

HOWEST

THESIS

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# Automated deployment of a white-label web application

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## Declaration of Authorship

I, Niek CANDAELE, declare that this thesis titled, “Automated deployment of a white-label web application” and the work presented in it are my own. I confirm that:

- This work was done wholly or mainly while in candidature for a research degree at this University.
- Where any part of this thesis has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated.
- Where I have consulted the published work of others, this is always clearly attributed.
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- I have acknowledged all main sources of help.
- Where the thesis is based on work done by myself jointly with others, I have made clear exactly what was done by others and what I have contributed myself.

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*“Funny or thought provoking quote goes here”*

Someone, somewhere



HOWEST

# *Abstract*

Bachelor of applied computer science

## **Automated deployment of a white-label web application**

by Niek CANDAELE

A case study and practical implementation of a white-labeled web application. Starting with an existing application, proceeding with analysis of the current implementation and problems, investigating potential solutions and finally implementing them





## *Acknowledgements*

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# List of Abbreviations

**AWS** Amazon Web Services



*For/Dedicated to/To my...*



## Chapter 1

# Intro

### 1.1 How it used to be

Stampix is a startup that prints free photos for clients. Every client gets their own branded web application.

This involves:

- Storing all brand-related content in a CMS (Contentful)
- Pulling in all that content during app runtime
- Deployments for new clients require a lot of manual configuration / dev work
- There's no automated tests, which can cause broken deployments if not careful

This had a few problems which I will explain in detail later ...

### 1.2 Solutions

Following are the methods used to improve this workflow. Each method will probably get it's own detailed chapter later?

- Using a static site generator to build web app and assets during build time
- Automated testing
- Deploying each built application to AWS



## Appendix A

# Performance reports

### A.1 Initial performance

Lighthouse scores? Some trace info? Other performance indicators?