

# Class Based APIView

REST framework provides an APIView class, which subclasses Django's View class.

APIView classes are different from regular View classes in the following ways:

- Requests passed to the handler methods will be REST framework's Request instances, not Django's HttpRequest instances.
- Handler methods may return REST framework's Response, instead of Django's HttpResponse. The view will manage content negotiation and setting the correct renderer on the response.
- Any APIException exceptions will be caught and mediated into appropriate responses.
- Incoming requests will be authenticated and appropriate permission and/or throttle checks will be run before dispatching the request to the handler method.

# Class Based APIView

```
from rest_framework.views import APIView
class StudentAPI(APIView):
    def get(self, request, format=None):
        stu = Student.objects.all()
        serializer = StudentSerializer(stu, many=True)
        return Response(serializer.data)

    def post(self, request, format=None):
        serializer = StudentSerializer(data=request.data)
        if serializer.is_valid():
            serializer.save()
            return Response({'msg': 'Data Created' }, status=status.HTTP_201_CREATED)
        return Response(serializer.errors, status=status.HTTP_400_BAD_REQUEST)
```