Sophisticated Template for a Thesis

Presented by First Last, MTA Born in Foo Bar

Template Faculty Template University To get the degree in

PhD of templates - Dr.-Tmpl. -

Submitted

Board:

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Reviewer: Prof. Dr.-Ing. Foo Bar (Example University)
Reviewer: Prof. Dr. Bar Foo (Another University)
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11. Februar 2016

LATEX

Affidavit

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Furthermore, I confirm that no sources have been used in the preparation of this thesis other than those indicated in the thesis itself.

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Dedicated to my beloved family.

ACKNOWLEDGMENTS

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ABSTRACT

Foo Bar

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Application Area:

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Foo Fooli

Research Issue: ((todo: write about the research issue)) Lorem ipsum dolor sit amet, consectetur adipisic-

Bar Barli

Own Approach: ((todo: write about the own approach)) Lorem ipsum dolor sit amet, consectetur adipisic-

Scientific Contributions

((todo: write about the scientific contributions)) Lorem ipsum dolor sit amet, consectetur

Validation & Outlook

((todo: write about the validation and outlook)) Lorem ipsum dolor sit amet, consectetur

ZUSAMMENFASSUNG

Foo Bar

Bar Foo

Bar Barli

Validierung & Ausblick

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TABLE OF CONTENTS

		хi
List of Listings		xiii
List of Tables		XV
1 Introduction		1
1.1 Background and Motivation		. 1
1.2 Problem Statement		. 3
1.3 Assumptions and Scope		. 4
1.4 Objectives and Contributions		. 4
1.5 Methodology and Outline		. 4
2 State of the Art		7
2.1 Introduction		. 7
2.2 Related Area 1		
2.2.1 Specific Example 1		. 8
2.2.2 Specific Example 2		
2.2.3 Specific Example 3		
2.3 Related Area 2		
2.3.1 Specific Example 1		
2.3.2 Specific Example 2		
2.4 Related Area 3		
2.4.1 Specific Example 1		
2.4.2 Specific Example 2		
2.5 Conclusion		
3 Requirement Analysis		15
3.1 Introduction		
3.2 Stakeholder 1		
3.3 Stakeholder 2		
3.4 Stakeholder 3		
3.5 Conclusion		
4 Contribution 1		19
4.1 Introduction		
4.2 State of the Art		
4.2.1 Related Work 1		

		4.2.2 Related Work 2	21
		4.2.3 Related Work 3	21
	4.3	Own Approach	22
		4.3.1 Overview	22
		4.3.2 First Part	22
		4.3.3 Second Part	23
		4.3.4 Third Part	23
	4.4	Conclusion	23
5	Con	tribution 2	25
	5.1	Introduction	25
	5.2	State of the Art	26
		5.2.1 Related Work 1	26
		5.2.2 Related Work 2	27
		5.2.3 Related Work 3	27
	5.3	Own Approach	28
		5.3.1 Overview	28
		5.3.2 First Part	28
		5.3.3 Second Part	29
		5.3.4 Third Part	29
	5 4	Conclusion	29
6	Con	tribution 3	31
	6.1	Introduction	31
	6.2	State of the Art	32
		6.2.1 Related Work 1	32
		6.2.2 Related Work 2	33
		6.2.3 Related Work 3	33
	6.3	Own Approach	34
		6.3.1 Overview	34
		6.3.2 First Part	34
		6.3.3 Second Part	35
		6.3.4 Third Part	35
	6.4	Conclusion	35
7	Eva	uation	37
	7.1	Introduction	37
	7.2	Experimental Validation	38
		7.2.1 Setup 1	38
		7.2.2 Setup 2	40
	7.3	Performance Evaluation	40
		7.3.1 Evaluation 1	41
		7.3.2 Evaluation 2	41
	7.4	Observational Validation	42
		7.4.1 Project 1	42
		7.4.2 Project 2	42
	7.5	Deployments	44
		7.5.1 Installation 1	44
		7.5.2 Installation 2	44
	7.6	Code Verification	44
	, .0	Code (Cimounon	

	7.7	Comparative Analysis
		7.7.1 Requirement Evaluation
		7.7.2 Comparison with Other Approaches
	7.8	Conclusion
8	Sun	nmary and Further Work 49
	8.1	Overview
	8.2	Conclusions and Impact
	8.3	Outlook
A	Spe	cifications
	A.1	Specification 1
		Specification 2
В	Test	Results
	B.1	Conformance Results
	B.2	Performance Results
		B.2.1 Histograms
		B.2.2 Lineplots
A	crony	vms V
G	lossa	ry
Bi	bliog	graphy
In	dex	XI

LIST OF FIGURES

1.1 1.2 1.3 1.4 1.5 1.6	Example (based on [0])	. 2 . 3 . 3 . 4
	Related area 1 within the structure of research	. 9 11
	More detailed overview of the requirements	
	Placement of contribution 1 in the structure of research	20
5.1 5.2 5.3	Placement of Contribution 2 in the structure of research	26
6.1 6.2 6.3	Placement of Contribution 3 in the structure of research	32
7.1 7.2 7.3 7.4	Choice of verification and validation techniques [0]	38 41
8.1 8.2	Placement of the outlook in the structure of research	
B.2	Test results (page 1)	IV

xii	LIST OF FIGURES
B.4 Lineplot of the lines	IV

LIST OF LISTINGS

4.1	Listing related to related work 1 for contribution 1
4.2	Listing related to related work 2 for contribution 1
4.3	Listing related to related work 3 for contribution 1
5.1	Listing related to related work 1 for Contribution 2
5.2	Listing related to related work 2 for Contribution 2
5.3	Listing related to related work 3 for Contribution 2
6.1	Listing related to related work 1 for Contribution 3
6.2	Listing related to related work 2 for Contribution 3
6.3	Listing related to related work 3 for Contribution 3
7.1	Experiment 1
A.1	Specification 1
A.2	Specification 2

LIST OF TABLES

3.1	Requirements from stakeholder 1 perspective .								10
3.2	Requirements from stakeholder 2 perspective .								1
3.3	Requirements from stakeholder 3 perspective $$.								1
7.1	Sideways table								39
7.2	Mapping requirements against own approach .								4:
7.3	Comparison of related work with own approach								40

CHAPTER 1

INTRODUCTION

5	1.1	Background and Motivation
	1.2	Problem Statement
	1.3	Assumptions and Scope
	1.4	Objectives and Contributions
	1.5	Methodology and Outline
10		

1.1 Background and Motivation

Research Context: Foo

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Research Area: Bar

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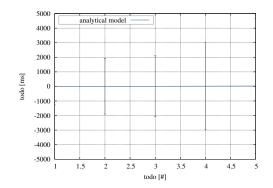


Figure 1.1: Example (based on [0])

((todo: write about the application area [0])) Lorem ipsum dolor sit amet, consectetur Application Area: Foo Fooli

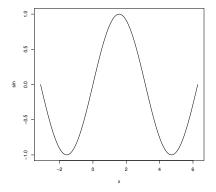


Figure 1.2: Another example [0]

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((todo: write about the taxonomy and Attributed Based Access Control (ABAC) [0])) Taxonomy

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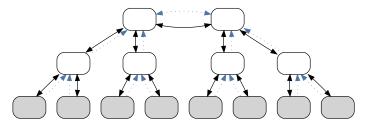


Figure 1.3: Taxonomy

1.2 Problem Statement

State of the Aort

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Synopsis

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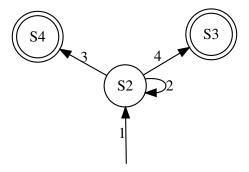


Figure 1.4: Relationship between issues

1.3 **Assumptions and Scope**

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((todo: write about the research scope — Figures 1.1, 1.2 and 1.4)) Lorem ipsum Research Scope

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1.4 **Objectives and Contributions**

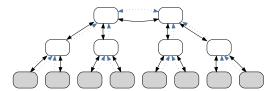


Figure 1.5: Structure of research

((todo: write about the research objectives and DBpedia [0] and Figure 1.5)) Lorem Research Objectives & Contribut

1.5 **Methodology and Outline**

((todo: write about the research outline and Figure 1.6. Summarize Chapters 1 to 8.))

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¹http://dbpedia.org

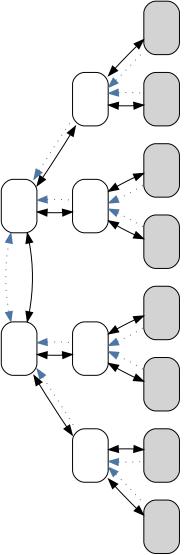


Figure 1.6: Workflow of the research and structure of the thesis

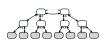
CHAPTER 2

STATE OF THE ART

85		
	2.1	Introduction
	2.2	Related Area 1
		2.2.1 Specific Example 1
90		2.2.2 Specific Example 2
		2.2.3 Specific Example 3
	2.3	Related Area 2
		2.3.1 Specific Example 1
		2.3.2 Specific Example 2
95	2.4	Related Area 3
		2.4.1 Specific Example 1
		2.4.2 Specific Example 2
	2.5	Conclusion

2.1 Introduction

Overview ((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure



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2.2 Related Area 1

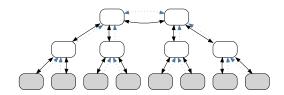


Figure 2.1: Related area 1 within the structure of research

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2.2.1 Specific Example 1

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Specific Example 2

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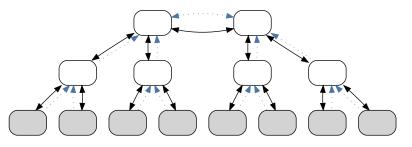


Figure 2.2: Comparison of Example 2 and Example 3 (based on [0])

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2.2.3 Specific Example 3

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Related Area 2 2.3

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2.3.1 Specific Example 1

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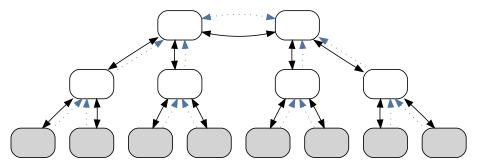


Figure 2.3: Related Area 2

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2.3.2 Specific Example 2

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2.4 Related Area 3

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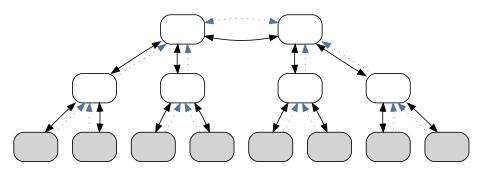


Figure 2.4: Related Area 3

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2.4.1 Specific Example 1

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2.4.2 **Specific Example 2**

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305 2.5 Conclusion

Summary

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Next chapter

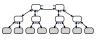
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REQUIREMENT ANALYSIS

	3.1	Introduction	15
335	3.2	Stakeholder 1	16
	3.3	Stakeholder 2	16
	3.4	Stakeholder 3	17
	3.5	Conclusion	17

3.1 Introduction

Overview ((todo: write about Figure 3.1)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.



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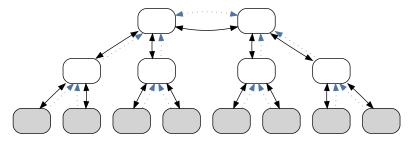


Figure 3.1: More detailed overview of the requirements

Structure of Research

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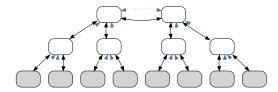


Figure 3.2: Placement of the requirement section in the structure of research

3.2 Stakeholder 1

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Table 3.1: Requirements from stakeholder 1 perspective

#	Description
U1: Foo	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.
U2: Bar	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Stakeholder 2 3.3

((todo: write about Table 3.2)) Lorem ipsum dolor sit amet, consectetur adipisicing Table 3.2

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Table 3.2: Requirements from stakeholder 2 perspective

#	Description
S1: Foo	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.
S2: Bar	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

3.4 Stakeholder 3

Table 3.3 ((todo: write about Table 3.3)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Table 3.3: Requirements from stakeholder 3 perspective

#	Description
T1: Foo	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.
T2: Bar	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

3.5 Conclusion

Summary

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Takeaway 1

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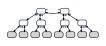
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CONTRIBUTION 1

400	4.1	Introduction
	4.2	State of the Art
		4.2.1 Related Work 1
		4.2.2 Related Work 2
405		4.2.3 Related Work 3
	4.3	Own Approach
		4.3.1 Overview
		4.3.2 First Part
		4.3.3 Second Part
410		4.3.4 Third Part
	4.4	Conclusion

Introduction 4.1

Overview ((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing



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Structure of Research

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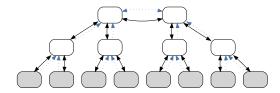


Figure 4.1: Placement of contribution 1 in the structure of research

4.2 State of the Art

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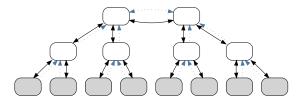


Figure 4.2: Relationship of contribution 1 to related work

4.2.1 **Related Work 1**

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Listing 4.1: Listing related to related work 1 for contribution 1

```
class HelloWorld {
1
2
       private final static String MESSAGE="Hello_World!";
                                                                            450
3
          public static void main(String[] args) {
4
          System.out.println(MESSAGE);
5
          }
```

Related Work 2

4.2.2

Overview

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465 Issues

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Listing 4.2: Listing related to related work 2 for contribution 1

```
class HelloWorld {
   private final static String MESSAGE="Hello_World!";
   public static void main(String[] args) {
      System.out.println(MESSAGE);
   }
}
```

4.2.3 Related Work 3

Overview

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495

Listing 4.3: Listing related to related work 3 for contribution 1

```
class HelloWorld {
private final static String MESSAGE="Hello⊔World!";
```

```
3
           public static void main(String[] args) {
4
           System.out.println(MESSAGE);
                                                                              500
5
6
   }
```

4.3 Own Approach

4.3.1 Overview

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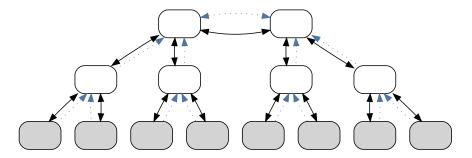


Figure 4.3: Contribution 1 goal

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4.3.2 First Part 520

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Integration

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535 4.3.3 Second Part

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550 **4.3.4** Third Part

Overview

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65 4.4 Conclusion

Summary

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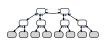
CONTRIBUTION 2

	5.1	Introduction	
595	5.2	State of the Art	
		5.2.1 Related Work 1	
		5.2.2 Related Work 2	
		5.2.3 Related Work 3	
	5.3	Own Approach	
600		5.3.1 Overview	
		5.3.2 First Part	
		5.3.3 Second Part	
		5.3.4 Third Part	
605 —	5.4	Conclusion	

5.1 Introduction

Overview

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Structure of Research

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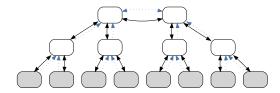


Figure 5.1: Placement of Contribution 2 in the structure of research

5.2 State of the Art

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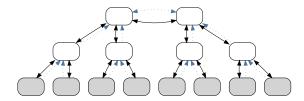


Figure 5.2: Relationship of Contribution 2 to related work

5.2.1 **Related Work 1**

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640

Listing 5.1: Listing related to related work 1 for Contribution 2

```
class HelloWorld {
1
2
       private final static String MESSAGE="Hello_World!";
3
          public static void main(String[] args) {
4
          System.out.println(MESSAGE);
                                                                            645
5
          }
```

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Issues

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Listing 5.2: Listing related to related work 2 for Contribution 2

```
1 class HelloWorld {
2 private final static String MESSAGE="Hello_World!";
3 public static void main(String[] args) {
4 System.out.println(MESSAGE);
5 }
670 5 }
```

5.2.3 Related Work 3

Overview

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Issues

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Listing 5.3: Listing related to related work 3 for Contribution 2

```
1 class HelloWorld {
2 private final static String MESSAGE="Hello⊔World!";
```

5.3 Own Approach

5.3.1 Overview

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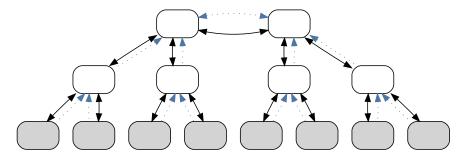


Figure 5.3: Contribution 2 goal

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5.3.2 First Part

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Integration

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5.3.3 Second Part

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Approach

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5.3.4 Third Part

Overview

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Approach

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Integration

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5.4 Conclusion

Summary

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Takeaway 1

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CONTRIBUTION 3

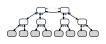
785		
	6.1	Introduction
	6.2	State of the Art
		6.2.1 Related Work 1
790		6.2.2 Related Work 2
		6.2.3 Related Work 3
	6.3	Own Approach
		6.3.1 Overview
		6.3.2 First Part
795		6.3.3 Second Part
		6.3.4 Third Part
	6.4	Conclusion

6.1 Introduction

Overview

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Structure of Research

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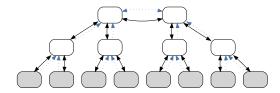


Figure 6.1: Placement of Contribution 3 in the structure of research

6.2 State of the Art

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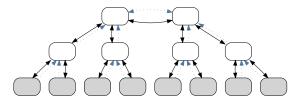


Figure 6.2: Relationship of Contribution 3 to related work

6.2.1 **Related Work 1**

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Listing 6.1: Listing related to related work 1 for Contribution 3

```
class HelloWorld {
1
2
      private final static String MESSAGE="Hello_World!";
3
          public static void main(String[] args) {
4
          System.out.println(MESSAGE);
5
          }
```

6.2.2 Related Work 2

Overview

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Listing 6.2: Listing related to related work 2 for Contribution 3

```
class HelloWorld {
    private final static String MESSAGE="Hello_World!";
    public static void main(String[] args) {
        System.out.println(MESSAGE);
    }
}
```

6.2.3 Related Work 3

Overview

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Listing 6.3: Listing related to related work 3 for Contribution 3

```
1 class HelloWorld {
2 private final static String MESSAGE="Hello_World!";
```

Chapter 6

```
3
           public static void main(String[] args) {
                                                                              885
4
           System.out.println(MESSAGE);
5
6
   }
```

Own Approach

900

6.3.1 Overview

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((todo: write about Figure 6.3)) Lorem ipsum dolor sit amet, consectetur adipisicing

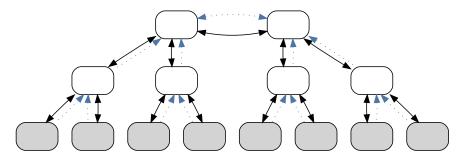


Figure 6.3: Contribution 3 goal

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6.3.2 First Part

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Integration

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6.3.3 Second Part

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Approach

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Integration

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6.3.4 Third Part

Overview

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940 Approach

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Integration

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6.4 Conclusion

Summar

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Takeaway 1

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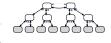
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EVALUATION

	7.1	Introduction
980	7.1	
	1.2	
		7.2.1 Setup 1
		7.2.2 Setup 2
	7.3	Performance Evaluation
985		7.3.1 Evaluation 1
		7.3.2 Evaluation 2
	7.4	Observational Validation
		7.4.1 Project 1
		7.4.2 Project 2
990	7.5	Deployments
		7.5.1 Installation 1
		7.5.2 Installation 2
	7.6	Code Verification
	7.7	Comparative Analysis
995		7.7.1 Requirement Evaluation
		7.7.2 Comparison with Other Approaches
	7.8	Conclusion
1000		

7.1 Introduction

Overview ((todo: write about Figure 7.1)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud experiention ullumas laboris pici ut aliquin ax as compando consequent



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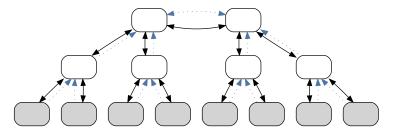


Figure 7.1: Choice of verification and validation techniques [0]

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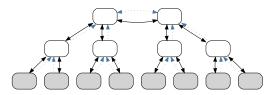


Figure 7.2: Placement of the evaluation in the structure of research

7.2 Experimental Validation

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7.2.1 Setup 1

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Table 7.1: Sideways table

Experiment 1	Experiment 2	Experiment 3	Experiment 4	Experiment 5	Experiment 6	Experiment 7
САТСН	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER
CATCH	ME	IF	YOU	CAN	NOW	OR NEVER

$$t_{fw}^{p_d}(d) = \max_{d}(t_{child_i})$$

$$t_{db}^{p_d}(d) = \sum_{i=1}^{d} t_{db_i}$$

$$t_{pc}^{p_d}(n,d) = \begin{cases} t_{pc}(d) + c(n) & \text{if } d = 1, \\ t_{pc}(d) + c(n) + \max(t_{avail}(d)) & \text{if } d > 1. \end{cases}$$
(7.1)

((todo: write about Listing 7.1)) Lorem ipsum dolor sit amet, consectetur adipisicing Example

Listing 7.1: Experiment 1

```
1040
   class HelloWorld {
2
       private final static String MESSAGE="Hello_World!";
3
           public static void main(String[] args) {
4
           System.out.println(MESSAGE);
5
           }
                                                                              1045
   }
6
```

7.2.2 Setup 2

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7.3 **Performance Evaluation**

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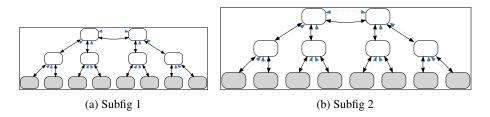


Figure 7.3: Sub Figures

7.3.1 **Evaluation 1**

Setup 1070

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Cost Metrics

1075

1080

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Optimizing

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Performance Comparison

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7.3.2 **Evaluation 2**

Setup 1090

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Response Times

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• In: 159 ms \pm 21 ms (95% CI)

• *Out*: 33 ms \pm 5 ms (95% CI)

• Between: 238 ms \pm 9 ms (95% CI)

• After: $45 \text{ ms} \pm 1 \text{ ms} (95\% \text{ CI})$

• *Under*: 215 ms \pm 2 ms (95% CI) • Over: 148 ms \pm 3 ms (95% CI)

1100

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7.4 **Observational Validation**

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7.4.1 **Project 1**

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Project 2 7.4.2

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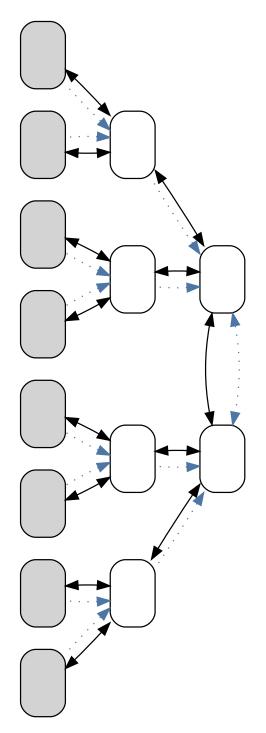


Figure 7.4: Sideways figure

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7.5 **Deployments**

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7.5.1 **Installation 1**

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7.5.2 **Installation 2**

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Code Verification 7.6

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Continuous Integration

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Test Coverage

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7.7 Comparative Analysis

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7.7.1 Requirement Evaluation

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Table 7.2: Mapping requirements against own approach

Requirements	Approach
U1 (Foo)	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.
U2 (Bar)	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Requirements	Approach
S1 (Foo)	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.
S2 (Bar)	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.
T1 (Foo)	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.
T2 (Bar)	((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Comparison with Other Approaches 7.7.2

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((todo: write about Table 7.3)) Lorem ipsum dolor sit amet, consectetur adipisicing Table 7.3

Table 7.3: Comparison of related work with own approach

Requirements Related Related Related Related Related Own 2 3 4 5 Approach U1 U2 (+)**(-)** (+++)(++)**(0) (0)**

Requirements	Related 1	Related 2	Related 3	Related 4	Related 5	Own Ap- proach
(ABAC)	ABAC v3, ABAC ABAC	ABAC v2, ABAC, native ABAC	ABAC	native ABAC	ABAC ABAC v2	ABAC v3, ABAC, ABAC, native ABAC, native
T1 (Details)	(o) via foo	(++) by bar / role-foo	_	_	(++) bar / foo	(+) foo-bar
S1 S2 T2 (Barli)	(+) via barli	(+) via fooli	_	(+) via bar-foo	(+) via foo-bar	(+) via bar-bar

7.8 Conclusion

Sumna20y

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Takeaway 1

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 $Takeaway\ 2$

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Takeaway 3

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Next chapter

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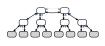
SUMMARY AND FURTHER WORK

	8.1	Overview	49
	8.2	Conclusions and Impact	49
1250	8.3	Outlook	50

8.1 Overview

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8.2 Conclusions and Impact

Context ((todo: write)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis

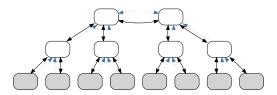


Figure 8.1: Placement of the outlook in the structure of research

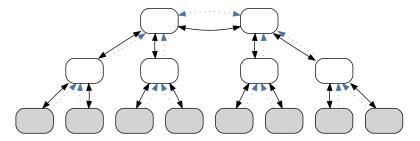


Figure 8.2: Area 1 [0]

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8.3 **Outlook** 1285

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Application Ansas4

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APPENDIX A

SPECIFICATIONS

A.1 Specification 1

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Listing A.1: Specification 1

```
class HelloWorld {
   private final static String MESSAGE="Hello_World!";
   public static void main(String[] args) {
      System.out.println(MESSAGE);
   }
}
```

A.2 Specification 2

((todo: write about Listing A.2)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Listing A.2: Specification 2

```
1 class HelloWorld {
```

```
private final static String MESSAGE="Hello_World!";

public static void main(String[] args) {
    System.out.println(MESSAGE);
}
```

APPENDIX B

TEST RESULTS

B.1	Conformance Results	III
B.2	Performance Results	IV
	B.2.1 Histograms	IV
	B.2.2 Lineplots	IV

B.1 Conformance Results

Overview ((todo: write about Figures B.1 and B.2)) Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

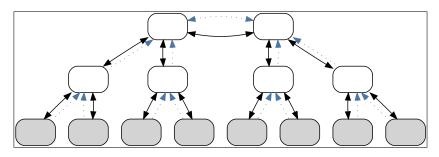


Figure B.1: Test results (page 1)

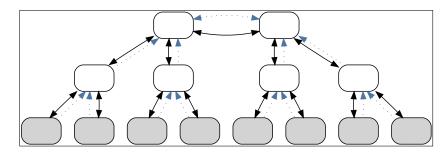


Figure B.2: Test results (page 2)

B.2 Performance Results

B.2.1 Histograms

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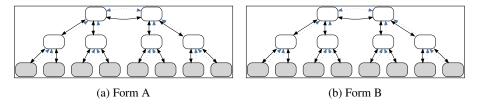


Figure B.3: Histogram of Forms

B.2.2 Lineplots

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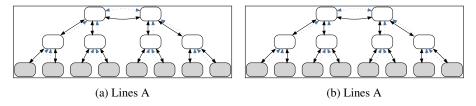


Figure B.4: Lineplot of the lines

ACRONYMS

ABAC	Attributed Based Access Control.	2

GLOSSARY

Foo

Bar.

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[p1] E. Yuan and J. Tong. "Attributed based access control (ABAC) for Web services". English. In: *International Conference on Web Services (ICWS)*. IEEE, 2005, p. 569. ISBN: 0-7695-2409-5. DOI: 10.1109/ICWS.2005.25 (cit. on p. 2).

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[m1] S. Auer, C. Bizer, G. Kobilarov, J. Lehmann, R. Cyganiak, and Z. Ives. "DB-pedia: A Nucleus for a Web of Open Data". In: *The Semantic Web (ISWC)*. Springer, 2007, pp. 722–735. DOI: 10.1007/978-3-540-76298-0_52 (cit. on p. 4).

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[x1] H. Karimi and M. Hashemi. "Accessible Wayfinding Testbed: Infrastructure and Components". In: 10th EAI International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities. Vol. 15. 2. Canada: ACM, June 2015, pp. 1–8. ISBN: 978-1-63190-070-9. DOI: 10.4108/ icst.tridentcom.2015.259709.

INDEX

В
Bar
C
Contribution 119Contribution 225Contribution 331
E
Evaluation
F
Foo
R
Related Area
S
SotA.7Specification 1.ISpecification 2.I
T
Taxonomy
V
Validation