# Network programming:

## Lab 4 RESTful API

### Scenario:

You as a software developermust create the client-server-based RESTful app "AirportManagement" system. With the next abilities:

Get, post and update flight data: with multiple roles

#### Task:

Create RESTfull app with two roles: admin and client.

Admin – user that has access to get, post, update and delete flight data

Client – user that has access to get the data

Implement the next API.

#### For Admin:

Localhost/authentication\_authorization/ - to access via login and password

Localhost/flights - to add delete and update the flights

Localhost/flights/from/to/ - get the list of flights from - city, to - city

Localhost/end\_session – to end the session

#### For User:

Localhost/flights/from/to/ - get the list of flights from - city, to - city

City, date and time of arrival, date and time of departure, Airplane info, passengers number must be in the flights data.

#### Requirement:

Use the OOP approach while coding the Client Server application.

Use Flask-RESTful and flask-sqlalchemy library

Upload the source code to your *github* and LMS (zip) repository.

Add requirements. txt file that includes all the python libs that are necessary for the project

Add the README file for the user who runs your code (explain the options)

Deadline: The task must be done till the 2/12/2020

# Helper Links:

 $\underline{https://blog.miguelgrinberg.com/post/designing-a-restful-api-with-python-and-flask}$ 

https://flask-restful.readthedocs.io/en/latest/

https://flask-sqlalchemy.palletsprojects.com/en/2.x/