

P.PORTO

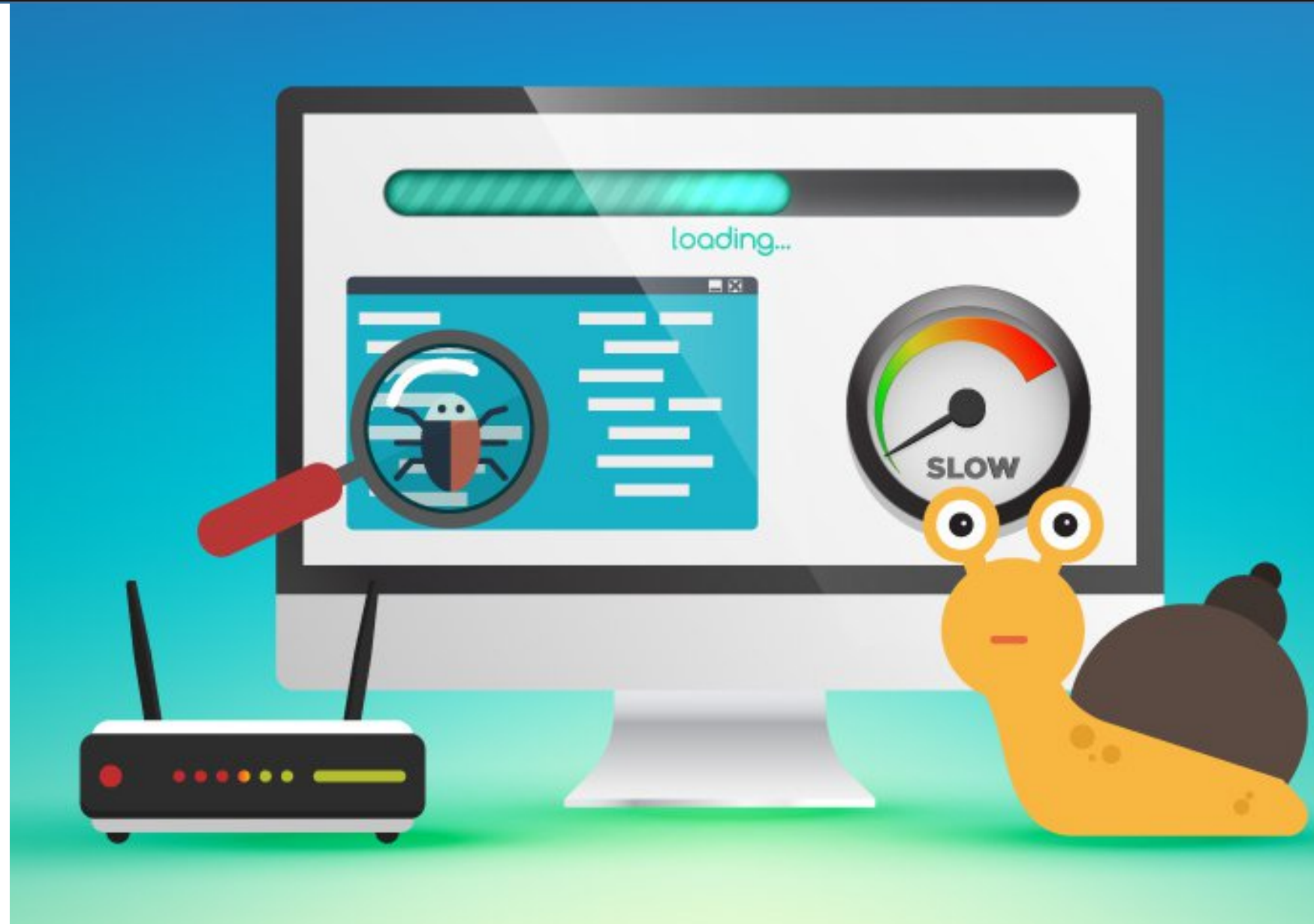
TESTES E PERFORMANCE WEB

TECNOLOGIAS E SISTEMAS DE INFORMAÇÃO PARA A WEB

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

M04 – ASSETS OPTIMIZATION - WORKSHEET

TSIW 2023/2024



QUESTIONS

1. Create a single HTML page with the following requirements:
 1. Use several distinct images;
 2. Display these images with different sizes;
 3. Display these images in different positions including off-screen positions;
 4. Don't look to image sizes and resolutions.
2. Use http-server npm package to allow you to serve the page;
3. Use Google Lighthouse to assess performance and record the results;
4. Then, using the learned lesson on the theoretical class to fix the image optimization problems that were reported in Google Lighthouse.
5. Reassess the page and record the results.

SUBMISSION

1. Record both Google Lighthouse performance assessment (before and after optimizations techniques implementation) on a PDF file;
2. Upload initial version of the page and final version (with optimization techniques implemented).
3. Zip all files;
4. Rename the file with the following pattern: name_surname_studentNumber (e.g. João_Ferreira_40000000).