

# College of Engineering, Construction and Living Sciences Bachelor of Information Technology

IN608: Intermediate Application Development Concepts Level 6, Credits 15

# Practical 14 Django 8: Django REST Framework

**Due Date:** 14/09/2020 at 5pm

In this practical, you will complete a series of tasks covering today's lecture. This practical is worth 1% of the final mark for the IN608: Intermediate Application Development Concepts course.

Before you start, in your practicals repository, create a new branch called 14-practical.

#### Task

Create a Django project called quizcreatordrf. cd to quizcreatordrf, create a virtual environment & install Django. Create an app called practical14quizcreatordrf. Please ensure you configure your app in quizcreatordrf/settings.py & quizcreatordrf/urls.py.

In order to create a Django REST API, the djangorestframework Python module must be installed. Run the command piperv install djangorestframework to install the djangorestframework Python module. In settings.py, declare rest\_framework in INSTALLED\_APPS.

In the models.py, copy & paste the User & Quiz model from Practical 12 Django 6: Authentication.

Create two files called serializer.py & urls.py. In serializer.py, create two classes called UserSerializer & QuizSerializer which implement serializers.ModelSerializer. For each class, create a nested class called Meta. In the Meta class, declare the appropriate model & fields.

In view.py, create two classes called UserViewSet which implements viewsets.ReadOnlyModelViewSet & QuizViewSet which implements viewsets.ModelViewSet. For each class, declare the appropriate queryset & serializer\_class, i.e., User.objects.all() & UserSerializer.

In urls.py, create two URLs which map to UserViewSet & QuizViewSet. The URL patterns should be as follows:

• api/user

• api/quiz

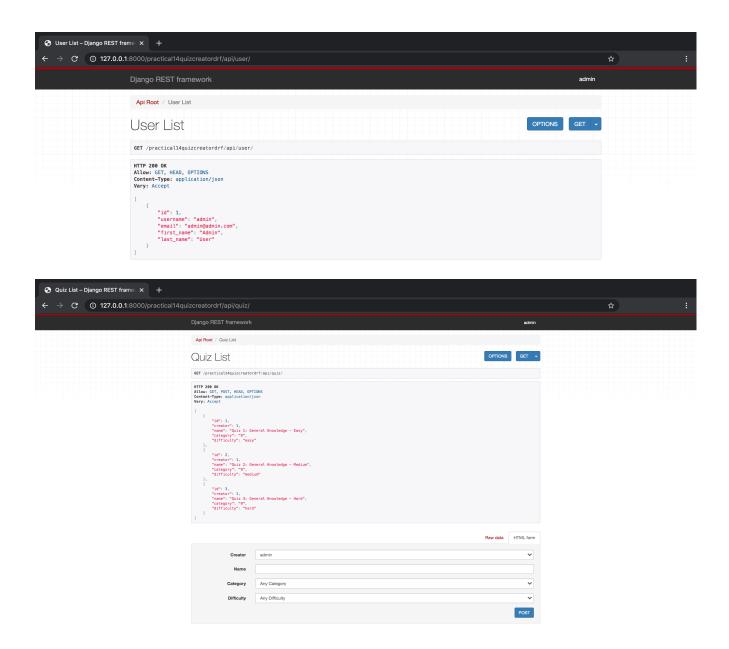
In settings.py, set permission policy so that the API is restricted to only admin users.

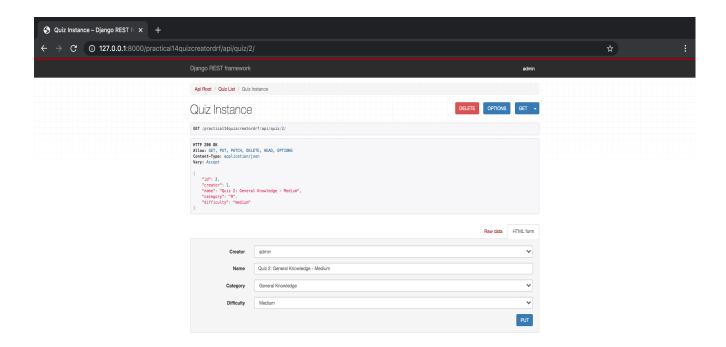
## **Expected Output**

 $Run\ the\ command\ python\ \ manage.py\ \ runserver\ then\ navigate\ to\ http://127.0.0.1:8000/practical 14 quiz creator drf/api$ 









Deployment link: https://int-app-dev-practical-14.herokuapp.com/practical14quizcreatordrf/api

### Resources

• Django REST Framework