# Top 100 Django and Django REST Framework Interview Questions for 2025

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# Introduction

This document provides 100 Django and Django REST Framework (DRF) interview questions with answers and code examples, designed for 2025 technical interviews. Organized into four sections, it covers beginner to advanced topics for developers preparing for web development and API design roles. Each question includes a practical code snippet to illustrate the concept.

# 1 Django Basics

# 1. What is Django, and what are its key features?

Answer: Django is a Python web framework for rapid development, emphasizing security and scalability. Key features include ORM, admin interface, URL routing, and authentication.

```
# settings.py
INSTALLED_APPS = ['django.contrib.admin',
    'django.contrib.auth']
```

# 2. How do you start a Django project?

Answer: Use django-admin startproject to create a project directory.

```
django-admin startproject myproject
```

# 3. What is the role of manage.py?

Answer: manage.py executes administrative tasks like running servers or migrations.

```
python manage.py runserver
```

### 4. How do you create a Django app?

Answer: Run python manage.py startapp <app\_name> to create an app directory, then add the app to INSTALLED\_APPS in settings.py.

```
# Command to create a Django app
python manage.py startapp myapp
```

```
# settings.py
INSTALLED_APPS = [
'myapp',
]
```

# 5. What is a Django model?

Answer: A model is a Python class defining database structure and behavior.

```
# models.py
from django.db import models
class Post(models.Model):
    title = models.CharField(max_length=200)
```

# 6. How do you apply migrations in Django?

Answer: Use makemigrations and migrate to update the database schema.

```
python manage.py makemigrations
python manage.py migrate
```

# 7. What is the Django Admin Interface?

Answer: A web-based tool for managing model data, configured in admin.py.

```
# admin.py
from django.contrib import admin
from .models import Post
admin.site.register(Post)
```

# 8. How do you define URLs in Django?

Answer: Use path() in urls.py to map URLs to views.

### 9. What is a Django view?

Answer: A view processes HTTP requests and returns responses.

```
# views.py
from django.http import HttpResponse
def post_list(request):
    return HttpResponse("Post list")
```

# 10. How do you render templates in Django?

Answer: Use render() to combine templates with context data.

```
# views.py
from django.shortcuts import render
def home(request):
    return render(request, 'home.html', {'title': 'Home'})
```

# 11. How do you configure templates in Django?

Answer: Set TEMPLATES['DIRS'] in settings.py to locate template files.

```
# settings.py
TEMPLATES = [{'BACKEND':
    'django.template.backends.django.DjangoTemplates', 'DIRS':
    ['templates']}]
```

# 12. How do you handle static files in Django?

Answer: Configure STATIC\_URL and STATICFILES\_DIRS in settings.py, use % static % in templates, and run collectstatic for production.

```
# settings.py
STATIC_URL = '/static/'
STATICFILES_DIRS = ['static']
STATIC_ROOT = 'staticfiles'

# Run in terminal
python manage.py collectstatic
```

# 13. What is Django's CSRF protection?

Answer: CSRF tokens prevent cross-site request forgery in forms.

### 14. How do you create a superuser in Django?

Answer: Use createsuperuser to create an admin user.

```
python manage.py createsuperuser
```

### 15. What is a Django QuerySet?

Answer: A QuerySet is a lazily evaluated collection of database queries.

```
# views.py
from .models import Post
posts = Post.objects.all()
```

# 16. How do you filter QuerySets in Django?

Answer: Use filter() to query objects based on conditions.

```
posts = Post.objects.filter(published=True)
```

# 17. What is the exclude() method?

Answer: exclude() filters out objects matching criteria.

```
posts = Post.objects.exclude(published=False)
```

# 18. How do you order QuerySets?

Answer: Use order\_by() to sort QuerySets, with - for descending order.

```
# views.py
from .models import Post
posts = Post.objects.order_by('-created_at')
```

# 19. What is the get() method?

Answer: get() retrieves a single object or raises an exception.

```
post = Post.objects.get(id=1)
```

# 20. How do you create a Django form?

Answer: Define a form class and render it in a template.

```
# forms.py
from django import forms
class PostForm(forms.Form):
    title = forms.CharField(max_length=200)
```

# 21. What are Django template tags?

Answer: Tags provide logic in templates, like loops or conditionals.

# 22. How do you handle POST requests in Django?

Answer: Check request.method and process request.POST.

# 23. What is Django's authentication system?

Answer: It manages users, permissions, and sessions via django.contrib.auth.

```
# views.py
from django.contrib.auth import login
def login_view(request):
    login(request, user)
```

# 24. How do you redirect in Django?

Answer: Use redirect() to navigate to another URL.

```
# views.py
from django.shortcuts import redirect
def my_view(request):
    return redirect('home')
```

# 25. What is the DEBUG setting?

Answer: DEBUG=True shows detailed errors; set to False in production.

```
# settings.py
DEBUG = False
```

# 2 Django Intermediate

# 1. What is a Django model manager?

Answer: A manager provides QuerySet methods for models, customizable for specific queries.

```
# models.py
class PostManager(models.Manager):
    def published(self):
        return self.filter(published=True)
class Post(models.Model):
    objects = PostManager()
```

# 2. How do you create a custom model manager?

Answer: Subclass models. Manager and assign to objects.

```
# models.py
class Post(models.Model):
    objects = PostManager()
```

# 3. What is a ForeignKey field?

Answer: ForeignKey defines a one-to-many relationship.

```
# models.py
class Comment(models.Model):
   post = models.ForeignKey('Post', on_delete=models.CASCADE)
```

# 4. What is a ManyToManyField?

Answer: ManyToManyField creates a many-to-many relationship via a junction table.

```
# models.py
class Post(models.Model):
tags = models.ManyToManyField('Tag')
```

# 5. What is select\_related()?

Answer: select\_related() performs a SQL JOIN to fetch ForeignKey-related objects in a single query, reducing database hits.

```
# views.py
from .models import Comment
comments = Comment.objects.select_related('post').all()
```

# 6. What is prefetch\_related()?

Answer: prefetch\_related() fetches ManyToMany or reverse ForeignKey objects in separate queries to optimize performance.

```
# views.py
from .models import Post
posts = Post.objects.prefetch_related('tags').all()
```

# 7. How do you create a class-based view?

Answer: Subclass View or a generic view like ListView.

```
# views.py
from django.views.generic import ListView
class PostListView(ListView):
    model = Post
    template_name = 'post_list.html'
```

# 8. What are Django signals?

Answer: Signals trigger functions on events like model saves.

```
# signals.py
from django.db.models.signals import post_save
from django.dispatch import receiver
@receiver(post_save, sender=Post)
def post_saved(sender, instance, **kwargs):
    print("Post saved")
```

# 9. How do you create a custom signal?

Answer: Define a Signal and connect it to a receiver.

```
# signals.py
from django.dispatch import Signal
custom_signal = Signal()

@receiver(custom_signal)
def handler(sender, **kwargs):
    print("Custom_signal")
```

# 10. What is Django middleware?

Answer: Middleware processes requests and responses globally.

```
# middleware.py
class LogMiddleware:
    def __init__(self, get_response):
        self.get_response = get_response

def __call__(self, request):
    print("Request received")
    return self.get_response(request)
```

# 11. How do you create custom middleware?

Answer: Define a class and add it to MIDDLEWARE.

```
# settings.py
MIDDLEWARE = ['myapp.middleware.LogMiddleware']
```

### 12. What is Django's caching framework?

Answer: It stores data to reduce database load, using backends like Redis.

```
# views.py
from django.views.decorators.cache import cache_page
@cache_page(60 * 10)
def post_list(request):
    return render(request, 'post_list.html')
```

### 13. How do you handle file uploads?

Answer: Use FileField and process request. FILES.

```
# models.py
class Document(models.Model):
    file = models.FileField(upload_to='docs/')
# views.py
def upload(request):
    if request.method == 'POST':
        form = DocumentForm(request.POST, request.FILES)
    if form.is_valid():
        form.save()
```

# 14. What is the Django Debug Toolbar?

Answer: A tool for profiling queries and performance.

```
# settings.py
INSTALLED_APPS = ['debug_toolbar']
MIDDLEWARE =
    ['debug_toolbar.middleware.DebugToolbarMiddleware']
```

# 15. How do you implement pagination?

Answer: Use Paginator to split QuerySets into pages.

```
# views.py
from django.core.paginator import Paginator

def post_list(request):
    posts = Post.objects.all()
    paginator = Paginator(posts, 10)
    page = paginator.get_page(request.GET.get('page'))
    return render(request, 'post_list.html', {'page': page})
```

# 16. What are template filters?

Answer: Filters transform template variables, like upper.

```
1 <!-- template.html -->
2 {{ title|upper }}
```

# 17. How do you create a custom template filter?

Answer: Define a function and register it with @register.filter.

```
# templatetags/filters.py
from django import template
register = template.Library()
@register.filter
def add_str(value, arg):
    return f"{value}{arg}"
```

# 18. How do you extend the Django User model?

Answer: Use a one-to-one field or subclass AbstractUser.

```
# models.py
from django.contrib.auth.models import AbstractUser
class CustomUser(AbstractUser):
   bio = models.TextField()
```

# 19. What is LoginRequiredMixin?

Answer: Restricts views to authenticated users.

```
# views.py
from django.contrib.auth.mixins import LoginRequiredMixin
class SecureView(LoginRequiredMixin, View):
    def get(self, request):
        return HttpResponse("Secure")
```

# 20. How do you handle transactions?

Answer: Use atomic() for atomic database operations.

```
# views.py
from django.db import transaction

@transaction.atomic
def update_post(request, pk):
    post = Post.objects.get(pk=pk)
    post.title = 'Updated'
post.save()
```

### 21. What is the contenttypes framework?

Answer: Enables generic relationships using ContentType.

```
# models.py
from django.contrib.contenttypes.fields import
    GenericForeignKey

class Comment(models.Model):
    content_type =
        models.ForeignKey('contenttypes.ContentType',
        on_delete=models.CASCADE)

object_id = models.PositiveIntegerField()
content_object = GenericForeignKey()
```

# 22. How do you implement internationalization?

Answer: Use gettext and makemessages for translations.

```
# views.py
from django.utils.translation import gettext as _
def greet(request):
    return HttpResponse(_("Hello"))
```

# 23. What are Django generic views?

Answer: Pre-built views for common tasks, like ListView.

```
# views.py
from django.views.generic import ListView
class PostListView(ListView):
    model = Post
    template_name = 'post_list.html'
```

# 24. How do you secure a Django app?

Answer: Use HTTPS, CSRF tokens, and set DEBUG=False.

```
# settings.py

SECURE_SSL_REDIRECT = True

DEBUG = False
```

### 25. How do you create a custom admin interface?

Answer: Subclass ModelAdmin to customize fields and actions.

```
# admin.py
from django.contrib import admin
class PostAdmin(admin.ModelAdmin):
    list_display = ['title', 'created_at']
admin.site.register(Post, PostAdmin)
```

### 26. What is a Django formset?

Answer: A formset manages multiple forms, useful for repeated data entry.

```
# views.py
from django.forms import formset_factory
PostFormSet = formset_factory(PostForm)
def manage_posts(request):
    formset = PostFormSet(request.POST or None)
    if formset.is_valid():
        formset.save()
```

# 3 Django REST Framework Basics

# 1. What is Django REST Framework?

Answer: DRF builds RESTful APIs with serializers and viewsets.

```
# settings.py
2 INSTALLED_APPS = ['rest_framework']
```

# 2. How do you install DRF?

Answer: Install Django REST Framework using pip install djangorestframework and add 'rest\_framework' to INSTALLED\_APPS in settings.py.

```
# Install via terminal
pip install djangorestframework

# settings.py
INSTALLED_APPS = [
'rest_framework',
]
```

#### 3. What is a DRF serializer?

Answer: Converts Python objects to JSON and validates data.

```
# serializers.py
from rest_framework import serializers
class PostSerializer(serializers.Serializer):
    title = serializers.CharField(max_length=200)
```

#### 4. What is a ModelSerializer?

Answer: Automatically maps model fields to serialized fields.

```
# serializers.py
from rest_framework import serializers
class PostSerializer(serializers.ModelSerializer):
    class Meta:
        model = Post
        fields = ['id', 'title']
```

# 5. How do you create a DRF API endpoint?

Answer: Define a serializer, view, and URL.

```
# views.py
from rest_framework.views import APIView
from rest_framework.response import Response
class PostList(APIView):
    def get(self, request):
        posts = Post.objects.all()
        serializer = PostSerializer(posts, many=True)
        return Response(serializer.data)
```

### 6. What are DRF viewsets?

Answer: Viewsets combine API operations for a model.

```
# views.py
from rest_framework import viewsets
class PostViewSet(viewsets.ModelViewSet):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
```

# 7. How do you use DRF routers?

Answer: Routers generate URLs for viewsets.

```
# urls.py
from rest_framework.routers import DefaultRouter
router = DefaultRouter()
router.register(r'posts', PostViewSet)
urlpatterns = router.urls
```

# 8. What is DRF authentication?

Answer: Supports token, session, or JWT authentication.

```
# settings.py
REST_FRAMEWORK = {
    'DEFAULT_AUTHENTICATION_CLASSES':
        ['rest_framework.authentication.TokenAuthentication']
}
```

# 9. What are DRF permission classes?

Answer: Control access, like IsAuthenticated.

```
# views.py
from rest_framework.permissions import IsAuthenticated
class PostList(APIView):
    permission_classes = [IsAuthenticated]
def get(self, request):
    return Response({'data': 'Posts'})
```

### 10. How do you enable CORS in DRF?

Answer: Use django-cors-headers for cross-origin requests.

```
# settings.py
INSTALLED_APPS = ['corsheaders']
MIDDLEWARE = ['corsheaders.middleware.CorsMiddleware']
CORS_ALLOWED_ORIGINS = ['http://localhost:3000']
```

### 11. What is the DRF browsable API?

Answer: An HTML interface for testing API endpoints.

```
# urls.py
urlpatterns = [path('api/', include('myapp.urls'))]
```

# 12. How do you handle GET requests in DRF?

Answer: Define a get() method in a view.

```
# views.py
class PostList(APIView):
    def get(self, request):
        posts = Post.objects.all()
        serializer = PostSerializer(posts, many=True)
        return Response(serializer.data)
```

### 13. What is describlization in DRF?

Answer: Converts JSON to Python objects with validation.

```
# views.py
class PostCreate(APIView):
    def post(self, request):
        serializer = PostSerializer(data=request.data)
        if serializer.is_valid():
            serializer.save()
            return Response(serializer.data)
        return Response(serializer.errors, status=400)
```

# 14. How do you validate serializers?

Answer: Use validate() or field-specific methods.

```
# serializers.py
class PostSerializer(serializers.ModelSerializer):
    def validate_title(self, value):
        if len(value) < 5:
            raise serializers.ValidationError("Title too short")
        return value
class Meta:
    model = Post
    fields = ['id', 'title']</pre>
```

### 15. What are DRF generic views?

Answer: Pre-built views for common API tasks.

```
# views.py
from rest_framework.generics import ListAPIView
class PostListView(ListAPIView):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
```

### 16. How do you implement pagination in DRF?

Answer: Configure PageNumberPagination in settings.py.

```
# settings.py
REST_FRAMEWORK = {
    'DEFAULT_PAGINATION_CLASS':
        'rest_framework.pagination.PageNumberPagination',
    'PAGE_SIZE': 10
}
```

# 17. What is the Response class?

Answer: Wraps API responses with data and status codes.

```
# views.py
from rest_framework.response import Response
def my_view(request):
    return Response({'message': 'Hello'}, status=200)
```

# 18. How do you handle nested serializers?

Answer: Include serializers as fields with many=True.

```
# serializers.py
class PostSerializer(serializers.ModelSerializer):
    tags = TagSerializer(many=True)
    class Meta:
        model = Post
        fields = ['id', 'tags']
```

# 19. What is the APIView class?

Answer: Base class for DRF views, handling HTTP methods.

```
# views.py
from rest_framework.views import APIView
class MyView(APIView):
    def get(self, request):
        return Response({'data': 'Hello'})
```

# 20. How do you test DRF APIs?

Answer: Use APITestCase to simulate requests.

```
# tests.py
from rest_framework.test import APITestCase
class PostTests(APITestCase):
    def test_list_posts(self):
        response = self.client.get('/api/posts/')
        self.assertEqual(response.status_code, 200)
```

### 21. What are DRF renderers?

Answer: Convert responses to formats like JSON.

```
# views.py
from rest_framework.renderers import JSONRenderer
class MyView(APIView):
    renderer_classes = [JSONRenderer]
def get(self, request):
    return Response({'data': 'Hello'})
```

# 22. How do you handle versioning in DRF?

Answer: Use URLPathVersioning for versioned APIs.

```
# settings.py
REST_FRAMEWORK = {
    'DEFAULT_VERSIONING_CLASS':
        'rest_framework.versioning.URLPathVersioning'
}
# urls.py
path('api/v1/posts/', PostList.as_view())
```

# 23. What is the DefaultRouter?

Answer: Generates URLs for viewsets with optional suffixes.

```
# urls.py
from rest_framework.routers import DefaultRouter

router = DefaultRouter()
router.register(r'posts', PostViewSet)
urlpatterns = router.urls
```

# 24. How do you implement filtering in DRF?

Answer: Use django-filter with DjangoFilterBackend and specify filterset\_fields in the view to filter querysets based on query parameters.

```
# Install via terminal
pip install django-filter

# settings.py
INSTALLED_APPS = ['django_filters']

# views.py
from django_filters.rest_framework import DjangoFilterBackend
from rest_framework.generics import ListAPIView
from .models import Post
from .serializers import PostSerializer
class PostListView(ListAPIView):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
    filter_backends = [DjangoFilterBackend]
    filterset_fields = ['title']
```

### 25. How do you implement search in DRF?

Answer: Use SearchFilter with search\_fields in a DRF view to enable searching on specified model fields via query parameters.

```
# views.py
from rest_framework.filters import SearchFilter
from rest_framework.generics import ListAPIView
from .models import Post
from .serializers import PostSerializer
class PostListView(ListAPIView):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
    filter_backends = [SearchFilter]
    search_fields = ['title']
```

# 4 Django REST Framework Advanced

### 1. How do you implement token authentication in DRF?

Answer: Use rest\_framework.authtoken to generate tokens, add it to INSTALLED\_APPS, configure TokenAuthentication in settings.py, and include the token authenti-

cation view in URLs.

```
# settings.py
 INSTALLED_APPS = [
      'rest_framework',
      'rest_framework.authtoken',
 REST_FRAMEWORK = {
      'DEFAULT_AUTHENTICATION_CLASSES': [
          'rest_framework.authentication.TokenAuthentication',
      ]
10 }
11
12 # urls.py
13 from django.urls import path
14 from rest_framework.authtoken.views import obtain_auth_token
15 urlpatterns = [
      path('api-token-auth/', obtain_auth_token,
         name='api_token_auth'),
17
```

### 2. What is JWT authentication in DRF?

Answer: Uses JSON Web Tokens for stateless authentication.

# 3. How do you create custom permissions in DRF?

Answer: Subclass BasePermission for custom access logic.

```
# permissions.py
from rest_framework.permissions import BasePermission
class IsPostOwner(BasePermission):
    def has_object_permission(self, request, view, obj):
        return obj.author == request.user
```

# 4. How do you implement throttling in DRF?

Answer: Limit request rates with UserRateThrottle.

```
# settings.py
REST_FRAMEWORK = {
    'DEFAULT_THROTTLE_CLASSES':
        ['rest_framework.throttling.UserRateThrottle'],
    'DEFAULT_THROTTLE_RATES': {'user': '100/day'}
}
```

# 5. How do you handle nested writes in DRF?

Answer: Override create or update in serializers.

# 6. What are DRF parsers?

Answer: Process incoming data, like JSONParser.

```
# views.py
from rest_framework.parsers import JSONParser
class MyView(APIView):
    parser_classes = [JSONParser]
def post(self, request):
    return Response(request.data)
```

# 7. How do you customize error responses?

Answer: Override exception\_handler in a custom function to modify DRF error responses, then configure it in settings.py.

```
# myapp/exceptions.py
from rest_framework.views import exception_handler
def custom_exception_handler(exc, context):
    response = exception_handler(exc, context)
    if response is not None:
        response.data['error'] = 'Custom error message'
return response

# settings.py
REST_FRAMEWORK = {
    'EXCEPTION_HANDLER':
    'myapp.exceptions.custom_exception_handler'
}
```

### 8. How do you implement API documentation?

Answer: Use drf-yasg for Swagger/OpenAPI docs.

# 9. How do you handle background tasks in DRF?

Answer: Use Celery for asynchronous tasks.

```
# tasks.py
from celery import shared_task
@shared_task
def process_post(post_id):
    post = Post.objects.get(id=post_id)
print(f"Processed {post.title}")

# views.py
def my_view(request):
    process_post.delay(1)
return Response({'status': 'Task started'})
```

#### 10. What is ModelViewSet?

Answer: Provides full CRUD operations for a model.

```
# views.py
from rest_framework import viewsets
class PostViewSet(viewsets.ModelViewSet):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
```

### 11. How do you optimize DRF APIs?

Answer: Use caching, pagination, and query optimization.

```
# views.py
class PostListView(ListAPIView):
    queryset = Post.objects.select_related('author')
    serializer_class = PostSerializer
```

# 12. What is ReadOnlyModelViewSet?

Answer: Supports only read operations.

```
# views.py
from rest_framework import viewsets
class PostReadOnlyViewSet(viewsets.ReadOnlyModelViewSet):
    queryset = Post.objects.all()
serializer_class = PostSerializer
```

# 13. How do you handle file uploads in DRF?

Answer: Use FileField and MultiPartParser.

```
# serializers.py
class FileSerializer(serializers.ModelSerializer):
    file = serializers.FileField()
    class Meta:
        model = Document
        fields = ['file']

# views.py
from rest_framework.parsers import MultiPartParser
class FileUploadView(APIView):
    parser_classes = [MultiPartParser]
```

```
def post(self, request):
    serializer = FileSerializer(data=request.data)
    if serializer.is_valid():
        serializer.save()
        return Response(status=201)
```

### 14. What are viewset actions?

Answer: Custom endpoints defined with @action.

### 15. How do you implement sorting in DRF?

Answer: Use OrderingFilter with ordering\_fields in a DRF view to enable sorting on specified model fields via query parameters.

```
# views.py
from rest_framework.filters import OrderingFilter
from rest_framework.generics import ListAPIView
from .models import Post
from .serializers import PostSerializer
class PostListView(ListAPIView):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
    filter_backends = [OrderingFilter]
    ordering_fields = ['title']
```

# 16. What is HyperlinkedModelSerializer?

Answer: Includes hyperlinks to related resources.

```
# serializers.py
class PostSerializer(serializers.HyperlinkedModelSerializer):
    class Meta:
    model = Post
    fields = ['url', 'title']
```

# 17. How do you handle large datasets in DRF?

Answer: Use pagination or streaming responses.

```
# views.py
from rest_framework.response import StreamingHttpResponse
def stream_posts(request):
    def generate():
        for post in Post.objects.iterator():
```

```
yield f"{post.title}\n"
return StreamingHttpResponse(generate())
```

# 18. How do you secure a DRF API?

Answer: Use HTTPS, JWT, and permissions.

```
# settings.py
REST_FRAMEWORK = {
    'DEFAULT_AUTHENTICATION_CLASSES':
        ['rest_framework_simplejwt.authentication.JWTAuthentication'],
    'DEFAULT_PERMISSION_CLASSES':
        ['rest_framework.permissions.IsAuthenticated']
}
```

### 19. What is GenericAPIView?

Answer: Extends APIView with mixins for common tasks.

```
# views.py
from rest_framework.generics import GenericAPIView
from rest_framework.mixins import ListModelMixin

class PostListView(ListModelMixin, GenericAPIView):
    queryset = Post.objects.all()
    serializer_class = PostSerializer
    def get(self, request, *args, **kwargs):
        return self.list(request, *args, **kwargs)
```

# 20. How do you implement rate limiting?

Answer: Configure throttling for specific views.

```
# views.py
from rest_framework.throttling import UserRateThrottle
class LimitedView(APIView):
    throttle_classes = [UserRateThrottle]
def get(self, request):
    return Response({'data': 'Limited'})
```

# 21. How do you handle API errors?

Answer: Raise APIException or customize error handling.

```
# views.py
from rest_framework.exceptions import APIException
class MyView(APIView):
    def get(self, request):
        raise APIException("Error occurred")
```

### 22. How do you integrate Celery with DRF?

Answer: Define tasks and trigger them from views.

```
# tasks.py
from celery import shared_task
@shared_task
def send_notification(post_id):
```

```
post = Post.objects.get(id=post_id)
print(f"Notified for {post.title}")

# views.py
def my_view(request):
    send_notification.delay(1)
return Response({'status': 'Task started'})
```

### 23. What is SerializerMethodField?

Answer: Computes dynamic field values.

```
# serializers.py
class PostSerializer(serializers.ModelSerializer):
    summary = serializers.SerializerMethodField()
    def get_summary(self, obj):
        return obj.title[:50]
class Meta:
    model = Post
    fields = ['id', 'summary']
```

# 24. How do you implement partial updates?

Answer: Use partial=True for PATCH requests.

# 25. How do you deploy a DRF API?

Answer: Use Gunicorn, Nginx, and set DEBUG=False.

```
# settings.py
DEBUG = False
ALLOWED_HOSTS = ['example.com']
# Run with Gunicorn
gunicorn myproject.wsgi:application --bind 0.0.0.0:8000
```

# Conclusion

These 100 Django and DRF questions with code examples prepare you for 2025 interviews. Practice these snippets and explore Django/DRF documentation for deeper understanding.