

IST Thesis Documentation Outline

IST-MET: Chapters 1 to 3 (3.1 Analysis)

THS-IS1: 1st Round: Chapters 1 to 3 (3.2 Design, excluding Scripts); 2nd Round: Chapters 1 to 3 (3.2 Design, including Scripts)

THS-IS2: No Document to be Submitted

THS-IS3: All Chapters

Title Page

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Abstract

1.0 Research Background and Analysis

1.1 Introduction

1.2 Background of the Research Area

1.3 Statement of Problem

1.4 Conceptual Framework

Include a diagram and discussion of how the proposed system applied various theories, strategies and concepts.

1.5 Research Objectives

1.6 Significance of the Study

1.7 Scope and Limitations

2.0 Review of Related Literature

2.1 Related Concepts and Theories

2.2 Related Systems (A minimum of 5 systems must be reviewed)

2.2.1 System Name 1

2.2.2 System Name 2

2.2.3 System Name 3

2.2.4 System Name 4

2.2.5 System Name 5

2.2.6 Comparative Table

Include a narrative of the analysis or comparison after the table; include findings/ shortcomings / areas for innovation.

Table 2-#: Comparative Table of Reviewed Systems

| | System Name | System Name | System Name | System Name | System Name | Proposed System |
|------------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| Feature A | ✓ | ✓ | -- | ✓ | -- | ✓ |
| Feature B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Feature X | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

3.0 Methodology

3.1 Analysis

3.1.1 Overview of the Current Learning Situation / Environment

3.1.2 Target User

Describe who the target user will be. Identify their needs / existing knowledge / learning characteristics / teaching style, etc. Include an overview of the organization or school affiliated to the target user if applicable.

3.1.3 Problem Discussion

3.1.4 Content Analysis

Table 3-#: Topic-Artifact Matrix

| Main Topic | Lessons | Artifact (Fact, Concept, Process, Procedure, Principle) |
|----------------|-------------------|---|
| I. Topic Name | Lesson Name | |
| II. Topic Name | Lesson Name | |
| | • Sub-lesson Name | |
| | • Sub-lesson Name | |

3.1.5 Mode of Delivery

Identify the options for delivery (i.e. CD, Web, Mobile, TV, etc.) and discuss the mode selected for the system. Include justification as to why this mode was selected for delivery.

3.1.6 Gantt Chart

3.1.7 Problems Encountered

3.1.8 Analysis Cost

3.2 Design

3.2.1 Topic Outline

3.2.2 Instructional Objectives

Define what the user needs to learn / teach.

- Objective 1;
- Objective 2;
- Objective 3; and
- Objective X

3.2.3 Theories and Instructional Strategies

3.2.4 Assessment and Evaluation Strategies (exempted for Teachware)

3.2.5 Multimedia Selection

Describe the multimedia needed and its instructional purpose in the system.

3.2.5.1 Text

3.2.5.2 Visuals

3.2.5.3 Audio

3.2.5.4 Video

3.2.5.5 Animation

3.2.5.6 Interactive Components

3.2.6 Instructional Design Matrix

Table 3-#: Instructional Strategy Matrix

| Main Topic | Instructional Objective | Strategy | Media |
|------------|-------------------------|----------|-------|
| | | | |

- 3.2.7 Storyboard
- 3.2.8 Screen Designs
 - Organize screens according to what is being presented.*
 - Sample hierarchy for courseware:*
 - 3.2.8.1 General Theme
 - 3.2.8.2 Main Menu
 - 3.2.8.3 Lessons
 - 3.2.8.4 Activities / Exercises
- 3.2.9 Scripts
- 3.2.10 Problems Encountered
- 3.2.11 Design Cost
- 3.3 Development
 - 3.3.1 Team Organization and Member Roles
 - 3.3.2 System Specifications
 - 3.3.2.1 Modules
 - 3.3.2.2 Features
 - 3.3.3 Tools Required
 - 3.3.4 Technical Media Specifications
 - 3.3.5 Prototypes
 - Describe the phases of development and include sample screens
 - 3.3.5.1 <Phase 1>
 - 3.3.5.2 <Phase 2>
 - 3.3.5.3 <Phase X>
 - 3.3.6 Problems Encountered
 - 3.3.7 Development Cost
- 3.4 Implementation and Testing
 - 3.4.1 Installation Requirements
 - 3.4.1.1 Hardware Requirements
 - 3.4.1.2 Software Requirements
 - 3.4.1.3 People Requirements
 - 3.4.2 User Acceptance Testing
 - 3.4.2.1 Sample Demographics
 - 3.4.2.2 Time Requirements
 - 3.4.2.3 Data Collection Methods
 - Discuss how interviews, survey, observations were conducted. Include instruments and materials in the appendix.*
 - 3.4.3 Problems Encountered (Testing)
 - 3.4.4 Implementation and Testing Cost
- 3.5 Evaluation
 - 3.5.1 Evaluation Criteria
 - 3.5.2 Results
 - 3.5.3 Analysis
 - 3.5.4 System Revisions Required
 - 3.5.5 Problems Encountered
 - 3.5.6 Total System Cost

4.0 System Outputs

Discuss how the system will be used by the user.

- 4.1 Instructional Process
 - 4.1.1 Pre-Instruction Activity
 - 4.1.2 Lesson Presentation
 - 4.1.3 Learning Activities / Exercises
- 4.2 Assessment Process
- 4.3 Additional Features

5.0 Findings, Conclusion, and Recommendations

- 5.1 Findings / Realizations
- 5.2 Conclusion
- 5.3 Recommendation

Bibliography

Personal Vitae

Resource Person(s)

Appendices