

Stage weken voor de opleiding Master Informatica

Titel: UI Test automation CyberLab

Gegevens bedrijf:

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<https://www.youtube.com/watch?v=tPpSNeDwPkk>

Korte of lange stage: **4 – 6 weken**

Korte beschrijving van de opdracht:

- CyberLab is a web application that is used by doctors/medical staff to
 - Order some tests at a clinical laboratory (think: blood tests, urine samples...)
 - Consult the results of those tests
- The application runs in a Tomcat Application server that renders HTML + JavaScript + CSS that is rendered in the browser (all browsers supported: IE 11, Edge, Chrome, Firefox...)
- The application is currently undergoing a complete overhaul of the UI
- A development process is in place where new code is reviewed by peers, and tested by dedicated test engineers
- New versions of the application are released on regular basis, and each of these versions requires a (manual) 'smoke test'

Challenge

- Currently, a lot of time is spent at manually testing the behaviour of the user interface. This can be cumbersome and repetitive.
- The goal of this internship would be to setup a framework that can be used to automatically
 - Execute user scenarios in the user interface
 - Verify if the UI is displayed as expected
 - Verify if the observed behaviour is as expected
- Once this framework would be in place, we should be able to replace a large part the manual 'smoke tests' with automatic tests.
- This will have an immediate positive impact on the development team, because this will
 - save time (faster time to market)
 - make time available to manually test more complex scenarios (higher quality)

Currently, a (very limited) framework is in place to automatically execute/verify some user interactions. However, this is still very limited, so there is still a lot of room for own ideas, design decisions...

The framework should be written in Java (11), based on Selenium WebDriver

Technologieën die aan bod zullen komen:

