# 2. django template

## 2.1 template

context variable: create a variable called 'headline'.

url: s2/variable output: This is a headline.

```
<div class="container">
     <h1>{{ headline }}</h1>
</div>
```

```
def variable(request: HttpRequest):
    context = {
        'headline': 'This is a headline'
    }
    return render(request, 's2/variable.html', context=context)
```

condition: write a page called isitchristmas

url: s2/isitchristmas output: Yes or No

```
<div class="container">
    {% if ischristmas %}
        <h1>Happy Christmas !!!</h1>
    {% else %}
        <h1>NO</h1>
        {% endif %}
</div>
```

```
def isitchristmas(request):
    today = datetime.today()
    today = datetime(2018, 12, 25)
    context = {
        'ischristmas': (today.month == 12 and today.day == 25)
    }
    return render(request, 's2/isitchristmas.html', context=context)
```

loop: write a page to display three friends

url: s2/friends output: a table that contains first and last name of three friends

link: write two pages that link each other.

url: s2/page1 s2/page2

```
<h1>Page 2</h1>

<a class="btn btn-primary btn-lg" href="{% url 'page1' %}" role="button">Go to page1</a>
```

```
def page1(request):
    print("page1")
    return render(request, 's2/page1.html')
```

```
def page2(request):
    return render(request, 's2/page2.html')
```

## 2.2 layout

layout.html:

```
<!doctype html>
<html lang="en">
  <head>
   <title>Session 2</title>
   <!-- Required meta tags -->
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1,</pre>
shrink-to-fit=no">
   <!-- Bootstrap CSS -->
   <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.2/css/bootstrap.min.cs
s" integrity="sha384-
Smlep5jCw/wG7hdkwQ/Z5nLIefveQRIY9nfy6xoR1uRYBtpZgI6339F5dgvm/e9B"
crossorigin="anonymous">
  </head>
  <body>
     <nav class="navbar navbar-expand-lg navbar-light bg-light">
         <a class="navbar-brand" href="#">Session2</a>
         <button class="navbar-toggler hidden-lg-up" type="button" data-</pre>
toggle="collapse" data-target="#collapsibleNavId" aria-
controls="collapsibleNavId"
             aria-expanded="false" aria-label="Toggle navigation">
             <span class="navbar-toggler-icon"></span>
         </button>
         <div class="collapse navbar-collapse" id="collapsibleNavId">
             class="nav-item active">
                     <a class="nav-link" href="{% url 'home' %}">Home <span</pre>
class="sr-only">(current)</span></a>
                 class="nav-item">
                     <a class="nav-link" href="{% url 'page1' %}">Page1</a>
                 </div>
     </nav>
     <div class="container">
         {% block content %}
         {% endblock content %}
```

```
</div>
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
integrity="sha384-
q8i/X+965Dz00rT7abK41JStQIAqVqRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.j
s" integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.2/js/bootstrap.min.js"
integrity="sha384-
o+RDsa0aLu++PJvFqy8fFScvbHFLtbvScb8AjopnFD+iEQ7wo/CG0xlczd+20/em"
crossorigin="anonymous"></script>
  </body>
</html>
```

#### home.html

```
{% extends 's2/layout.html' %}

{% block content %}
    <h1>Home page</h1>
{% endblock content %}
```

#### page1.html

```
{% extends 's2/layout.html' %}

{% block content %}
    <h1>Page1</h1>
{% endblock content %}
```

s2.views: write view functions for home and page1

```
def home(request: HttpRequest):
    return render(request, 's2/home.html')
```

```
def page1(request: HttpRequest):
    return render(request, 's2/page1.html')
```

s2.urls: write a url mapping

## 2.3 post

note: write a page that display a list of notes and a form for a new note.

url: s2/notes

```
notes = []
def note(request: HttpRequest):

if request.method == "POST":
    note = request.POST.get('note')
    notes.append(note)

context = { 'notes': notes }
    return render(request, 's2/notes.html', context=context)
```

### 2.3 courses

```
<h1>Courses</h1>
   <thead>
           Subject
              State Date
              Instructor
           </thead>
       {% for course in courses %}
              {{ course.subject }} 
                   {{ course.startDate }} 
                  {{ course.instructor }} 
              {% endfor %}
       <hr>
   <h1>Add new course</h1>
   <form action="{% url 'course' %}" method="post">
       <div class="container">
           <form>
              {% csrf_token %}
              <div class="form-group row">
                  <label for="inputName" class="col-sm-3 col-form-</pre>
label">Subject</label>
                  <div class="col-sm-9">
                      <input type="text" class="form-control"</pre>
name="subject" id="txtSubject" placeholder="Subject" required>
                  </div>
              </div>
              <div class="form-group row">
                  <label for="inputName" class="col-sm-3 col-form-</pre>
label">Start Date</label>
                  <div class="col-sm-9">
                      <input type="text" class="form-control"</pre>
name="startDate" id="txtStartDate" placeholder="Start Date">
                  </div>
              </div>
              <div class="form-group row">
                  <label for="inputName" class="col-sm-3 col-form-</pre>
label">Instructor</label>
                  <div class="col-sm-9">
```

```
courses = []
def course(request: HttpRequest):

if request.method == 'POST':
    subject = request.POST.get('subject')
    startDate = request.POST.get('startDate')
    instructor = request.POST.get('instructor')

course = {
        'subject': subject,
        'startDate': startDate,
        'instructor': instructor
}
    courses.append(course)

context={ 'courses': courses}
    return render(request, 's1/course.html', context=context)
```