

Schedule

This is the preliminary schedule:

Date	WS 1	WS 2
2018-11-28	neo4j	java9
2018-12-05	oauth2	camunda
2018-12-12	golang	graphql
2018-12-19	haskell	reserve and wrapup

Fontys SEBI Venlo



Enterprise Software Development



Hogescholen

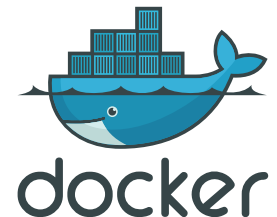
25th September 2019

Students prepare execute Workshops

In the course Enterprise Software Development, we apply the flip-the-classroom approach. Teacher sit back, students teach.

Our students will prepare a set of workshops, for which you find a short description in the leaflet.

The selection of topics to choose from is set up by the teachers. The focus is Java related technologies that are in vogue in the industry at this moment (Autumn 2018).



All is Docker here

All workshop projects should have at least one server component that is deployed in one (or more) docker containers.

Venlo, September 2018.

Pieter van den hombergh and Stefan Sobek

This lesson brief is brought to you by

Fontys Informatics Venlo.

If you find any errors or have suggestions, please let us know.

Email:

..... <mailto:informatics@fontysvenlo.org>



Neo4j

In this workshop you will learn about the advantages of a GraphDB using Neo4j as an example. We will tackle some specific use cases as well as teach you the basics of setting up a database in Neo4j and using its query language. Additionally, we will show you how to integrate this database system into a regular Java application.

Lucas Gehlen, Mike Schumacher



Java9 Modules

Do you suffer from external developers abusing your internal code? Would you like to better encapsulate your masterpieces? Do you want less coupling using dynamic principles in your Java applications? (of course you do!). Do you want more JARS? Do you want more emojis in your Java applications?!!!

Then join us in the Great Java Modularity Migration Workshop!

Loek Hertog, Tristan van Vegchel



OAuth2

The workshop about OAuth2 will show you how to use OAuth2 to retrieve data from a secured server. To do so, we will show you how to retrieve secure access tokens from a specified source to enable you to do that. We will also present a bit of theory and history of server-client authentication.

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Daljeet Sandu, Sebastian Wilczek



Implementing BPMN with Camunda

Camunda is a Business Process Model and Notation (BPMN) tool, used for creating diagrams displaying process procedures. In this workshop you will learn about the fundamentals of process modelling, the modelling possibilities of Camunda, and how to (semi-) automatize process models. In a given Docker environment, you are going to apply modelling techniques to visualize and automatize your own business process(es).

The example process is about a car dealer, seen at the workshop given by Capgemini. The knowledge of this workshop is used together with further experience in process design from the BPMN module. The expected outcome is an easy to deploy application, spawning the container using docker-compose, the default web GUI of Camunda and external third party services connected to this in order to show the extendability of Camunda.

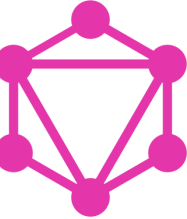
Jonas Heinz, Lea Rosenberg



Go-lang

Did you ever wanted a programming language that is productive and easy to use like Python, while being efficient like C or C++ and not having to despair on handling memory management? Then Go-lang is your way to go! This workshop will serve as an introduction to the Go-lang programming language informing you about what it is, what the benefits are and what it can be used for.

Mathias Nawacki, Fabian Witeczek



GraphQL

Have you ever worked with REST API? If so, you know how tedious it can become creating and managing all endpoints. GraphQL tries to solve this issue. It is a data query language developed by Facebook in 2012 before being publicly released in 2015. It provides a more efficient, powerful and flexible alternative to REST and ad-hoc web service architectures. It allows clients to define the structure of the data required, and exactly the same structure of the data is returned from the server, therefore preventing excessively large amounts of data from being returned.

Ajeet Sandu, Patrick Richter



Haskell

This workshop will introduce the functional programming paradigm using Haskell. You are going to see the benefits of functional in contrast to object-oriented programming. To do so, small practical assignments will be provided to guide you through the beautiful world of the Glorious Haskell Compiler!

Jan Evers, Marco Kull