**Theory**

**Understanding Views in Django REST Framework (DRF)**

In Django REST Framework (DRF), views are responsible for handling HTTP requests and returning appropriate responses. DRF supports two types of views: **Function-based views (FBVs)** and **Class-based views (CBVs)**.

1. **Function-Based Views (FBVs):**
   * **Structure**: A function-based view is just a Python function that takes a request object as input and returns a response object.
   * **Use Case**: FBVs are suitable for simpler views where you can write all the logic directly inside the function.
   * **Example**: A view to retrieve a list of doctors could simply be a function that queries the database, serializes the results, and returns them in a JSON response.

**Advantages of Class-Based Views (CBVs):**

* **Modularity**: DRF provides predefined mixins and base classes that allow you to handle common functionality (like list, create, update, and delete operations) more easily.
* **Extensibility**: CBVs allow you to extend functionality by overriding methods, enabling more flexible and reusable code.
* **Code Reusability**: Instead of writing separate functions for each operation (create, read, update, delete), CBVs allow you to combine them in a clean, organized way.