

Personal Challenge

You are free to create an application of your interest and show off the skills you acquired during the internship. Take this opportunity to innovate and use your talent for something that you find useful and/ or cool 😊

Conditions:

- Use Git as VCS.
- Use TDD
- Create BDD scenarios
- Develop a simple Web UI
- Implement continuous integration.
- Create an API.
- Interact with both a relational and non-relational database.

Delivery:

- 1) Create a presentation selling the main idea of your application and the problem it tries to solve (or what is its goal, as it can be a game or an application for leisure). This presentation should be in English.
- 2) Create a presentation for the technical architecture and structure of the code in English.
- 3) Demo the main functionality of your application.
- 4) Demo how unit test and BDD scenarios are working.
- 5) Demo how the continuous integration is working. Expected: Test run and deployment of the application.
- 6) Explain how you handle key security vulnerabilities of your architecture.
- 7) Explain possible performance issues in your code.
- 8) **Demonstrate how software verification and validation processes were applied.**

Bonus:

- Use containers to deploy your application
- Use performance metrics

Recommended time for completion:

Elapsed time: 4 weeks

Effective time: 1-2 weeks

Expected Date of Beginning: 📅 19 Mar 2018

Expected Date of Presentation: 📅 20 Apr 2018 . YOU will be scheduling a 1 hour presentation with interested parties. Bear in mind that you have 30 min for presentations, and 30 min for the demo.

Update:

- You can work in pairs or groups of 3.
- Final product and presentation skills will be evaluated
- You are in charge of setting up the presentation meeting.