

UNIVERSITI TEKNOLOGI MARA

**ICON BASED INTERFACE DESIGN FOR ATM USING
DIRECT COMBINATION TECHNIQUE**

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ABSTRACT

ATM machine has been widely utilized and has improved a lot since its advent and the ubiquitous characteristic it owns provides the convenient to people in making their daily transaction. Despite of its convenience, there is groups of people population such as functional illiterate population that cannot make use the ATM machine due to the text representation that ATM machine uses. Thus, an alternative ATM interface that uses icons that following Direct Combination principles to replace those texts could possibly eradicate this problem. Direct Combination technique combines two or more objects to produce a new object. The technique is used to design icon based ATM interface. The objective of this research are to identify the Direct Combination principles, design the icon based ATM interface and finally demonstrate the designed interface to be used especially by functional illiterate people. The achievement of the objectives are done through review of related literatures to identify the principles of Direct Combination, design the interface based on those principles and the demonstration done using Macromedia Flash MX with Action Script programming language. The product of this research is successfully done and is hoped to assist those functional illiterate people in utilizing the ATM machine. Recommendations for future work of the icon based ATM interface are increasing the choice of transactions to be performed, incorporate animated icons and voice for better assistance.

TABLE OF CONTENTS

APPROVAL	ii
DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENTS	vi
LIST OF TABLES	viii
LIST OF FIGURES	ix

CHAPTER ONE: INTRODUCTION

1.1 Introduction	1
1.2 Research Background	1
1.3 Problem Statement.....	3
1.4 Research Objectives	4
1.5 Research Scope.....	4
1.6 Significance of Research	5
1.7 Problem and Limitation of Research.....	5
1.8 Overview of the Research.....	6
1.9 Conclusion	6

CHAPTER TWO: LITERATURE REVIEW

2.1 Introduction	7
2.2 Automated Teller Machine (ATM)	7
2.3 Visual Languages	8
2.4 Icons	9
2.4.1 Types of Icons.....	13
2.5 Human Computer Interaction	19
2.6 Direct Combination	20
2.7 Affordance Theory	24
2.8 Functional Illiterate.....	26
2.8.1 Interface Example for Functional Illiterate Web Browser.....	27
2.9 Conclusion.....	30

CHAPTER THREE: METHODOLOGY

3.1 Introduction31

3.2 Research Design of Icon-Based Interface Design for ATM using Direct Combination Technique32

3.3 Research Approach and Methodology.....34

3.3.1 Problem Assessment.....35

3.3.2 Knowledge Acquisition35

3.3.3 Data Analysis.....35

3.3.4 Design.....36

3.3.5 Demonstration36

3.3.6 Finding and Result.....37

3.4 Software Specifications37

3.5 Hardware requirement37

3.6 Conclusion.....38

CHAPTER FOUR: RESULTS AND FINDINGS

4.1 Introduction39

4.2 Direct Combination Principles39

4.2.1 Withdrawal.....40

4.2.2 Fund Transfer.....40

4.2.3 Balance Inquiry40

4.2.4 Change PIN.....41

4.3 Interface Design.....41

4.4 Interface Demonstration49

4.5 Conclusion.....57

CHAPTER FIVE: CONCLUSION AND RECOMMENDATIONS

5.1 Introduction58

5.2 Conclusion.....58

5.3 Limitation59

5.4 Recommendation.....60

REFERENCES61