

Template Variables

Templates

- A template contains the static parts of the desired HTML output as well as some special syntax describing how dynamic content will be inserted.
- Jinja2 is used as template engine in Django.
- Jinja2 is one of the most used template engines for python.
- A django template is a string of text that is intended to separate the presentation of a document from its data.
- A template defines placeholders and various bits of basic logic (template tags) that regulate how the document should be displayed
- We want to insert dynamic content from view function to template file.
 - Template Variables
 - Template Tags
 - Template Filter

Template Variables

- Template variables can be used in html file using `{{ variable here }}`

How to use template variables?

- In order to understand how to use template variables, we are going to make few changes in our previous example.
- Modify views.py of exam application. Define showTest function again by creating variables and sending data to template while rendering it.

```
from django.shortcuts import render

def showTest(request):
    que="Who developed C language?"
    a="Ken Thompson"
    b="Dennis Ritchie"
    c="Bjarne Stroustrup"
    d="James Gosling"
    data={'que':que, 'a':a, 'b':b, 'c':c, 'd':d}
    res=render(request, 'exam/test.html', context=data)
    return res
```

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Images

- Put image file in static/images folder
 - Lightblue.png

CSS file

- Create a css file in static/css folder
 - Teststyle.css

```
body{
background-image:url('../images/lightblue.png');
margin:0 0 80px 80px;
}
.heading{
    color:white;
    background-color:navy;
    width:100%;
}
.heading h1{
    padding:10px;
}
.questionblock {
    background-color:white;
    border-style:solid;
    border-color:navy;
    padding:20px;
    width:60%;
}
.que{
    font-size:20px;
    color:navy;
    font-weight:bold;
}
.options{
    color:blue;
    margin-left:20px;
}
.submit input{
    width:200px;
    margin:10px;
}
```

HTML File

- In template/exam
 - Test.html

```
<!DOCTYPE html>
{% load staticfiles %}
<html lang="en">
<head>
    <meta charset="UTF-8">
    <link rel="stylesheet" href="{%static 'css/teststyle.css' %}" >
    <title>Test</title>
. </head>

<body>
    <div class="heading">
        <h1>Hello, Guest</h1>
    </div>
    <div class="questionblock">
        <div class="que">
            <p>{{ que }}</p>
        </div>
        <div class="options">
            <input type="radio" name="answer"><span>{{ a }}</span>
        </div>
        <div class="options">
            <input type="radio" name="answer"><span>{{ b }}</span>
        </div>
        <div class="options">
            <input type="radio" name="answer"><span>{{ c }}</span>
        </div>
        <div class="options">
            <input type="radio" name="answer"><span>{{ d }}</span>
        </div>
        <div class="submit">
            <input type="submit" value="Submit">
        </div>
    </div>
. </body>
```

Set Urls

- In firstproject/firstproject/urls.py
 - `url('exam',include('exam.urls'))`,
- In firstproject/exam/urls.py

```
from django.conf.urls import url
from exam import views
urlpatterns=[
    url('test',views.showTest),
. ]
```

Runserver

- Python manage.py runserver

Send Request

- Localhost:8000/exam/test