

# P.PORTO

## TESTES E PERFORMANCE WEB

TECNOLOGIAS E SISTEMAS DE INFORMAÇÃO PARA A WEB

**POLITÉCNICO  
DO PORTO**  
ESCOLA  
SUPERIOR  
DE MEDIA ARTES E  
DESIGN

## M10 – INTEGRATION TESTS – WORKSHEET

TSIW 2023/2024



## QUESTIONS

1. Create a NodeJS project or use the REST API that you're developing to the WebPii project;
  - 1.1. If you're using a new project create a set of random API calls in order to be tested;
  - 1.2. If you're using a new project find free API's in the following link:  
<https://mixedanalytics.com/blog/list-actually-free-open-no-auth-needed-apis/>
  - 1.3. If you're using WebPii REST API select some database functions to be tested.
2. Install and configure Jest;
3. Create the necessary test suites (test.js files);
4. Create the integration tests for the selected api calls or selected database functions;
5. Run the test suites.

## QUESTIONS

6. Check the test suites coverage;
7. You can use the following project as example:

<https://github.com/jooadrianoferreira/ESMAD-TSIW-M09-JEST-INTEGRATION-TESTS>

## SUBMISSION

1. Upload the NodeJS project, without the node\_modules folder to moodle;
2. Zip all files;
3. Rename the file with the following pattern: name\_surname\_studentNumber (e.g. João\_Ferreira\_40000000).