

SOFTWARE DEVELOPMENT : PRINCIPLES, PATTERNS AND PRACTICES

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P R E F A C E

Software engineering is an engineering field related to the process of software and software product development by using various defined and some scientific principles and methods. The use of software engineering helps to make an efficient and accurate software product. Software project development and software product development is part of software engineering that has wide in the field of development and engineering as it involves planning, analysis, design, coding, testing and many other factors related to the software product and software project. This book is made by recognizing and analyzing the basic concepts of software product, software design and software process, software project processing and design complexities, testing, maintenance etc. By reading this book, the reader will be able to understand the basic concepts of the software engineering and their relations with the software engineering concepts. Software engineering plays a vital role in the process of the successful software project from the analysis phase to the maintenance phase and it has great importance for developers and engineers including various stakeholders also.

 *Sarbjeet Singh*

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Firstly, I would like to thank the god for giving me the ability to make this book, which is related to the stream of computer science and engineering. I would like to thanks for the people who gave me continuous support and help for making this book complete in numerous ways by providing their suggestions and assistance from the day when the idea of the book came. I am thankful to publishers for the process of preparing the manuscript fast with good quality and excellence without any kind of delays. I would like to thanks for the VSRD Academic Publishing (A Division of Visual Soft India Private Limited) for the making book with good style and design. I hope that this book will be helpful for the readers in their all going on researches, to understand basics of the software engineering including various fields of the software projects and software product like maintenance of the software, testing, design, development and many more aspects of the software. I put all of my best efforts for making this book of software engineering. This is possible by the grace of God. I hope that this book will be helpful for various authors, researchers and students to perform research, in study and for learning some basics of the software engineering including software processes. This book has been written by judging the various kinds of the difficulties being faced by the students of BCA, MCA, M.Sc.(IT).

 Sarbjeet Singh

CONTENTS

CHAPTER 1	
INTRODUCTION TO SOFTWARE ENGINEERING	1
CHAPTER 2	
SOFTWARE REQUIREMENT SPECIFICATION.....	9
CHAPTER 3	
SOFTWARE DESIGN.....	23
CHAPTER 4	
SOFTWARE USER INTERFACE DESIGN	45
CHAPTER 5	
SOFTWARE DESIGN COMPLEXITY	57
CHAPTER 6	
PROGRAMMING METHODS, DOCUMENTATION AND CHALLENGES IN SOFTWARE IMPLEMENTATION	67
CHAPTER 7	
SOFTWARE TESTING	77
CHAPTER 8	
INTRODUCTION TO SOFTWARE MAINTENANCE.....	91
CHAPTER 9	
CASE TOOLS	103
CHAPTER 10	
SOFTWARE CONFIGURATION MANAGEMENT	111
CHAPTER 11	
SOFTWARE QUALITY ASSURANCE.....	137

