

Final Year Project (BS,ADP) Guidelines for Documentation

Title and Description

Title Page

Acknowledgement Page

Dedication

Table of Contents

List of Tables

List of Figures

Chapter No 1: Introduction to the Problem

1.1 Introduction

1.2 Background

1.3 Purpose

1.4 Scope

1.5 Objective

1.6 Intended Audience and Reading Suggestions

1.7 Document Conventions

Chapter No 2: Software Requirement Specification

2.1 Overall Description

2.1.1 Product Perspectives

2.1.2 Product Features

2.1.3 Design and Implementation Constraints

2.1.4 Assumption and Dependencies

2.2 System Features

2.2.1 System Feature 1

2.2.2 System Feature 2(and so on)

2.3 External Interface Requirements

2.3.1 User Interfaces

2.3.2 Hardware Interfaces

2.3.3 Software Interfaces

2.3.4 Communications Interfaces

2.4 Other Nonfunctional Requirements

2.4.1 Performance Requirements

2.4.2 Safety Requirements

2.2.3 Security Requirements

Chapter No 3: Analysis (use case model)

3.1 Identifying Actors and Use Cases using Textual Analysis

3.2 Forming Use Case Diagram with Candidate and Use Cases

3.3 Describe the Events Flow for Use Case

Chapter No 4: Design

4.1 Architecture Diagram

4.2 ERD with Data Dictionary

4.3 Data Flow Diagram (Level 0 and Level 1)

4.4 Class Diagram

4.5 Object Diagram

4.6 Sequence Diagram

4.7 Activity Diagram

4.8 Collaboration Diagram

4.9 State Transition Diagram

Chapter No 5: Implementation

5.1 Component Diagram

5.2 Deployment Diagram

5.3 Database Architecture (1- Tier, 2-Tier, 3- Tier Architecture)

Chapter No 6: Testing (Software Quality Attributes)

6.1 Test Case Specification

6.2 Black Box Test Cases:

6.2.1 **BVA** or Boundary Value Analysis

6.2.2 Equivalence Class Partitioning

6.2.3 State Transition Testing

6.2.4 Decision Table Testing

6.2.5 Graph Base Testing

6.3 White Box Testing:

6.3.1 Statement Coverage

6.3.2 Branch Coverage

6.3.3 Path Coverage

Chapter No 7: Tools and Technologies

7.1 Programming Languages

7.2 Operating Environment

Appendix A: User documentation

Appendix B: Source Code