DRF Four Core View Types - Quick Guide

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Django REST Framework (DRF) Cheat Sheet
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Covers four core view styles: APIView, GenericAPIView, ViewSet, ModelViewSet.
Plus notes on routers, Swagger, hooks, and Python decorators.


--- 1. APIView ---
Base class. Override get(), post(), etc.
URL: path('posts/', PostApiView.as_view())
Manual Swagger needed.


--- 2. GenericAPIView (+ Mixins) ---
Add queryset, serializer_class, lookup_field.
Combine with ListModelMixin, etc.
URL: path('posts/', PostListCreate.as_view())


--- 3. ViewSet ---
Group actions list, retrieve, create, update, destroy.
Use routers OR as_view({'get':'list'})
No automatic Swagger unless added.


--- 4. ModelViewSet ---
Full CRUD out of the box.
Router:
    router = DefaultRouter()
    router.register('posts', PostViewSet)
Hooks: perform_create(), perform_update()


Common Attributes: queryset, serializer_class, lookup_field, permission_classes, parser_classes.


Python Decorators:
@classmethod  -> first arg cls, call on class.
@staticmethod -> no self/cls.
@property        -> attribute-like access.
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