

1. Create project and application

```
>django-admin startproject news  
  
>cd news  
  
\news>python manage.py startapp newsapp
```

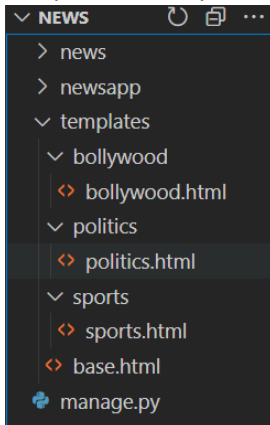
2. Register application in settings.py

3. Create templates folder

4. Register templates folder

5. Create following folder and files in templates folder

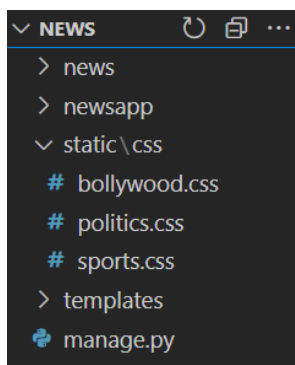
- a. templates > base.html
- b. templates > politics > politics.html
- c. templates > sports > sports.html
- d. templates > bollywood > bollywood.html



6. create static folder and register it in settings.py

```
settings.py X  
news > settings.py > ...  
119 STATIC_URL = 'static/'  
120 STATICFILES_DIRS=[BASE_DIR/'static']  
121
```

7. create static > css > politics.css, sports.css, bollywood.css



8. create view to display base.html as home page

```
views.py X  
newsapp > views.py > ...  
1 from django.shortcuts import render  
2  
3 # Create your views here.  
4 def show_base(request):  
5     return render(request, 'base.html')  
6
```

9. create news_urls.py in newsapp folder to create application level url

```
newsapp > news_urls.py > ...
1  from django.urls import path
2  from newsapp import views
3
4  urlpatterns = [
5      path('home/', views.show_base),
6  ]
```

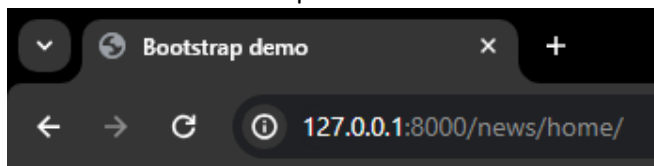
10. include above news_urls.py in urls.py

```
news > urls.py > ...
17  from django.contrib import admin
18  from django.urls import path, include
19
20  urlpatterns = [
21      path('admin/', admin.site.urls),
22      path('news/', include('newsapp.news_urls')),
23  ]
```

11. add basic code of bootstrap into base.html

```
templates > base.html > ...
1  <!doctype html>
2  <html lang="en">
3      <head>
4          <meta charset="utf-8">
5          <meta name="viewport" content="width=device-width, initial-scale=1">
6          <title>Bootstrap demo</title>
7          <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
8      </head>
9      <body>
10         <h1>Hello, Base!</h1>
11         <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js" rel="script">
12     </body>
13 </html>
```

12. runserver and check output



Hello, Base!

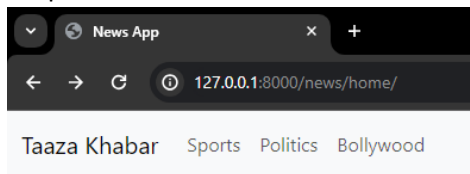
13. add navbar code from bootstrap to base.html

```

<body>
  <nav class="navbar navbar-expand-lg bg-body-tertiary">
    <div class="container-fluid">
      <a class="navbar-brand" href="#">Taaza Khabar</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportContent" data-bs-collapse="true">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarSupportContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">
          <li class="nav-item">
            <a class="nav-link" href="#">Sports</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Politics</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Bollywood</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</body>

```

14. output



15. showing sports news on clicking sports from navbar

- add <h1>Welcome to sports news</h1> to the body of sports.html
- create view to show sports.html

```

views.py
newsapp > views.py > ...
6
7 def sports_news(request):
8     return render(request, 'sports/sports.html')
9

```

- create url for above view in news_urls.py

```

urlpatterns = [
    path('home/', views.show_base),
    path('sports/', views.sports_news),
]

```

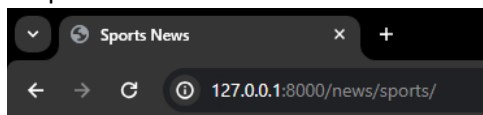
- add above url in navbar of base.html

```

<li class="nav-item">
  <a class="nav-link" href="/news/sports">Sports</a>
</li>

```

- output



Welcome to sports news

16. Template inheritance example :

- a. Create 2 blocks in base.html (you can create as many as you want)

```
base.html X
templates > base.html > html > head
1 <!doctype html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>News App</title>
7     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet">
8     <!-- block to add stylesheets -->
9     {% block stylesheet_block %}
10
11   {% endblock stylesheet_block %}
12   </head>
13   <body>
14     <nav class="navbar navbar-expand-lg bg-white" -->
15     </nav>
16
17     <!-- block to show body -->
18     {% block body_block %}
19
20   {% endblock body_block %}
21     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js" -->
22     </script>
23   </body>
24 </html>
```

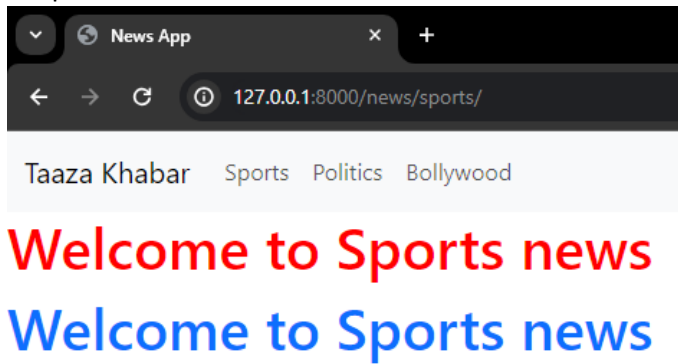
- b. Update sports.html by adding code inside block

```
sports.html X
templates > sports > sports.html
1 <!doctype html>
2 {% extends 'base.html' %}
3
4 {% load static %}
5
6 {% block stylesheet_block %}
7   <link rel="stylesheet" href="{% static 'css/sports.css' %}">
8 {% endblock stylesheet_block %}
9
10 {% block body_block %}
11   <h1>Welcome to Sports news</h1>
12   <h1 class="text-primary">Welcome to Sports news</h1>
13 {% endblock body_block %}
```

- c. Code for sports.css

```
# sports.css X
static > css > # sports.css > h1
1 h1
2 {
3   color: red;
4 }
```

d. Output



17. DIY for politics and Bollywood

18. Filters in django template

Find more django template filters : <https://www.geeksforgeeks.org/django-template-filters/>

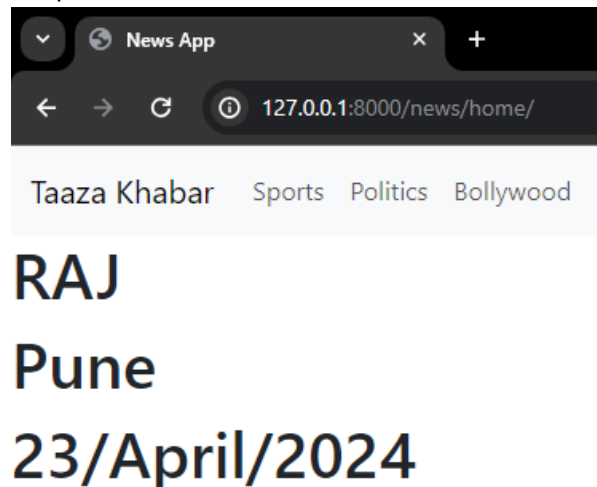
Create employee and pass it to the base.html

```
views.py X
newsapp > views.py > ...
1 from django.shortcuts import render
2
3 # Create your views here.
4 import datetime
5 def show_base(request):
6     employee = {"id": "TCS-1", "name": "raj", "city": "pune", "dob": datetime.datetime.now()}
7     return render(request, 'base.html', context=employee)
```

Display employee details in base.html using django's template filters

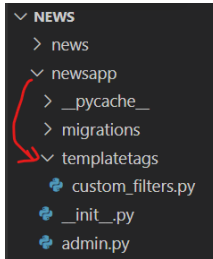
```
> <nav class="navbar navbar-expand-lg bg-body-tertiary">...
  </nav>
  <!-- using djanggo template filters -->
  <h1> {{name|upper}}</h1>
  <h1> {{city|title}}</h1>
  <h1> {{dob|date:"d/F/Y"}}</h1>
```

Output :



19. Creating custom template filters

- a. Inside your application's folder create templatetags folder (name must be same) and Create custom_filter.py file inside templatetags folder



- b. Add following code in it

```
custom_filters.py X
newsapp > templatetags > custom_filters.py > dash_to_colon
1 from django import template
2 register=template.Library()
3
4 @register.filter(name="dash_to_colon")
5 def dash_to_colon(value):
6     new_value = value.replace("-", ":")
7     return new_value
```

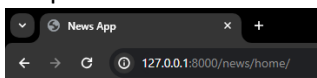
- c. Use our custom filter in template as –

```
<nav class="navbar navbar-expand-lg bg-body-tertiary">...
</nav>

<!-- using djanggo template filters -->
<h1> {{name|upper}}</h1>
<h1> {{city|title}}</h1>
<h1> {{dob|date:"d/F/Y"}}</h1>

<!-- using djanggo custom template filters -->
{% load custom_filters %}
<h1> {{id|dash_to_colon}}</h1>
```

- d. Output



RAJ

Pune

23/April/2024

TCS:1

20. DONE !!!!