



Pedro Santos Rodrigues

Bachelor in Computer Science

Accelerating SQL with Complex Visual Querying

Dissertation plan submitted in partial fulfillment
of the requirements for the degree of

Master of Science in
Computer Science and Engineering

Adviser: Teresa Romão, Assistant Professor,
NOVA University of Lisbon

Co-advisers: Rui Nóbrega, Assistant Professor,
NOVA University of Lisbon
Tiago Simões, Principal Product Designer,
OutSystems



FACULDADE DE
CIÊNCIAS E TECNOLOGIA
UNIVERSIDADE NOVA DE LISBOA

January, 2020

ABSTRACT

The dissertation must contain two versions of the abstract, one in the same language as the main text, another in a different language. The package assumes that the two languages under consideration are always Portuguese and English.

The package will sort the abstracts in the appropriate order. This means that the first abstract will be in the same language as the main text, followed by the abstract in the other language, and then followed by the main text. For example, if the dissertation is written in Portuguese, first will come the summary in Portuguese and then in English, followed by the main text in Portuguese. If the dissertation is written in English, first will come the summary in English and then in Portuguese, followed by the main text in English.

The abstract should not exceed one page and should answer the following questions:

- What's the problem?
- Why is it interesting?
- What's the solution?
- What follows from the solution?

Keywords: Keywords (in English) ...

RESUMO

Independentemente da língua em que está escrita a dissertação, é necessário um resumo na língua do texto principal e um resumo noutra língua. Assume-se que as duas línguas em questão serão sempre o Português e o Inglês.

O *template* colocará automaticamente em primeiro lugar o resumo na língua do texto principal e depois o resumo na outra língua. Por exemplo, se a dissertação está escrita em Português, primeiro aparecerá o resumo em Português, depois em Inglês, seguido do texto principal em Português. Se a dissertação está escrita em Inglês, primeiro aparecerá o resumo em Inglês, depois em Português, seguido do texto principal em Inglês.

O resumo não deve exceder uma página e deve responder às seguintes questões:

- Qual é o problema?
- Porque é que ele é interessante?
- Qual é a solução?
- O que resulta (implicações) da solução?

E agora vamos fazer um teste com uma quebra de linha no hífen a ver se a \LaTeX duplica o hífen na linha seguinte...

zzzz zzz zzzz zzz zzzz zzz zzzz zzz zzzz zzz zzzz zzz zzzz zzz zzzz zzz zzzz comentar-
-lhe zzz zzzz zzz zzzz

Sim! Funciona! :)

Palavras-chave: Palavras-chave (em Português) ...

CONTENTS

List of Figures	ix
List of Tables	xi
Listings	xiii
1 Introduction	1
1.1 Context	1
1.1.1 OutSystems Context	1
1.1.2 Aggregates Context	1
1.2 Motivation	1
1.3 Problem Description	1
1.4 Research Questions	1
1.5 Main Expected Contributions	1
1.6 Structure	1
2 Related Work	3
2.1 OutSystems Background	3
2.2 Techniques	3
2.3 Technologies	3
2.4 Commercial Applications	3
3 Proposed Solution	5
3.1 Requirements Analysis	5
3.2 Proposed Implementation	5
3.3 Scope Definition	5
4 Work Plan	7

LIST OF FIGURES

LIST OF TABLES

LISTINGS

INTRODUCTION

This project was developed on a particular environment, so this chapter will introduce this thesis, starting by all the contextualization about the company, the product, and his section which will be the nuclear focus of this thesis, followed by describing the motivation behind it. In addition, will be presented an overview of the problem, such expected contributions and the structure of the document.

1.1 Context

1.1.1 OutSystems Context

1.1.2 Aggregates Context

1.2 Motivation

1.3 Problem Description

1.4 Research Questions

1.5 Main Expected Contributions

1.6 Structure

The remaining chapters of this thesis are organized as follows:

- Chapter 2 - [Related Work](#): presents a short description of the OutSystems Platform, as well as a description of the existing techniques that already exist on the context of the main topic of this thesis - data visualization and visual querying. Besides,

will be enumerated other commercial applications which can have relevant content for this study;

- Chapter 3 - **Proposed Solution**: describes the proposed solution, starting with a requirements analysis, followed by a more detailed explanation about the problem, and finally with a definition of the development scope to understand what problem will be tackled on detail;
- Chapter 4 - **Work Plan**: includes a planning of the total work inherent. Thus, will be presented an overview of the tasks that was done on this dissertation plan, together with the preview of the work which will be the focus of the second phase of the thesis, the elaboration.

CHAPTER
2

RELATED WORK

- 2.1 OutSystems Background
- 2.2 Techniques
- 2.3 Technologies
- 2.4 Commercial Applications

PROPOSED SOLUTION

3.1 Requirements Analysis

3.2 Proposed Implementation

3.3 Scope Definition

CHAPTER



WORK PLAN

