Setting Up a Django REST Framework Project on Windows

This document outlines the steps for setting up a Django REST Framework project on a Windows PC by cloning the repository from GitHub, creating a virtual environment, installing dependencies, and running the project.

# Steps to Set Up the Project

1. Clone the Repository from GitHub:  
 Open a command prompt and run the following command to clone the repository:

git clone https://github.com/your-username/your-repository-name.git

2. Navigate to the Project Folder:  
 Once the repository is cloned, navigate into the project directory:

cd your-repository-name

3. Create a Virtual Environment:  
 Inside the project directory, create a new virtual environment by running:

python -m venv venv

This will create a new folder named 'venv' containing the virtual environment.

4. Activate the Virtual Environment:  
 Activate the virtual environment by running the following command:

.\venv\Scripts\activate

5. Install the Required Dependencies:  
 Once the virtual environment is activated, install the dependencies from the `requirements.txt` file:

pip install -r requirements.txt

6. Migrate the Database (if applicable):  
 If the project uses a database, run the migrations:

python manage.py migrate

7. Run the Development Server:  
 After completing the setup, run the Django development server:

python manage.py runserver

The development server will be available at http://127.0.0.1:8000/ by default.

8. Keep `requirements.txt` Updated:  
 If new dependencies are added to the project, update the `requirements.txt` file by running:

pip freeze > requirements.txt

This will update the `requirements.txt` file with all the installed packages.