

BINUS UNIVERSITY INTERNATIONAL

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Major Computer Science

Stream Multimedia

Sarjana Komputer Thesis

Semester Even Year 2008

**GAME-BASED EDUCATION IMPLEMENTATION OF
INTERACTIVE MATH EDUCATION FOR ELEMENTARY SCHOOL**

iMathics

Venez Soka

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ABSTRACT

The importance of education is indisputable nowadays and in education. There is a problem which is students tend to get bored in the classroom. Math is the basic of lots of other subjects, so to make the future education become easier, the basic math skill should be strong. Based on those two issues, lots of people develop math game-based education, but in the market there are only a few softwares that targeted for children of range of 4th to 6th grade of elementary school and using Indonesian language. The available softwares also only focusing on the teaching part, which make the children, do not like the softwares.

Because of the aforementioned problems, the writer designed a solution which is iMathics as a game based educational software that teach basic math for children of range 4th to 6th grade of elementary school, have 2 language options (Indonesian and English), and focusing on the game part. iMathics teach several basic math material which are addition, subtraction, multiplication, division, time reading, higher number, less number, and essay questions. iMathics also has 6 type of games for the children which are Balloon Shooting, Space Defender, Time Attack!, CatchIT!, TimeIT!, and The Shop Keeper. The solution has tried to address the problems and based on the result of the implementation, iMathics already add the number of software that needed by the children, and also could reduce the chance of children to get bored.

Keywords: *Educational game, Children, Basic math, Software, Flash*

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The writer realises this thesis is nowhere from perfect. Thus, any comments or suggestions are appreciated. Hopefully this thesis would bring benefits and provide additional information for the readers.

Jakarta, 14 July 2008

Venez Soka

TABLE OF CONTENTS

Cover Page	
Title Page	i
Certificate of Approval	ii
Abstract	iii
Preface	iv
Table of Contents	vi
List of Tables	x
List of Figures	xi
CHAPTER 1.....	1
1.1 Background.....	1
1.2 Scope.....	3
1.2.1 Assumption.....	4
1.2.2 Constraints.....	4
1.2.3 Proposed Approach.....	5
1.3 Aims and Benefits.....	5
1.4 Structure.....	6
CHAPTER 2.....	8
THEORITICAL FOUNDATION.....	8
2.1 Theoretical Foundation.....	8
2.1.1 Learning.....	8
2.1.2 Game-based Education.....	9

2.1.3	Game Type.....	10
2.1.4	Flow Chart.....	13
2.1.5	Use Case.....	15
2.1.5.1	Use Case Modelling.....	15
2.1.5.2	Actor.....	15
2.1.5.3	Use Case Model Diagram.....	16
2.2	Theoretical Framework.....	16
2.2.1	Psychology of Children.....	16
2.2.2	Pedagogy of Teaching Children: Children’s Learning Style.....	17
2.2.3	Importance of Color.....	19
2.2.4	Importance of Font.....	25
2.2.5	Importance of Sounds.....	27
CHAPTER 3.....		29
PROBLEM ANALYSIS.....		29
3.1	Why Children Feel Bored in the Classroom.....	29
3.2	Few Number of Mathematic Game-based Education.....	31
3.1.1.	“Mahir Matematika” Software.....	31
3.1.2.	“Anak Pintar” Software.....	34
3.3	The Focus of Mathematic Game-based Education.....	36
CHAPTER 4.....		37
SOLUTION DESIGN.....		37
4.1	Policy and Procedures.....	37
4.2	Software Used.....	38
4.3	Context Diagram.....	39

4.4	Data Flow Diagram.....	40
4.5	Process Diagram.....	43
4.5.1	Language Module.....	43
4.5.2	Start Game Module.....	45
4.5.3	Home Module.....	47
4.5.4	Learning Module.....	48
4.5.4.1	Addition Module.....	49
4.5.4.2	Subtraction Module.....	50
4.5.4.3	Multiplication Module.....	51
4.5.4.4	Division Module.....	52
4.5.4.5	Bigger or Lesser Number Module.....	53
4.5.4.6	Essay Module.....	53
4.5.4.7	Clock Reading Module.....	54
4.5.5	Games Module.....	55
4.5.5.1	Balloon Shooting Module.....	56
4.5.5.2	Space Defender Module.....	58
4.5.5.3	Time Attack! Module.....	59
4.5.5.4	CatchIT! Module.....	61
4.5.5.5	TimeIT! Module.....	63
4.5.5.6	The Shop Keeper Module.....	64
4.6	Use Case Diagram.....	67
4.7	User Interface Design.....	70
4.7.1	Input Design.....	70
4.7.2	Output Design.....	71

CHAPTER 5.....	73
SOLUTION IMPLEMENTATION.....	73
5.1 Testing Phase.....	73
5.2 System Specification.....	78
5.2.1 Hardware.....	78
5.2.2 System Software.....	79
5.3 Screen Shots.....	79
CHAPTER 6.....	88
DISCUSSION.....	88
6.1 Questionnaire Discussion.....	88
6.2 Problems versus Solution.....	105
6.3 The Upsides of iMathics.....	107
CHAPTER 7.....	108
CONCLUSION AND RECOMMENDATION.....	108
7.1 Conclusion.....	108
7.2 Recommendation.....	111
REFERENCES.....	112

LIST OF TABLES

Table 4. 1	Software Used in Making The Software.....	38
Table 4. 2	iMathics Use Case.....	70
Table 5. 1	List of Children for the User Testing.....	74
Table 6. 1	Result of Question no.10.....	98
Table 6. 2	Result of Question no.11.....	99
Table 6. 3	Result of Question Part II no.5.....	105

LIST OF FIGURES

Figure 2. 1 Flow Chart Symbols.....	14
Figure 2. 2 Example of Flow Chart.....	14
Figure 2. 3 Actor Symbol.....	15
Figure 2. 4 Example of Use Case Diagram.....	16
Figure 2. 5 Mood Colors.....	23
Figure 2. 6 CMYK Color System.....	24
Figure 2. 7 Example Using Subtractive Color Method.....	24
Figure 2. 8 RGB Color System.....	25
Figure 2. 9 Example Using Additive Method.	25
Figure 3. 1 Screenshots of Ruined Display in Mahir Matematika Software.....	33
Figure 3. 2 Screenshots of Correct Display in Mahir Matematika Software.....	33
Figure 3. 3 Screenshots of Design in Mahir Matematika Software.....	34
Figure 3. 4 Screenshots of Menu in Anak-Pintar Software.....	35
Figure 3. 5 Screenshots of Menu in Anak-Pintar Software.....	36
Figure 4. 1 iMathics Context Diagram.....	39
Figure 4. 2 Data Flow Diagram with New Player.....	40
Figure 4. 3 Data Flow Diagram with Existing Player.....	41
Figure 4. 4 Data Flow Diagram from Mini Games.....	42
Figure 4. 5 Process Diagram Language Menu.....	43
Figure 4. 6 Process Diagram Exit Page.....	44

Figure 4. 7 Process Diagram Start Game Page.....	45
Figure 4. 8 Process Diagram Start Game Page.....	46
Figure 4. 9 Process Diagram Home Page.....	47
Figure 4. 10 Process Diagram Study Page.....	48
Figure 4. 11 Process Diagram Addition Page.....	49
Figure 4. 12 Process Diagram Subtraction Page.....	50
Figure 4. 13 Process Diagram Multiplication Page.....	51
Figure 4. 14 Process Diagram Division Page.....	52
Figure 4. 15 Process Diagram Bigger or Lesser Page.....	53
Figure 4. 16 Process Diagram Essay Page.....	53
Figure 4. 17 Process Diagram Clock Reading Page.....	54
Figure 4. 18 Process Diagram Games Page.....	55
Figure 4. 19 Process Diagram Balloon Shooting Page.....	57
Figure 4. 20 Process Diagram Space Defender Page.....	58
Figure 4. 21 Process Diagram Time Attack! Page.....	60
Figure 4. 22 Process Diagram CatchIT! Page.....	61
Figure 4. 23 Process Diagram TimeIT! Page.....	64
Figure 4. 24 Process Diagram The Shop Keeper Page.....	66
Figure 4. 25 Use Case Diagram for iMathics Software.....	67
Figure 5. 1 Choose Language Screenshot.....	79
Figure 5. 2 Start Game Menu Screenshot.....	80
Figure 5. 3 New Game Page Screenshot.....	80
Figure 5. 4 Load Game Page Screenshot.....	81
Figure 5. 5 Main Menu Screen Shot.....	81

Figure 5. 6 Home Screen Shot.....	82
Figure 5. 7 Study Menu Screen Shot.....	82
Figure 5. 8 Study Page Screen Shot.....	83
Figure 5. 9 Games Menu Screen Shot.....	83
Figure 5. 10 Mini Game Menu Screen Shot.....	84
Figure 5. 11 How to Play Page Screen Shot.....	84
Figure 5. 12 Balloon Shooting Screen Shot.....	85
Figure 5. 13 Space Defender Screen Shot.....	85
Figure 5. 14 Time Attack! Screen Shot.....	86
Figure 5. 15 CatchIT! Screen Shot.....	86
Figure 5. 16 TimeIT! Screen Shot.....	87
Figure 5. 17 The Shop Keeper Screen Shot.....	87
Figure 6. 1 Result's Pie Chart of Question no.1.....	89
Figure 6. 2 Result's Pie Chart of Question no.2.....	90
Figure 6. 3 Result's Pie Chart of Question no.3.....	91
Figure 6. 4 Result's Pie Chart of Question no.4.....	92
Figure 6. 5 Result's Pie Chart of Question no.5.....	93
Figure 6. 6 Result's Pie Chart of Question no.6.....	94
Figure 6. 7 Result's Pie Chart of Question no.7.....	95
Figure 6. 8 Result's Pie Chart of Question no.8.....	96
Figure 6. 9 Result's Pie Chart of Question no.9.....	97
Figure 6. 10 Result's Pie Chart of Question Part II no.1.....	100

Figure 6. 11 Result's Pie Chart of Question Part II no.2..... 101

Figure 6. 12 Result's Pie Chart of Question Part II no.3..... 102

Figure 6. 13 Result's Pie Chart of Question Part II no.4..... 103

Figure 6. 14 Result's Pie Chart of Question Part II no.5..... 104

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iMathics**

THESIS

**Proposed as a requirement for obtaining
Sarjana degree at
Program Computer Science
Stream Multimedia
Education Level Strata-1 (Sarjana/Bachelor)**

by

Venez Soka 0800766084



BINUS UNIVERSITY INTERNATIONAL

BINUS UNIVERSITY

JAKARTA

2008

BINUS UNIVERSITY INTERNATIONAL
BINUS UNIVERSITY

Statement for readiness in attending defense examination

I, Venez Soka, hereby stated that the thesis entitled:

**GAME-BASED EDUCATION IMPLEMENTATION OF
INTERACTIVE MATH EDUCATION FOR ELEMENTARY SCHOOL**
iMathics

is truly my original work and is never brought up as a scientific paper, partly or entirely, on my name or other parties.

Venez Soka
0800766084

Supervisor's approval

I approve this thesis to be in the defense examination

14 July 2008

Huibert Andi Wenas, M.Sc
Supervisor

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TABLE OF CONTENTS

Cover Page	
Title Page	i
Certificate of Approval	ii
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Table of Contents	vi
List of Tables	x
List of Figures	xi
CHAPTER 1.....	1
1.1 Background.....	1
1.2 Scope.....	3
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1.2.2 Constraints.....	4
1.2.3 Proposed Approach.....	5
1.3 Aims and Benefits.....	5
1.4 Structure.....	6
CHAPTER 2.....	8
THEORITICAL FOUNDATION.....	8
2.1 Theoretical Foundation.....	8
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4.5.2	Start Game Module.....	45
4.5.3	Home Module.....	47
4.5.4	Learning Module.....	48
4.5.4.1	Addition Module.....	49
4.5.4.2	Subtraction Module.....	50
4.5.4.3	Multiplication Module.....	51
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4.5.4.5	Bigger or Lesser Number Module.....	53
4.5.4.6	Essay Module.....	53
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4.6	Use Case Diagram.....	67
4.7	User Interface Design.....	70
4.7.1	Input Design.....	70
4.7.2	Output Design.....	71

CHAPTER 5.....	73
SOLUTION IMPLEMENTATION.....	73
5.1 Testing Phase.....	73
5.2 System Specification.....	78
5.2.1 Hardware.....	78
5.2.2 System Software.....	79
5.3 Screen Shots.....	79
CHAPTER 6.....	88
DISCUSSION.....	88
6.1 Questionnaire Discussion.....	88
6.2 Problems versus Solution.....	105
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Figure 3. 3 Screenshots of Design in Mahir Matematika Software.....	34
Figure 3. 4 Screenshots of Menu in Anak-Pintar Software.....	35
Figure 3. 5 Screenshots of Menu in Anak-Pintar Software.....	36
Figure 4. 1 iMathics Context Diagram.....	39
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Figure 4. 3 Data Flow Diagram with Existing Player.....	41
Figure 4. 4 Data Flow Diagram from Mini Games.....	42
Figure 4. 5 Process Diagram Language Menu.....	43
Figure 4. 6 Process Diagram Exit Page.....	44

Figure 4. 7 Process Diagram Start Game Page.....	45
Figure 4. 8 Process Diagram Start Game Page.....	46
Figure 4. 9 Process Diagram Home Page.....	47
Figure 4. 10 Process Diagram Study Page.....	48
Figure 4. 11 Process Diagram Addition Page.....	49
Figure 4. 12 Process Diagram Subtraction Page.....	50
Figure 4. 13 Process Diagram Multiplication Page.....	51
Figure 4. 14 Process Diagram Division Page.....	52
Figure 4. 15 Process Diagram Bigger or Lesser Page.....	53
Figure 4. 16 Process Diagram Essay Page.....	53
Figure 4. 17 Process Diagram Clock Reading Page.....	54
Figure 4. 18 Process Diagram Games Page.....	55
Figure 4. 19 Process Diagram Balloon Shooting Page.....	57
Figure 4. 20 Process Diagram Space Defender Page.....	58
Figure 4. 21 Process Diagram Time Attack! Page.....	60
Figure 4. 22 Process Diagram CatchIT! Page.....	61
Figure 4. 23 Process Diagram TimeIT! Page.....	64
Figure 4. 24 Process Diagram The Shop Keeper Page.....	66
Figure 4. 25 Use Case Diagram for iMathics Software.....	67
Figure 5. 1 Choose Language Screenshot.....	79
Figure 5. 2 Start Game Menu Screenshot.....	80
Figure 5. 3 New Game Page Screenshot.....	80
Figure 5. 4 Load Game Page Screenshot.....	81
Figure 5. 5 Main Menu Screen Shot.....	81

Figure 5. 6 Home Screen Shot.....	82
Figure 5. 7 Study Menu Screen Shot.....	82
Figure 5. 8 Study Page Screen Shot.....	83
Figure 5. 9 Games Menu Screen Shot.....	83
Figure 5. 10 Mini Game Menu Screen Shot.....	84
Figure 5. 11 How to Play Page Screen Shot.....	84
Figure 5. 12 Balloon Shooting Screen Shot.....	85
Figure 5. 13 Space Defender Screen Shot.....	85
Figure 5. 14 Time Attack! Screen Shot.....	86
Figure 5. 15 CatchIT! Screen Shot.....	86
Figure 5. 16 TimeIT! Screen Shot.....	87
Figure 5. 17 The Shop Keeper Screen Shot.....	87
Figure 6. 1 Result's Pie Chart of Question no.1.....	89
Figure 6. 2 Result's Pie Chart of Question no.2.....	90
Figure 6. 3 Result's Pie Chart of Question no.3.....	91
Figure 6. 4 Result's Pie Chart of Question no.4.....	92
Figure 6. 5 Result's Pie Chart of Question no.5.....	93
Figure 6. 6 Result's Pie Chart of Question no.6.....	94
Figure 6. 7 Result's Pie Chart of Question no.7.....	95
Figure 6. 8 Result's Pie Chart of Question no.8.....	96
Figure 6. 9 Result's Pie Chart of Question no.9.....	97
Figure 6. 10 Result's Pie Chart of Question Part II no.1.....	100

Figure 6. 11 Result's Pie Chart of Question Part II no.2..... 101

Figure 6. 12 Result's Pie Chart of Question Part II no.3..... 102

Figure 6. 13 Result's Pie Chart of Question Part II no.4..... 103

Figure 6. 14 Result's Pie Chart of Question Part II no.5..... 104