# Network programming:

## Lab 4 RESTful API

**Scenario:**

You as a software developer must 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:**

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/