**Django Templates:**

M        -->Model

V        -->View

T        -->Template

**Template Tags:**

-->From python views.py we can inject dynamic content to the template file by using template tags.

-->Template tags also known as Template variables.

-->Take special care about template tag syntax it is not python syntax and not HTML syntax it is a Django syntax.

**Template tag syntax for inserting text data:{{insert_data}}**

-->This template tag we have to place inside template file(i.e html file) and we have to provide insert_data value form the python views.py file.

**Send date and time from views.py to template file**

- **wish.html**

  <body>

  <h1>Welcome to Django Template Demo</h1>

  <h2>Now server time is:{{insert_date}}</h2>

</body>

- **views.py**

import datetime

def wish(request):

   date = datetime.datetime.now()

   my_dict = {"insert_date":date}

return render(request,'testapp/wish.html',context=my_dict)

**Note:**

The values to the template variables should be passed from the views in the form of dictionary as argument to context. context is an optional

return render(request,'testapp/wish.html',my_dict)

-->We can pass directly dict to render function:

return render(request,'testapp/wish.html',{"insert_date":date})

**To display student info:**

- **views.py**

name = 'Sunny'

rollno = 101

marks = 98

my_dict = {"insert_date":date,'name':name,'rollno':rollno,'marks':marks}

- **wish.html**

    <ol>

   <li>Name:{{name}}</li>

   <li>Roll No:{{rollno}}</li>

   <li>Marks:{{marks}}</li>

   </ol>

**Application:**

**End User:**

Hello Friend, The current server time is:date and time

Course Information:

Name:Django

Prerequisite:Python

Current Batch Students are:

D:\Django_20MAR_7PM>django-admin startproject templateproject2

D:\Django_20MAR_7PM>cd templateproject2

D:\Django_20MAR_7PM\templateproject2>py manage.py startapp testapp

**-->Add app in settings.py**

- **views.py**

```
import datetime
def info_view(request):
    time = datetime.datetime.now()
    name = 'Django'
    prerequisite = 'Python'
    my_dict = {'time':time,'name':name,'prerequisite':prerequisite}
    return render(request,'testapp/results.html',my_dict)
```

-->Create templates folder in main project folder. Add TEMPLATE_DIR in settings.py.

**results.html**

```html
<body>
    <h1>Hello Friend, The server time is:{{time}}</h1>
    <h2>Course Name:{{name}}</h2>
    <h2>prerequisite:{{prerequisite}}</h2>
    <ul>
     <li>Good to get job very easily</li>
     <li>Learning is also very easy</li>
```

```html
    <li>You can claim 3 to 4 years of exp</li>
    <li>It is very helpful for freshers</li>
  </ul>
  <table border="3">
   <thead>
     <th>S.No</th>
     <th>Name</th>
     <th>Feedback</th>
   </thead>
   <tr>
     <td>101</td>
     <td>Sunny</td>
     <td>Good</td>
   </tr>
   </table>
 </body>
```

## Astrology Project:

D:\Django_20MAR_7PM>django-admin startproject astrologyproject

D:\Django_20MAR_7PM>cd astrologyproject

D:\Django_20MAR_7PM\astrologyproject>py manage.py startapp testapp

Add app in settings.py

- **views.py**

```python
import datetime,random
def result_view(request):
  msg_list = [
```

```python
        'The golden days a head',

        'Better to sleep more time even in class also',

        'Tomorrow will be the best day of your life',

        'Tomorrow is the perfect day to propose your GF',

        'Very soon you will get the job'

        ]

    names_list = ['sunny', 'kareena','samantha','samyuktha','radhika']

    time = datetime.datetime.now()

    h = int(time.strftime('%H'))

    if h < 12:

        s = 'Good Morning'

    elif h < 16:

        s = 'Good Afternoon'

    elif h < 21:

        s = 'Good Evening'

    else:

        s = 'Good Night'

    name = random.choice(names_list)

    msg = random.choice(msg_list)

    my_dict = {'time':time,'name':name,'msg':msg,'wish':s}

    return render(request,'testapp/astro.html',my_dict)
```

- **urls.py**

```python
path('astr/', views.result_view),
```

**astro.html**

```html
<body>

    <h1>Hello Friend, <span>{{wish}}</span></h1>
```

```html
<h2>Now The Server Time Is:<span>{{time}}</span></h2>

<h1>Astrology Info For Prasad:<span>{{msg}}</span></h1>

<h2>Very soon, you are going to get marriage with:<span>{{name}}</span></h2>

</body>
```