**Experiment No. 12**

**Aim: Implement a web application using Django Framework and understand CRUD functionality.**

**Code:**

**urls.py (project)**

from django.contrib import admin

from django.urls import path,include

from api import views

urlpatterns = [

    path('studentAPI/',views.StudentListCreate.as\_view()),

  path('studentAPI/<int:pk>',views.StudentRetrieveUpdateDestroy.as\_view())

]

**Models.py**

from django.db import models

class Student(models.Model):

    name = models.CharField(max\_length=100)

    roll = models.IntegerField()

    city = models.CharField(max\_length=100)

**Serializer.py**

from rest\_framework import serializers

from .models import Student

class StudentSerializer(serializers.ModelSerializer):

    class Meta:

        model = Student

        fields = '\_\_all\_\_'

def validate\_name(self,value):

        if (all(chr.isalpha() or chr.isspace() for chr in value)):

            return value

        raise serializers.ValidationError(

            "Name must have alphabets only")

**Views.py**

from .models import Student

from .serializers import StudentSerializer

from rest\_framework.generics import ListCreateAPIView,RetrieveUpdateDestroyAPIView

class StudentListCreate(ListCreateAPIView):

    queryset = Student.objects.all()

    serializer\_class = StudentSerializer

class StudentRetrieveUpdateDestroy(RetrieveUpdateDestroyAPIView):

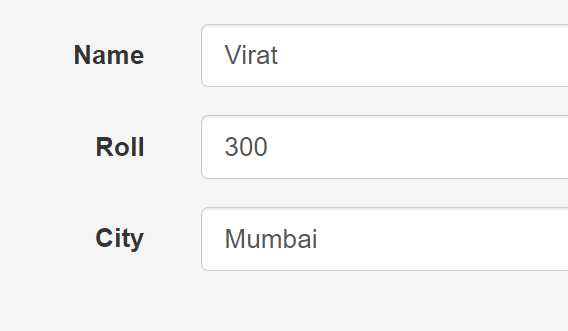
    queryset = Student.objects.all()

    serializer\_class = StudentSerializer

**Output:**

**Get Data**

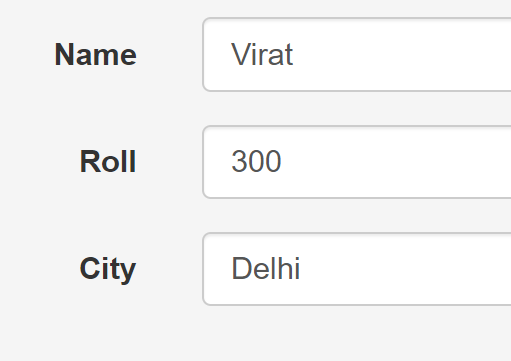
**Post Data**

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**New data after inserting**

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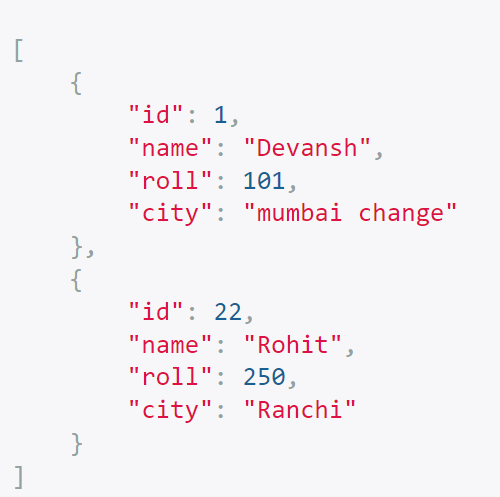
**Updating Existing Data**

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**New data after updation**

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**Deleting data with ID 25**

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