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django

# Django Layout and Master Templates

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# Introduction

- Typically, we want to include a header section, and perhaps a footer section on all our web pages.
- We also typically include things like Bootstrap libraries, CSS files, JavaScript files etc. in all our web pages.
- Here we will create a “Master” template where we put all these things
- In that way we don’t have to repeat our self and make the same “boilerplate” code in all our web pages.

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# Header Template

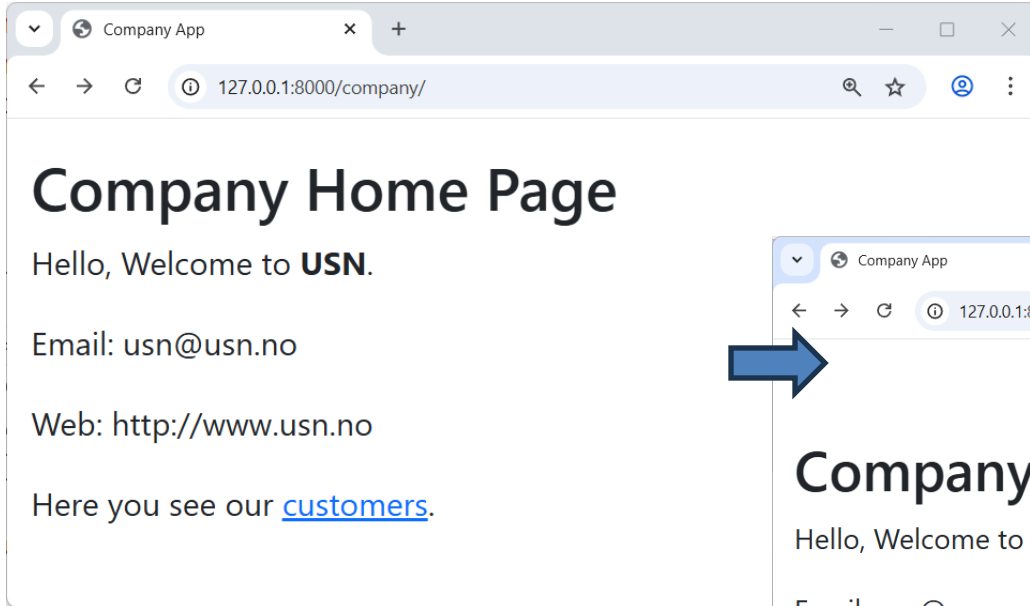


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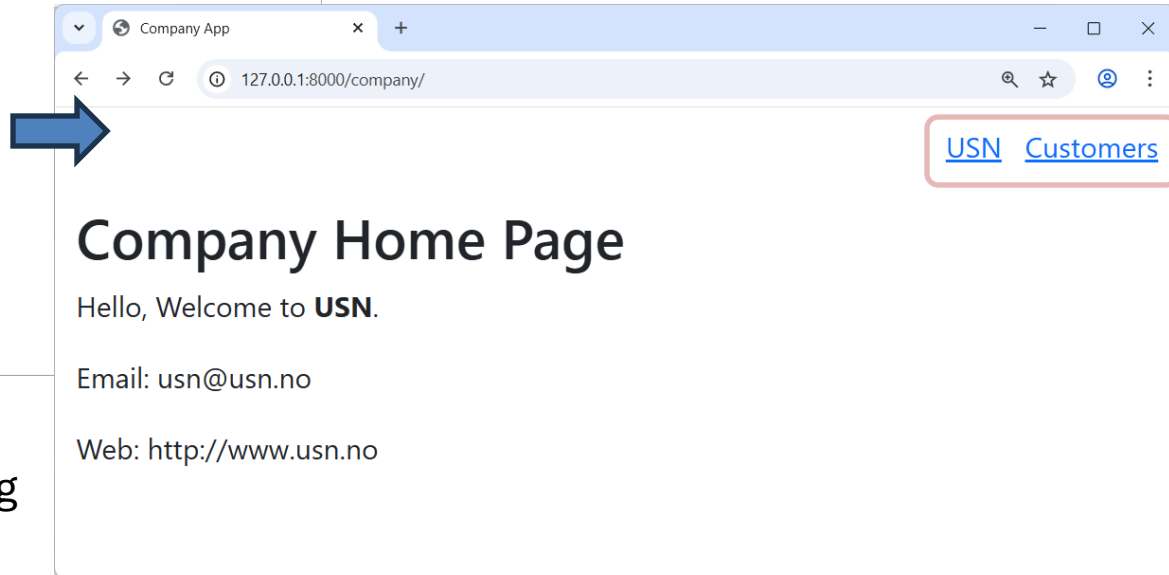
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# Header using Django include Tag

We have previously made a “Company” App:



We want to make a Header like this:

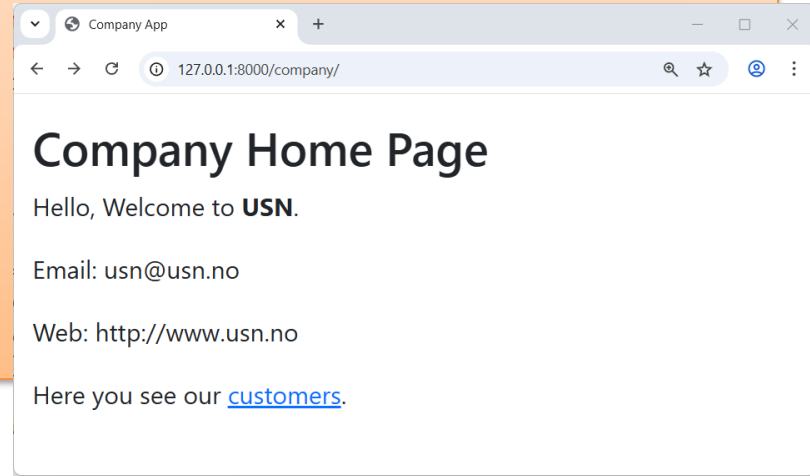


We will use the Django **include** Tag

# Existing Template

Existing Template (“**company.html**”):

```
<!DOCTYPE html>
<html>
  <head>
    <title>Company App</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
  </head>
  <body>
    <div class="container-fluid pt-3">
      <h1>Company Home Page</h1>
      <p>Hello, Welcome to <b>{{ company.companyname }}</b>.</p>
      <p>Email: {{ company.email }}</p>
      <p>Web: {{ company.website }}</p>
      <p>Here you see our <a href="/customers">customers</a>.</p>
    </div>
  </body>
</html>
```



# Create a New Header Template

We create a new Template called, e.g., “**header.html**” :

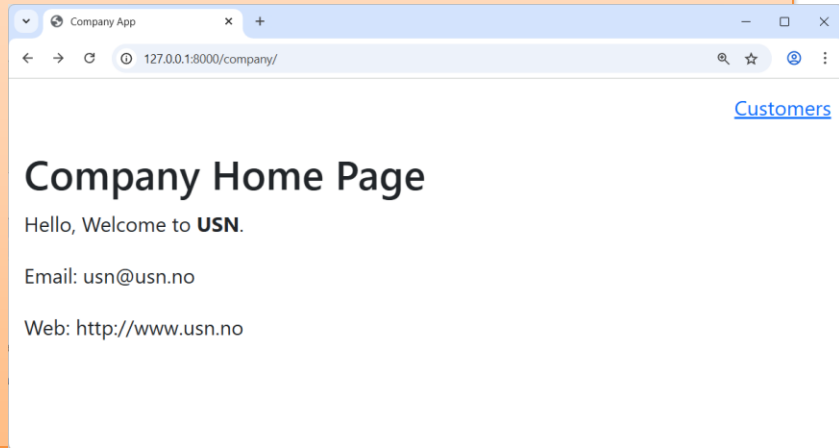
```
<p style="text-align: right; padding-top: 10px; padding-right: 10px;">  
<a href="/customers">Customers</a>  
</p>
```

Then this new “**header.html**” can be included in other templates.

# Updated “company.html”

We include the “header.html” in the existing “company.html”:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Company App</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
  </head>
  <body>
    {% include 'header.html' %}
    <div class="container-fluid pt-1">
      <h1>Company Home Page</h1>
      <p>Hello, Welcome to <b>{{ company.companyname }}</b>.</p>
      <p>Email: {{ company.email }}</p>
      <p>Web: {{ company.website }}</p>
    </div>
  </body>
</html>
```



# Using variables

We can also send variables into the Template using the **with** keyword.

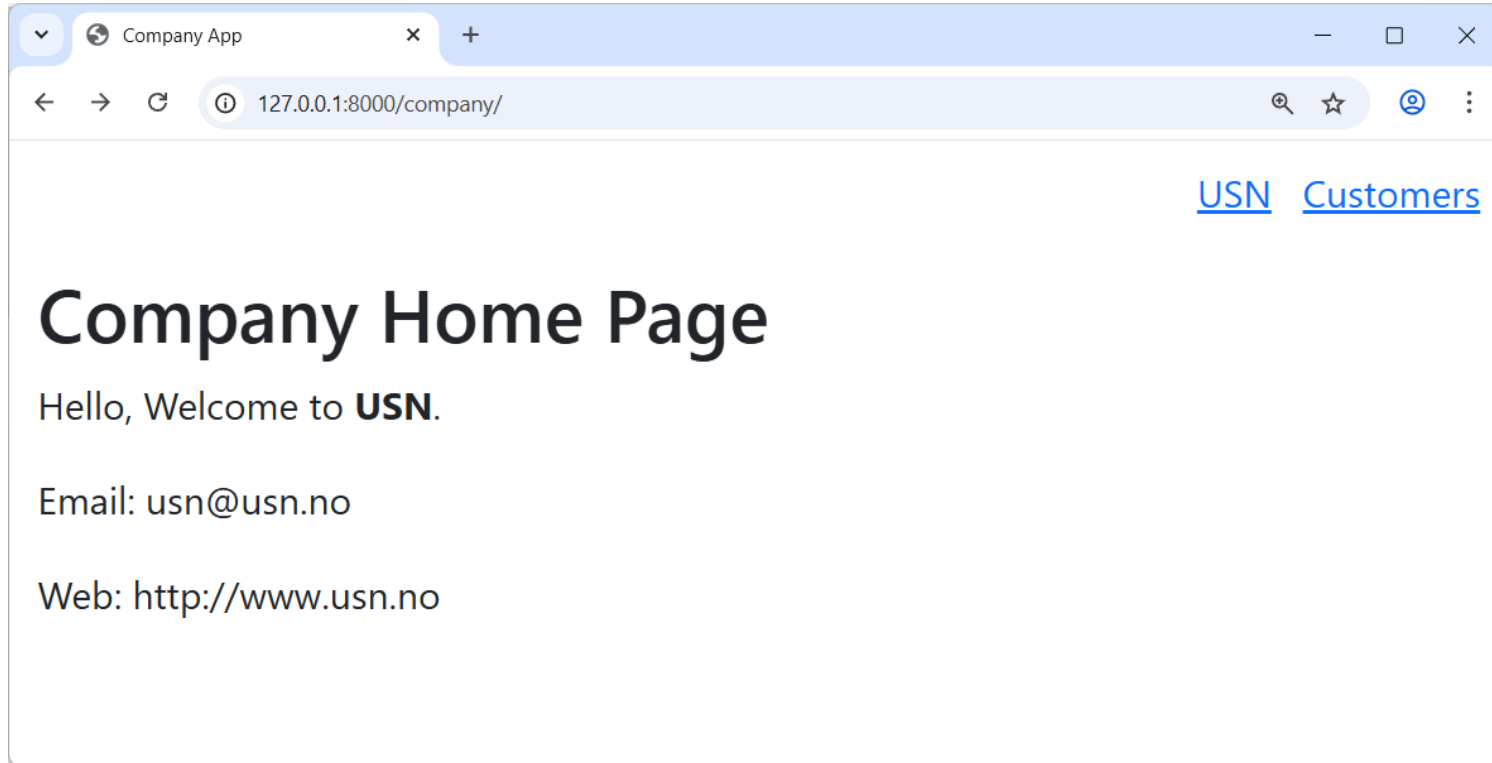
Here is the updated “**header.html**”:

```
<p style="text-align: right; padding-top: 10px; padding-right: 10px;">
  <a href="/company">{{ company }}</a>
  &nbsp;
  <a href="/customers">Customers</a>
</p>
```

Then we update the “**company.html**”:

```
<body>
  {% include "header.html" with company=company.companyname %}
  ..
```

# Results



If you also want a Footer, you can create a “footer.html” Template

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# Master Template



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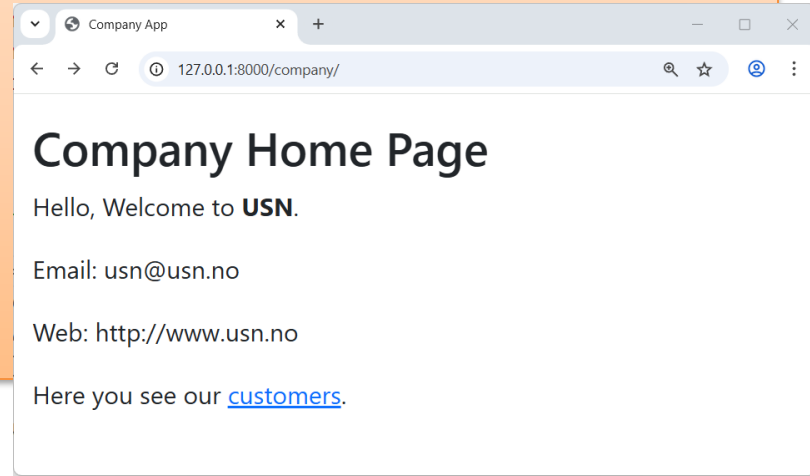
# Master Template

- Let's take the next step and create a Master Template that we can use in all others child templates
- In that way you don't need to repeat your self in all the other templates.
- We will use the Django **block** Tag and the **extends** Tag.

# Existing Template

Existing Template (“**company.html**”):

```
<!DOCTYPE html>
<html>
  <head>
    <title>Company App</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
  </head>
  <body>
    <div class="container-fluid pt-3">
      <h1>Company Home Page</h1>
      <p>Hello, Welcome to <b>{{ company.companyname }}</b>.</p>
      <p>Email: {{ company.email }}</p>
      <p>Web: {{ company.website }}</p>
      <p>Here you see our <a href="/customers">customers</a>.</p>
    </div>
  </body>
</html>
```



# Create a New Master Template

We create a new Template called, e.g., “**master.html**” :

```
<!DOCTYPE html>
<html>
<head>
<title>Company App - {% block title %} {% endblock %}</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</head>

<body>

<div class="container-fluid pt-1">
{% block content %}
{% endblock %}
</div>

</body>

</html>
```

# Updated “company.html”

Then we can use the Master Template in other Templates, e.g., in “company.html”:

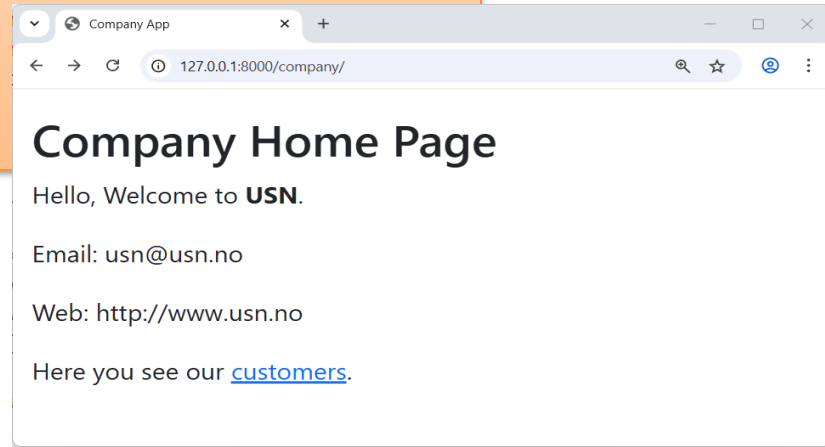
```
{% extends "master.html" %}

{% block title %} Home {% endblock %}

{% block content %}
<h1>Company Home Page</h1>
<p>Hello, Welcome to <b>{{ company.companyname }}</b>.</p>
<p>Email: {{ company.email }}</p>
<p>Web: {{ company.website }}</p>
{% endblock %}
```

Basically, all the “boilerplate” code has been removed

The Webpage looks the same, but we have been putting all common parts in the Master Template



# Add a Header Section

We can also include a header section in the Master Template (“master.html”) as well:

```
<!DOCTYPE html>
<html>

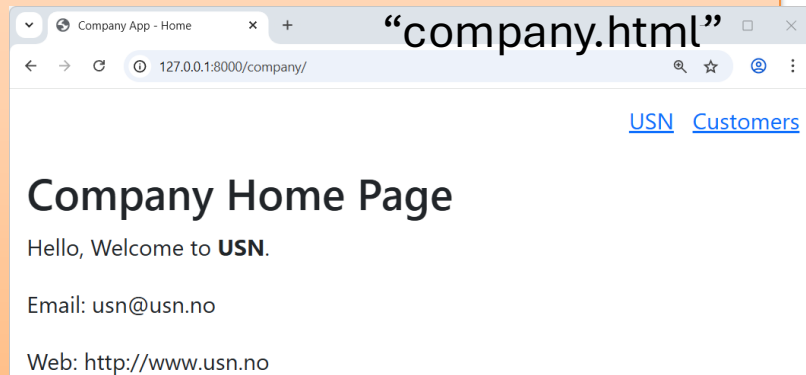
<head>
<title>Company App - {% block title %} {% endblock %}</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</head>

<body>

<p style="text-align: right; padding-top: 10px; padding-right: 10px;">
  <a href="/company">USN</a>
  &nbsp;
  <a href="/customers">Customers</a>
</p>

<div class="container-fluid pt-1">
  {% block content %}
  {% endblock %}
</div>

</body>
</html>
```



# Resources

- Django **include** Tag:  
[https://www.w3schools.com/django/django\\_tags\\_include.php](https://www.w3schools.com/django/django_tags_include.php)
- Django **block** Tag:  
[https://www.w3schools.com/django/ref\\_tags\\_block.php](https://www.w3schools.com/django/ref_tags_block.php)
- Django **extends** Tag:  
[https://www.w3schools.com/django/ref\\_tags\\_extends.php](https://www.w3schools.com/django/ref_tags_extends.php)

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