Linnéuniversitetet
Linnaeus University

Degree Project Proposal
Department of Computer Science

Thesis Topic	**Automatization of development environment**
Degree level	Bachelor
Company	InfoCaption
Description	InfoCaption have since 2001 developed a e-learning system that are used by large and small organizations in different countries. In InfoCaption our customers can create processes and guides to show their users how to get things done in different processes or tasks. The system InfoCaption has a foundation as a java-based web application that in the recent years have started to divide frontend and backend. This have increased the number of different tools and build processes needed in development. An automized build process exists for the deployment of the application but the development environment consists of a number of different tools that need to be installed, updated, started and configured manually by each developer. The goal is to create a development environment where a developer can choose their preferred IDE and use one build process to build the application.
Objectives	The project includes • Evaluate and combine the different build processes for development • Create a development-environment-as-code setup, which receives a declaration of the development tools to install and configure and creates a package for the development environment with everything properly installed and configured • Combination of the dev-env-as-code setup with the Continuous Integration environment
Requirements	Experience with the process of building applications, preferably java and JavaScript applications. Experience with automatization of build processes.
Contact Person	Filip Bång filip.bang@infocaption.com