

Topic:

**Prototypical Development of a
Docker-based Workflow Management System**

Masterthesis

in the subject

at the Department of Information Systems — Practical Computer Science

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Abbreviations

Symbolverzeichnis

a_0	Anschaffungsauszahlung in $t = 0$
C	Kapitalwert
dt	Einzahlungsüberschuss in bezug auf t
i	Kalkulationszinsfuß
n	Nutzungsdauer
q	Zinsfaktor $1 + i$
r_s	Abstand der Stufe s in cm vom Seitenrand
s	Stufenindex
t	Periodenindex

1 Introduction and Motivation

1.1 Research Methodology

1.2 Concepts and Terminology

1.2.1 Workflow Management Systems

1.2.2 Docker

- container virtualization technology

1.3 Related Work

2 Solution Design

2.1 Problem Identification

2.2 Derivation of Objectives

2.2.1 Functional Requirements

2.2.2 Intangible Requirements

2.3 Architecture

2.3.1 Application Architecture

2.3.2 Workflow Enactment Environment

2.3.3 Workflow Management Environment

2.3.4 Developer Client

2.3.5 User Client

3 Prototypical Implementation

3.1 Toolchain

3.2 Realization of the Architecture

Any Compromises here?

4 Evaluation and Discussion

5 Conclusion and Outlook

Bibliography