**Advanced Web Development**

**Report**

A short report (2000 words) in .PDF format explaining the code in your application and how it meets the requirements:

R1: The application contains the basic functionality described in class

a) correct use of models and migrations

b) correct use of form, validators and serialisation

c) correct use of Django-rest-framework

d) correct use of URL routing

e) appropriate use of unit testing

R2: Implements an appropriate data model for the data

R3: Implementation of appropriate code for the required REST endpoints

R4: Implementation of appropriate method of bulk loading data

You may use focused, short code extracts if they make your explanation clearer. Explain the logic of your approach, why is your code arranged as it is. Talk about the dataset and the endpoints and why these are interesting.

**Report discusses the dataset - what's interesting about it?**

The dataset is interesting because we can learn more airports such as the elevation, the geographic location and type. We can also learn how many airports are located in a country or even a particular region or city.

**Report discusses the endpoints - what's interesting about them, how complex is the query?**

**Report explains how the application requirements have been met**

**Application of the techniques taught (best practice use of django and django-rest-framework evidenced)**

The report explains, and code evidences

3

3.75

60

75

Report shows evidence of critical evaluation of work/approach in relation to state of the art in web development

**Report includes necessary run info such as OS, Python version and login credentials**

Include a section on how to unpackage and run your application:

• A list of all packages and the versions used for your implementation

• Your development environment i.e. the operating system and python version

• Instruction for logging into the django-admin site i.e. username and password

• Include how to run the unit tests and the location of the data loading script

Packages and versions:

Development environment:

Operation system: Windows 11 Home

IDE: Visual Studio Code

Python version:

First: installation of virtual environment for the project

Command prompt:

pip install virtualenv

virtualenv env

to activate virtual environment:

cd env

cd scripts

.\activate

cd ..

Installation of Django in the virtual environment

Command: pip install Django

To create Django project:

Command: django-admin startproject aviation

cd mysite

To create an app

Command: django-admin startapp (then name of the app)

Extra:

name = models.CharField(\_("name"),max\_length=255)

I use the \_ for translation, only for the name of the airport

python manage.py makemigrations

python manage.py migrate

user:Minnie

email:demo@demo.com

password: testtest456