



FAKULTÄT FÜR INFORMATIK

DER TECHNISCHEN UNIVERSITÄT MÜNCHEN

Master Thesis in Informatics

Adding C++ Support to MBEDDR

Zaur Molotnikov





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C++ Unterstützung für MBEDDR

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Ich versichere, dass ich diese Diplomarbeit selbständig verfasst und nur die angegebenen Quellen und Hilfsmittel verwendet habe.

München, den 15. September 2013

Zaur Molotnikov

Acknowledgments

If someone contributed to the thesis... might be good to thank them here.

Abstract

An abstracts abstracts the thesis!

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Outline of the Thesis

Part I: Introduction and Theory

CHAPTER 1: INTRODUCTION

This chapter presents an overview of the thesis and its purpose. Furthermore, it will discuss the sense of life in a very general approach.

CHAPTER 2: THEORY

No thesis without theory.

Part II: The Real Work

CHAPTER 3: OVERVIEW

This chapter presents the requirements for the process.

Part I.

Introduction and Theory

1. Introduction

Here starts the thesis with an introduction. Please use nice latex and bibtex entries [1]. Do not spend time on formating your thesis, but on its content.

1.1. Latex Introduction

There is no need for a latex introduction since there is plenty of literature out there.

Part II.

The Second Part

2. Structure

Here the structure is going to be give

2.1. Structure Itself

Structure, now as a list

1. Problem description
 - a) DSLs and Projectional Editing
 - b) MBEDDR Project
 - c) C++ Support in MBEDDR (motivation)
 - d) Related Work
2. C++ Implementation
 - a) Differences between C and C++
 - i. Reference Type and Boolean Type
 - ii. Modules Support
 - iii. Object Oriented Approach Support
 - b) Classes and Member Access Control
 - i. Access Control in Class
 - ii. Inheritance and Access Control
 - iii. Friends
 - c) Namespaces
 - i. Namespace Resolution Operation
 - ii. Member Search Strategy
 - iii. Reenterability
 - d) Operator Overloading
 - i. Extension of Type System
 - ii. ... More here ...
 - e) Templates
 - i. Textual Nature of Templates in C++
 - ii. Concepts
3. Conclusion

Appendix

A. Detailed Descriptions

Here come the details that are not supposed to be in the regular text.

Bibliography

- [1] Leslie Lamport. *LaTeX : A Documentation Preparation System User's Guide and Reference Manual*. Addison-Wesley Professional, 1994.