# QA Challenge

## Description

The goal of this challenge is to successfully execute all the testing steps on the given websites, starting from QA planning, all the way to reporting.

## Assignment

You will perform two QA exercises to evaluate your manual testing and automatization skills. You will need to:
- Do QA planning.
- Create test cases based on the requirements.
- Find bugs on a website and report them on a bug tracking system.
- Set up an automated test suite
- Deliver a test run report document where test case pass and fails can be reviewed

## Mandatory Features

- Deliver a detailed planning sheet for each exercise.
- Design good test cases.
- Find as many bugs as possible on each website.
- Keep track of the bug life cycle with your Trello board.
- Show evidence of the bugs. Let us know how critical they are.
- Deliver a test run report and a bug report for each website.
- Deliver a good automation suite. Remember that it should be able to run on any computer. Your evaluator should not take hours guessing how to run it!

# Exercise 1

The site http://zero.webappsecurity.com must meet the following requirements:

- Verify the main navigation is displayed in all the internal tabs of the site.
- Layout must adapt to mobile device screens.
- The Feedback contact form should validate inputs before sending a message.

Perform the following testing tasks:

- Execute smoke test for the above requirements.
- Create high level test cases for the Feedback section and execute them.
- Create a board on http://trello.com, create lists for steps on bug resolution, and report bugs.

Deliverables:
- Share a Google spreadsheet including the following information:
  - Test cases list
  - Test run report
- Share a trello board including the following information:
  - List structure for bug resolution
  - Bugs reported

# Exercise 2:

The e-commerce site http://automationpractice.com is under development, and some of the features have to be tested. The website must meet the following requirements:

- The homepage should display the sections detailed on the design pdf file. It should display pixel-perfect on Chrome browser, viewport 1200px and above. The design file can be found here: https://drive.google.com/file/d/0B0aWI6NMr3VdWmo2Rm8tRGdjREU/view?usp=sharing
- Layout should be cross-browser compatible. Supported browsers are IE11, Chrome, Firefox and Safari on their latest versions (Pixel perfect applies only to Chrome.)
- For search, the user should be able to find all products containing the keyword in the product title. Products not containing the keyword should not display on results.
- On Contact form, all fields must be validated before sending a message.

- Add to cart flow should allow the user to:
    - Add products from category sections and search results.
    - The cart in the header must reflect all products added by the user.
    - Ability to remove item from cart on the header.
    - Users should be presented with checkout form using Proceed to checkout link on the header cart.

Perform the following testing tasks:

- Execute pixel perfect test on home page.
- Create detailed test cases for the search section, add to cart functionality, and contact form section.
- Execute acceptance test to the above sections based on test cases and requirements.
- Create a board on [http://trello.com](http://trello.com), create lists for steps on bug resolution and report bugs. Make sure that it is easy to find bugs for a specific functionality or requirement.
- Create an automation suite for contact form validation using a tool of your choosing (We recommend the framework Selenium.)

Deliverables:

- Share a Google spreadsheet including the following information:
    - Detailed test cases.
    - Test run report.
- Create a zip file including your automation suite.
    - Make sure to use well-known libraries, and specify the one you use on the readme. We suggest using Selenium, Robot Framework, Python or Java.
    - Specify what programs need to be installed, and what steps must be followed to run your automation suite.
- Share a trello board including the following information:
    - List structure for bug resolution.
    - Bugs reported.

## Bonus

Additional to the deliverables in each exercise, you may add a test cycle including some test cases with preconditions, steps to reproduce and execution. You can choose to use Testrail or Zephyr.