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1. APIView - Low-Level Base Class
Example:
class HelloWorld(APIView):
def get(self, request):
return Response({"message": "Hello, world!"})
Output (GET /hello/):
{
"message": "Hello, world!"
}
2. Generic Views
a. CreateAPIView
POST /items/create/
Request:
{
"name": "Pen",
"price": 10
}
Response:
{
"id": 1,
"name": "Pen",
"price": 10
```

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}
b. RetrieveAPIView
GET /items/1/
Response:
"id": 1,
"name": "Pen",
"price": 10
}
c. ListAPIView
GET /items/
[
{"id": 1, "name": "Pen", "price": 10},
{"id": 2, "name": "Pencil", "price": 5}
]
d. UpdateAPIView
PUT /items/1/
Request:
{
"name": "Pen",
"price": 12
}
Response:
```

{

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"id": 1,
"name": "Pen",
"price": 12
}
e. DestroyAPIView
DELETE /items/1/
Response: 204 No Content
3. Combo Generic Views
a. ListCreateAPIView - GET/POST /items/
b. RetrieveUpdateDestroyAPIView - GET/PUT/PATCH/DELETE /items/<id>/
4. ViewSets
a. ModelViewSet - All CRUD operations at /items/ via routers
b. ReadOnlyModelViewSet - Only GET (list/retrieve)
5. Mixins + GenericAPIView
class ItemCustomView(...):
def get(self, request): return self.list(request)
def post(self, request): return self.create(request)
6. Function-Based View with @api_view
@api_view(['GET'])
def simple_view(request):
return Response({"msg": "Hi from FBV"})
```

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GET /simple/
Response:
{
"msg": "Hi from FBV"
}
```