Django Rest Framework Examination - Exam 04

Total Marks: 100
Duration: 2 hours
Submission Deadline: Same Day

Instructions

- Complete all sections of the exam.
- Document your answers clearly, including screenshots where applicable.
- Save the document as: `[Student Name] - Django Rest Framework - [Date] - Exam 04`.

Section A: Multiple Choice Questions (20 marks)

Instructions: Circle the correct answer.

1. What is the primary purpose of serializers in DRF?
   a) To define URLs
   b) To convert complex data types into JSON
   c) To handle user authentication
   d) To create views

2. Which of the following methods is used to handle a POST request in a DRF view?
   a) `get()`
   b) `post()`
   c) `create()`
   d) `add()`

3. What does a `ModelSerializer` do in DRF?
   a) Automatically creates a view
   b) Serializes data based on Django models
   c) Handles user authentication
   d) Manages database migrations

4. Which HTTP method is used to update a resource in RESTful APIs?
   a) GET
   b) POST
   c) PUT
   d) DELETE

5. What is the purpose of the `APIView` class in DRF?
   a) To handle static files

b) To create API views with HTTP method handlers

c) To define database models

d) To manage user sessions

Section B: Short Answer Questions (30 marks)

1. **Explain the basic steps to create a simple CRUD API using DRF. (5 marks)**
   Answer:

2. **How do you create a serializer for a Django model? (5 marks)**
   Provide a simple code example.
   Answer:

3. **What is the role of the `create()` method in a DRF view? (5 marks)**
   Answer:

4. **Describe how to implement the delete operation in DRF. (5 marks)**
   Provide a simple code example.
   Answer:

5. **Explain how to retrieve a single object using DRF. (5 marks)**
   Provide a simple code example.
   Answer:

6. **How can you test your CRUD API endpoints in DRF? (5 marks)**
   Describe the tools or methods you can use for testing.
   Answer:

7. **What is the purpose of the `get_queryset()` method in a DRF view? (5 marks)**
   Answer:

Submission

Make sure all sections are completed and all screenshots are included. Submit your document by the end of the exam.

Good luck!