### **Working with Model Forms:**

```
Model Form-->Model based form
```

```
name = form.cleaned_data['name']
marks = form.cleaned_data['marks']
```

records = Student.get\_or\_create(name=name,marks=marks)

10-->fields are there 100 fields

Model based form only one line form.save()

- --->Sometimes we can create form based on Model, such type of forms are called as Model Based Forms or Model Forms.
- -->The main advantage of model forms is we can grab the end user input data and we can save that data very easily in the database.

```
form.save()
form.save(commit=True)
```

## How to develop model based forms:

**1).**While developing form class, we have to inherit from forms.ModelForm class instead of forms.Form class

class RegistrationForm(forms.Form)--->Normal Form class RegistrationForm(forms.ModelForm)-->Model Form

**2).**class RegistrationForm(forms.ModelForm):

class Meta:

<u>Case-1:-</u> Instead of all fields, if we required particular fields.

```
class Meta:
    model = Student
    fields = ('field1','field2','field3')
```

<u>Case-2:-</u> Instead of all fields, if we want to exclude certain fields.

class Meta:

model = Student exclude = ['field1','field2']

### Ex:ModelFormProjct

D:\Django\_20MAR\_7PM>django-admin startproject ModelFormProject
D:\Django\_20MAR\_7PM>cd ModelFormProject
D:\Django\_20MAR\_7PM\ModelFormProject>py manage.py startapp testapp

-->Add app in settings.py

## models.py

```
class Student(models.Model):
  name = models.CharField(max_length=30)
  marks = models.IntegerField()
```

-->Makemigrations and migrate.

### admin.py

from testapp.models import Student
class StudentAdmin(admin.ModelAdmin):
 list\_display = ['name','marks']
admin.site.register(Student,StudentAdmin)

#### forms.py

```
from django import forms
from testapp.models import Student
class StudentForm(forms.ModelForm):
    name = forms.CharField()
    marks = forms.IntegerField()
    class Meta:
        model = Student
        field = ' all '
```

#### views.py

```
from testapp.forms import StudentForm
def student view(request):
  if request.method == 'POST':
    form = StudentForm(request.POST)
    if form.is valid():
      form.save(commit = True)
      print('Record inserted into DB successfully....')
  form = StudentForm()
  return render(request, 'testapp/studentform.html', {'form':form})

    studentform.html

<body>
  <div class="container" align='center'>
   <h1>Student Registration Form</h1>
   <form method="post">
    {{form.as p}}
    {% csrf token %}
    <input type="submit" class="btn btn-primary" name="" value="Register">
   </form>
  </div>
</body>
   urls.py
path('register/',views.student view)
   std1.css
body{
 background: yellow;
 color:red;
}
h1{
text-align: center;
}
Ex:MovieProject
D:\Django_20MAR_7PM>django-admin startproject MovieProject
D:\Django 20MAR 7PM>cd MovieProject
D:\Django 20MAR 7PM\MovieProject>py manage.py startapp testapp
-->Add app in settings.py
```

# models.py

```
class Movie(models.Model):
    rdate = models.DateField()
    moviename = models.CharField(max_length=20)
    hero = models.CharField(max_length=20)
    heroine = models.CharField(max_length=20)
    rating = models.FloatField()
```

-->makemigrations and migrate

### admin.py

from testapp.models import Movie class MovieAdmin(admin.ModelAdmin): list\_display = ['rdate','moviename','hero','heroine','rating'] admin.site.register(Movie,MovieAdmin)

## views.py

def index\_view(request):
 return render(request,'testapp/index.html')

#### urls.py

path(",views.index view)

#### • index.html

```
<br/>
<body>
<div class="container" align='center'>
<h1>Sunny Movies......</h1>
Upto date movie information
<a href="#" class="btn btn-primary">ADD</a>
<a href="#" class="btn btn-primary">List Movies</a>
</div>
</body>
```