

Concrete View Class

The following classes are the concrete generic views.

If you're using generic views this is normally the level you'll be working at unless you need heavily customized behavior.

The view classes can be imported from `rest_framework.generics`.

- `ListAPIView`
- `CreateAPIView`
- `RetrieveAPIView`
- `UpdateAPIView`
- `DestroyAPIView`
- `ListCreateAPIView`
- `RetrieveUpdateAPIView`
- `RetrieveDestroyAPIView`
- `RetrieveUpdateDestroyAPIView`

ListAPIView

It is used for read-only endpoints to represent a collection of model instances. It provides a get method handler.

Extends: GenericAPIView, ListModelMixin

```
from rest_framework.generics import ListAPIView
class StudentList(ListAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

CreateAPIView

It is used for create-only endpoints. It provides a post method handler.

Extends: GenericAPIView, CreateModelMixin

```
from rest_framework.generics import CreateAPIView
class StudentCreate(CreateAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

RetrieveAPIView

It is used for read-only endpoints to represent a single model instance. It provides a get method handler.

Extends: GenericAPIView, RetrieveModelMixin

```
from rest_framework.generics import RetrieveAPIView
class StudentRetrieve(RetrieveAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

UpdateAPIView

It is used for update-only endpoints for a single model instance. It provides put and patch method handlers.

Extends: GenericAPIView, UpdateModelMixin

```
from rest_framework.generics import UpdateAPIView  
class StudentUpdate(UpdateAPIView):  
    queryset = Student.objects.all()  
    serializer_class = StudentSerializer
```

DestroyAPIView

It is used for delete-only endpoints for a single model instance. It provides a delete method handler.

Extends: GenericAPIView, DestroyModelMixin

```
from rest_framework.generics import DestroyAPIView
class StudentDestroy(DestroyAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

ListCreateAPIView

It is used for read-write endpoints to represent a collection of model instances. It provides get and post method handlers.

Extends: GenericAPIView, ListModelMixin, CreateModelMixin

```
from rest_framework.generics import ListCreateAPIView
class StudentListCreate(ListCreateAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

RetrieveUpdateAPIView

It is used for read or update endpoints to represent a single model instance. It provides get, put and patch method handlers.

Extends: GenericAPIView, RetrieveModelMixin, UpdateModelMixin

```
from rest_framework.generics import RetrieveUpdateAPIView
class StudentRetrieveUpdate(RetrieveUpdateAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```


RetrieveDestroyAPIView

It is used for read or delete endpoints to represent a single model instance. It provides get and delete method handlers.

Extends: GenericAPIView, RetrieveModelMixin, DestroyModelMixin

```
from rest_framework.generics import RetrieveDestroyAPIView
class StudentRetrieveDestroy(RetrieveDestroyAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```

RetrieveUpdateDestroyAPIView

It is used for read-write-delete endpoints to represent a single model instance. It provides get, put, patch and delete method handlers.

Extends: GenericAPIView, RetrieveModelMixin, UpdateModelMixin, DestroyModelMixin

```
from rest_framework.generics import RetrieveUpdateDestroyAPIView
class StudentRetrieveUpdateDestroy(RetrieveUpdateDestroyAPIView):
    queryset = Student.objects.all()
    serializer_class = StudentSerializer
```