DJANGO TASK 4

1. Create a new Django project

Library Project crated

2. Create an app

Librart_app crated

3. Create two models and then add items (using admin panel or shell)

Model.py

```
from django.db import models

# Create your models here.

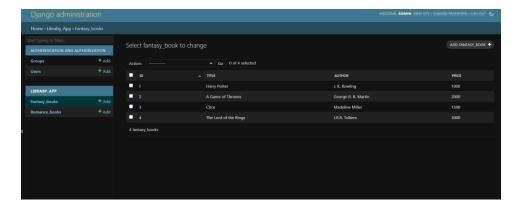
class fantasy_book(models.Model):
    title = models.CharField(max_length=100)
    author = models.CharField(max_length=100)
    price = models.IntegerField()

class Meta:
    ordering = ['id']

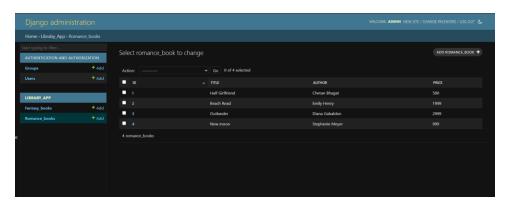
class romance_book(models.Model):
    title = models.CharField(max_length=100)
    author = models.CharField(max_length=100)
    price = models.IntegerField()

class Meta:
    ordering = ['id']
```

Model 1 with data



Model 2 with data



4. Create list view using function-based view to show list of items from the first model View.py

```
from django.views.generic import ListView,DetailView
from django.shortcuts import render
from .models import fantasy_book,romance_book
# Create your views here.

# list view using function based view

def function_list(request):
    fun_list=fantasy_book.objects.all()
    return render(request,'index.html',{"data":fun_list})
```

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <h3>List view using Function based view</h3>
   {% for i in data %}
       Book Name : {{i.title}}
       Author : {{i.author}}
       Price: {{i.price}}
   {% endfor %}
</body>
</html>
```

Output

```
← → C ① 127.0.0.1:8000
```

List view using Function

Book Name : Harry PotterAuthor : J. K. Rowling

• Price: 1000

Book Name : A Game of ThronesAuthor : George R. R. Martin

• Price: 2000

• Book Name : Circe

• Author: Madeline Miller

• Price: 1500

• Book Name : The Lord of the Rings

• Author: J.R.R. Tolkien

• Price: 3000

5. Create list view using class-based view to show list of items from the second model

View.py

```
from django.views.generic import ListView,DetailView
from django.shortcuts import render
from .models import fantasy_book,romance_book

# Create your views here.

# list view using class based view
class class_list(ListView):
    model = romance_book
    template_name = 'home.html'
    context_object_name = 'book_list'
```

Home.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <h3>List view using Class based view </h3>
   {% for i in book_list %}
       Book Name : {{i.title}}
       Author : {{i.author}}
       Price: {{i.price}}
   {% endfor %}
</body>
</html>
```

Output



List view using Class based view

Book Name : Half GirlfriendAuthor : Chetan Bhagat

• Price: 500

Book Name : Beach ReadAuthor : Emily Henry

• Price: 1999

Book Name : OutlanderAuthor : Diana Gabaldon

• Price: 2999

Book Name : New moonAuthor : Stephenie Meyer

• Price: 999

6. Create detail view using function-based view to show detail view of an item View.py

```
from django.views.generic import ListView,DetailView
from django.shortcuts import render
from .models import fantasy_book,romance_book
# Create your views here.

# detail view using function based view
def function_details(request,pk):
    fun_list=fantasy_book.objects.get(pk=pk)
    return render(request,'details.html',{"data":fun_list})
```

Details.html

```
<
```

Output



Detail view using function based view

• Book Name : The Lord of the Rings

• Author: J.R.R. Tolkien

• Price: 3000

7. Create detail view using class-based view to show detail view of an item

View.py

```
from django.views.generic import ListView,DetailView
from django.shortcuts import render
from .models import fantasy_book,romance_book
# Create your views here.

class Class_details(DetailView):
    model = romance_book
    template_name = 'class_details.html'
    context_object_name = 'book_list'
```

Class_details.html

Output



Detail view using class based view

Book Name : Beach ReadAuthor : Emily Henry

• Price: 1999

View.py

```
from django.views.generic import ListView,DetailView
from django.shortcuts import render
from .models import fantasy_book,romance_book
# Create your views here.

# list view using function based view

def function_list(request):
    fun_list=fantasy_book.objects.all()
    return render(request,'index.html',{"data":fun_list})

# list view using class based view
class class_list(ListView):
    model = romance_book
    template_name = 'home.html'
    context_object_name = 'book_list'

# detail view using function based view
def function_details(request,pk):
    fun_list=fantasy_book.objects.get(pk=pk)
    return render(request,'details.html',{"data":fun_list})

# detail view using class based view
class Class_details(DetailView):
    model = romance_book
    template_name = 'class_details.html'
    context_object_name = 'book_list'
```

App.urls.py

```
from django.urls import path
from .views import *

urlpatterns = [
    path('',function_list,name="function_list"),
    path('details/<int:pk>/',function_details,name='function_details'),

    path('class_list/',class_list.as_view()),
    path('classdetails/<int:pk>/',class_details.as_view(),name='Class_details'),

]
```