Thesis Report

Requirement Elicitation Issues and Challenges in Pakistani Software Houses

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Submitted By:

Ambreen Liaqat 15007114014

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Supervised By:

Mr. Amjad Hussain Zahid


بِسْمِ اللَّهِ الرَّحْمَٰنِ الرَّحِيمِ

FINAL APPROVAL

It is certified that the research work presented in this thesis entitled "Requirement Elicitation Issue and Challenges in Pakistan Software Houses" was conducted by Ambreen Liaqat under the supervision of Mr. Amjad Hussain Zahid at the University of Management and Technology Lahore, Pakistan in August 2017 to fulfill the requirement of the degree in MS Software Engineering.

1. **Supervisor**

   Mr. Amjad Hussain Zahid _____

   Assistant Professor,

   School of Systems and Technology,

   University of Management and Technology, Lahore

2. **Director Graduate Studies**

   Dr. Shoaib Farooq _____

   HEC approved PhD Supervisor,

   Associate Processor,

   School of Systems and Technology,

   University of Management and Technology, Lahore

3. **Dean SST**

   Dr. Shaukat Iqbal, _____

   Professor,

   School of Systems and Technology,

   University of Management and Technology, Lahore

DECLARATION

I Ambreen Liaqat ID# 15007114014 Session 2015-2017 here by certify that this thesis is being submitted in partial fulfillment of the requirement for the MS degree in Software Engineering. This thesis is my original work and the data/ material presented here has not been used for the acquisition of any other degree from any institution.

Signature: _____

Date: _____

Ambreen Liaqat

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PREFACE

This thesis was prepared as a partial fulfillment of the requirements of acquiring the degree Master of Science in Software Engineering MS (SE), in the School of System and Technology, SST, located at the University of Management and Technology (UMT).

The thesis consists of six chapters. Chapter 1 explains the introduction of the thesis related to the Requirement Elicitation Issues and Challenges in Pakistan Software Houses. Chapter 2 describes the structure of thesis. Chapter 3 provides a review of the literature, the key concepts to lay the conceptual and theoretical foundation for this study. Chapter 4 presents Research methodology in which we explain the steps by which we have done our research. Chapter 5 describes the analysis and data collection which we have gathered from different software houses of Pakistan. Chapter 6 explains the discussion, conclusion and future work.

ABSTRACT

Requirement elicitation is the actual description of the system that the software developers follow in the earlier stages of development process. It is one of the most important and primary part in developing a new application or project. It describes what a system should do and what it is capable of doing. Many software systems fail due to the wrong requirement elicitation practices or poor requirement elicitation. Without the help of elicitation, it is impossible to find out the needs and the requirements of the user. In Pakistan software industry, requirement elicitation practices are not followed. In this thesis, we have analyzed the current requirement elicitation practices which are being adopted in the Pakistan software industry. We have also analyzed and summarized the issues and challenges being faced by the Pakistan software industry due to the poor requirement elicitation process. We have identified some issues in requirement elicitation which are the change of scope, volatility problem, change in user needs, understanding problem, uncertain requirements, communication problem and missing requirements.

Chapter 1

Introduction

CHAPTER 1

1.1. Requirement Engineering

Today organizations depend on the software applications for their day to day operations. The software development is based on the requirement engineering (RE) process because of the requirement engineering is the backbone of any software. The main goal of requirement engineering is to provide the satisfaction to users and customers regarding the desired software system at minimum cost and within time.

Requirement engineering is the combination of different methods and techniques which are used to gather the requirements, analyzing to them, management of these requirements and verification etc. The requirement engineer gathers the requirements from different resources and implements these requirements in the phase of development. The level of complexity in requirement engineering is very high that arises in its different phases.