Assignment_04

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SE - 48

Steps-

- 1. Make project directory mkdir Library Management
- 2. Navigate to the directory *cd Library Management*
- 3. Install dependencies like pip install django djangorestframework
- 4. Start Django project django admin startproject Library Management
- 5. Create app inside project *python manage.py startapp library*
- 6. In Library_Management/settings.py append the new apps in INSTALLED_APPS
 INSTALLED_APPS = [....
 'rest_framework',
 'library',
 'api',
]

7. In *library/models.py*

```
from django.db import models

class Book(models.Model):
   title = models.CharField(max_length=200)
   isbn = models.CharField(max_length=13, unique=True)

def __str__(self):
    return self.title
```

8. Create a folder api

In api/serializers.py

```
from rest_framework import serializers
from library.models import Book

class BookSerializer(serializers.ModelSerializer):
    class Meta:
        model = Book
        fields = '__all__'
```

9. In library/views.py

```
from rest_framework import generics
from library.models import Book
from api.serializers import BookSerializer

class ListCreateAPIView(generics.ListCreateAPIView):
    queryset = Book.objects.all()
    serializer_class = BookSerializer

class RetrieveUpdateDestroyAPIView(generics.RetrieveUpdateDestroyAPIView):
    queryset = Book.objects.all()
    serializer_class = BookSerializer
```

10. In api/urls.py

```
#urls.py
from django.urls import path
from library.views import (ListCreateAPIView,RetrieveUpdateDestroyAPIView,)

urlpatterns = [
    path('', ListCreateAPIView.as_view(), name='book-list-create'),
    path('books/<int:pk>/', RetrieveUpdateDestroyAPIView.as_view(), name='book-detail'),
]
```

11. In library/urls.py

```
from django.urls import path
from library.views import BookListCreateView, BookDetailView

urlpatterns = [
    path('books/', BookListCreateView.as_view(), name='book-list-create'),
    path('books/<int:pk>/', BookDetailView.as_view(), name='book-detail'),
]
```

12. In Library_Management/urls.py

```
from django.contrib import admin
from django.urls import path, include
urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('api.urls')),
]
```

13. Make migrations

python manage.py makemigrations library python manage.py migrate

14. Finally run the server

python manage.py runserver

