remaining characters lowercase.

```
{{ obj.name }} → introducing PYTHON
```

```
{{ obj.name | title }}
```



LOWER

Converts a string into all lowercase.

introducing python



UPPER

Converts a string into all uppercase.

{{ obj.name | upper }}
INTRODUCING PYTHON



TRUNCATECHARS

• Truncates a string if it is longer than the specified number of characters. Truncated strings will end with a translatable ellipsis sequence ("...").



TRUNCATECHARS

```
{{ obj.intro|truncatechars:'60'}}
```

Git is the version control system developed by Linus Torv...



TRUNCATEWORDS

 Truncates a string after a certain number of words.

```
{{ obj.intro | truncatewords: '6' }}
```

Git is the version control system ...



LENGTH

 Returns the length of the value. This works for both strings and lists.

```
{{ object_list | length }}
```



YESNO

Maps values for True, False, and
 (optionally) None, to the strings "yes", "no",
 "maybe", or a custom mapping passed as a
 comma-separated list, and returns one of those
 strings according to the value

```
{{ value | yesno: "yeah, no, maybe" }}
```



Questions?

