**Mar 28**

- **views.py**

```
def sports_view(request):
    head_msg = 'Sports Information'
    sub_msg1 = 'Yesterday IPL match won by SRH'
    sub_msg2 = 'Today match b/w RR & DC'
    sub_msg3 = 'Who will win IPL cup???????????'
    type = 'sports'
    my_dict = {'head_msg':head_msg,'sub_msg1':sub_msg1,
'sub_msg2':sub_msg2,'sub_msg3':sub_msg3,'type':type}
    return render(request,'testapp/news.html',my_dict)


def politics_view(request):
    head_msg = 'Politics Information'
    sub_msg1 = 'Telangana CM was revanth reddy'
    sub_msg2 = 'India PM was Modi'
    sub_msg3 = 'Who is upcoming CM for AP????????????'
    type = 'politics'
    my_dict = {'head_msg':head_msg,'sub_msg1':sub_msg1,
'sub_msg2':sub_msg2,'sub_msg3':sub_msg3,'type':type}
    return render(request,'testapp/news.html',my_dict)
```

- **news.html**

```
<body>
    <h1>{{head_msg}}</h1>
    <ul>
      <li>{{sub_msg1}}</li>
```

```
    <li>{{sub_msg2}}</li>
    <li>{{sub_msg3}}</li>
  </ul>
  {% if type == 'movies' %}
  <img src="{% static 'images/1.jpg' %}" alt="">
  <img src="{% static 'images/2.jpg' %}" alt="">
  <img src="{% static 'images/3.jpg' %}" alt="">
  {% elif type == 'sports' %}
  <img src="{% static 'images/4.jpg' %}" alt="">
  <img src="{% static 'images/5.jpg' %}" alt="">
  <img src="{% static 'images/6.jpg' %}" alt="">
  {% elif type == 'politics' %}
  <img src="{% static 'images/7.jpg' %}" alt="">
  <img src="{% static 'images/8.jpg' %}" alt="">
  <img src="{% static 'images/9.jpg' %}" alt="">
  {% endif %}
 </body>
```

**Working with Models and Databases:**

-->As part of web application development, compulsory we required to interact with database to store our data and to retrieve our stored data.

-->Django provied a in-built support for database operations. Django provides in-built database sqlite3.

-->For small to medium applications this database is more enough. Django can provide support for other DB also like Oracle,Mysql,MongoDb.....

**Database Configurations:**

-->If we want to use default DB(sqlite3) then we are not required to do any configuration.

-->The default sqlite3 configurations in settings.py file are declared as:

```
DATABASES = {
   'default': {
      'ENGINE': 'django.db.backends.sqlite3',
      'NAME': BASE_DIR / 'db.sqlite3',
   }
}
```

**Database connection with Mysql:**

```
DATABASES = {
   'default': {
      'ENGINE': 'django.db.backends.mysql',
      'NAME': 'djangodb',
                'USER': 'root',
                'PASSWORD': 'root',
                'HOST': 'localhost',
                'PORT': 3306,
   }
}
```

```
SQL> select * from global_name;
```

**Database connection with Oracle:**

```
DATABASES = {
   'default': {
```

```
    'ENGINE': 'django.db.backends.oracle',
    'NAME': 'ORCL',
            'USER': 'scott',
            'PASSWORD': 'tiger',
            'HOST': 'localhost',
            'PORT': 1521,
  }
}
```

-->If we dont want to sqlite3 database then we have to configure our own database with the following parameters.

1).ENGINE:Name of the database engine

2).NAME:Database name

3).USER:Database login user name

4).PASSWORD:Database login password

5).HOST:The machine on which database server is running

6).PORT:The port number on which database server is running

**Note:** Most the times HOST and PORT are optional.

**How to check Django database connection:**

-->We can check whether django database configurations are properly configured or not by using the command in shell.

D:\Django_20MAR_7PM\sunnynewproject>py manage.py shell

```
>>>from django.db import connection
>>>c = connection.cursor()
```

-->If we are not getting any error means our database configurations are proper.

**Model Class:**

-->A model is a python class which contains database information.

-->It contains fields and behaviours of the data what we are storing.

-->Each model maps to one database table.

-->Every model is a python class which is the child class of

(django.db.models.Model)

-->Each attribute of the model represents database field(Column name in table).

-->We have to write all model classes inside 'models.py' file.