# Objectives

* Practice on different testing levels
* Practice on different testing types
* Learn popular activities in testing
* Practice on building a reliable well tested API

# Logistics

* You should work on teams
* Teams consists of 2 members exactly
* Send to your TA if you can’t find a team
* Working in teams consists of more or less than 2 members is disallowed unless you got a permission from your teacher.

# Description

* In this assignment you should build an API that return info for a given country
* The returned info should be a True info, so you should get this info from a public API. You can search for a good public API to use and you can check these APIs
  + <https://github.com/apilayer/restcountries>
  + <https://openweathermap.org/current>
* The consumer of your API should be able to send a specific country to get info about it and the requested info
* You should return a dictionary contains the requested info for the provided country
  + Example: GET <http://localhost:8000/country/guide/egypt?info=weather,population>
  + This should return the following
  + {“weather”: 25, “population”: 91290000}
* This API should be covered with both unit tests and integration tests.
* Each team should use GIT for team collaboration. Use the pull requests workflow as you learned before in the previous courses.
* Submit a report contains a description for your API and state any notes related to your API.
* The report should contain a description for each unit test case and integration test case.
* You will get the full mark if the following happened
  + Your API is working correctly
  + Each unit test case focus on testing a specific function with a specific scenario.
  + Failing reasons for each unit test case is specifically one reason.
  + Your test cases can run normally without the need of any other outside resource, which means that your test cases can run normally without the need of internet connection
  + Your unit test cases covers 100% for your code