Internship Proposition

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| From | Christophe Bonte |
| Subject | **‘CyberLab search engine’** |
| Date | 2020-10-26 |
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# MIPS

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

# Situation

* CyberLab is a web application that is used by doctors/medical staff to
  + Order 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

* Configuring the CyberLab application is not quick and easy.
* Several dedicated modules contain a lot of settings and configuration options.
* One must navigate through several modules and configure several options to enable an important functionality (for example label printing).
* A new module should be created which can “search” for configuration options throughout the CyberLab application.
* An existing framework could be used to facilitate this.
* The goal of this internship would be to setup a framework that can be used to automatically
  + Search configuration options based on keywords or matching configuration labels
  + Results should be shown “as you type” in an appealing way in the user interface
  + It should be possible to change all these “searched” options in that dedicated module.
* This will have an immediate positive impact on the administrators of CyberLab because this will save a lot of time for project people and administrators.

# Project

* Develop language  
  The search engine should be written in Java (11)
* Communication language  
  Dutch/English/French
* Duration  
  4-6 weeks
* Location  
  Ghent

# Divers

Currently we have several modules which contain settings scattered over the application. A dedicated configuration search will be very valuable for administrators and end-users.

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