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APPENDICES

A. Data collection instruments.

Table: Participant's observation and checklist findings in class (Faryadi, Q. 2012)

No	The Evaluation criteria in the classroom	Replies
1	Did the participants stay interested during the class?	
2	Have the participants concentrate to the instructor?	
3	Were the participants motivated in the class?	
4	Did the participants complain about class condition?	
5	Did the participants understand the lesson properly?	
6	Were the participants confident in the class?	
7	Have the participants ask any questions through the lesson?	
8	Were the participants retain the lesson and continue to learn?	
9	Were the participants come to the classroom in a happy mode?	
10	Did the participants disturb the instructor? (make him angry)	
11	Did the participants sense important in the classroom?	

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B. Example showing how instruments have been used.

Table: Participant's observation and checklist findings with TM in class (Faryadi, Q. 2012)

No	The Evaluation criteria with traditional method in the classroom	Replies
1	Did the participants stay interested during the class?	(No)
2	Have the participants concentrate to the instructor?	(No)
3	Were the participants motivated in the class?	(No)
4	Did the participants complain about class condition?	(Yes)
5	Did the participants understand the lesson properly?	(No)
6	Were the participants confident in the class?	(No)
7	Have the participants ask any questions through the lesson?	(Yes)
8	Were the participants retain the lesson and continue to learn?	(No)
9	Were the participants come to the classroom in a happy mode?	(No)
10	Did the participants disturb the instructor? (make him angry)	(Yes)
11	Did the participants sense important in the classroom?	(No)

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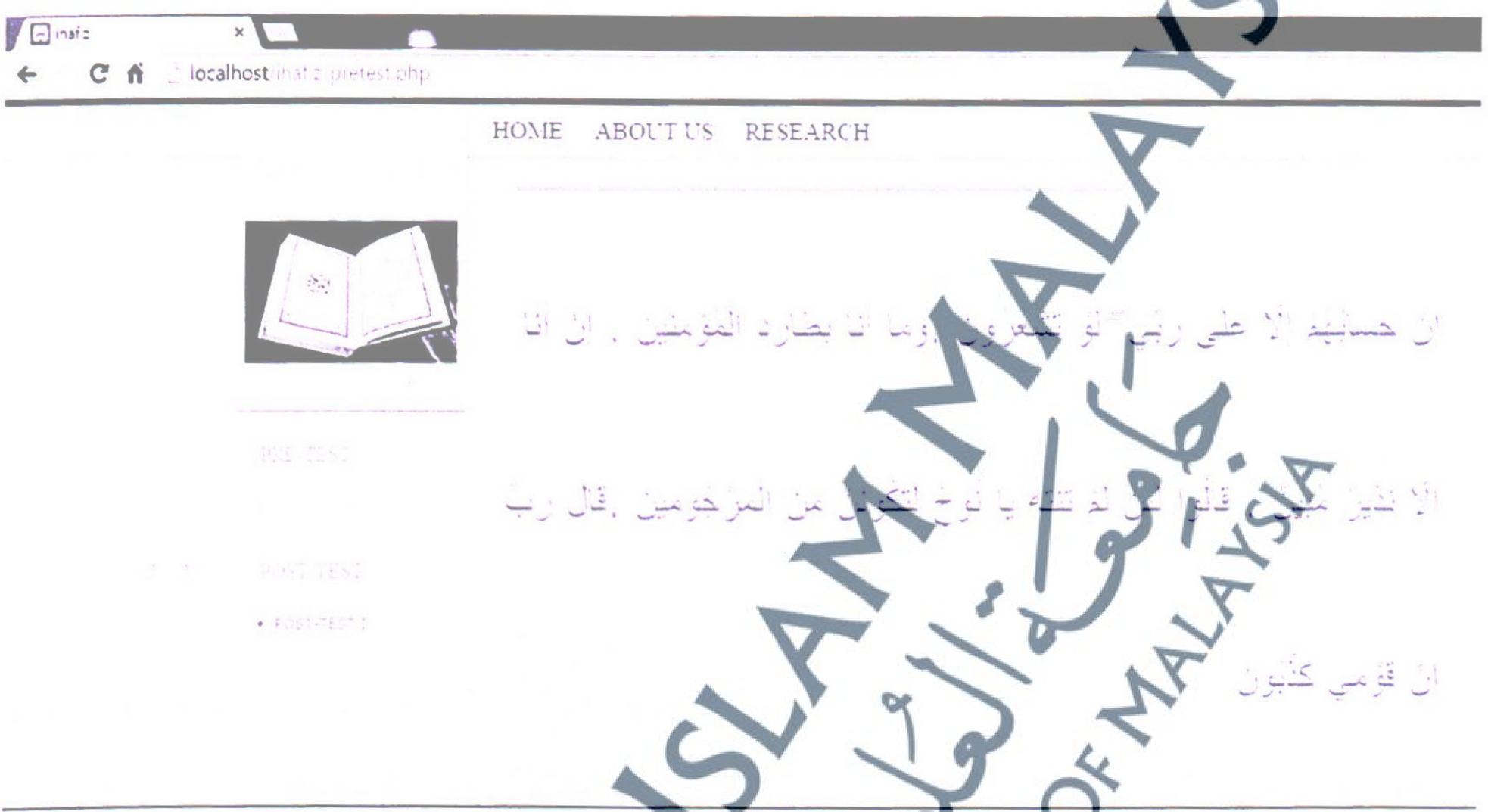
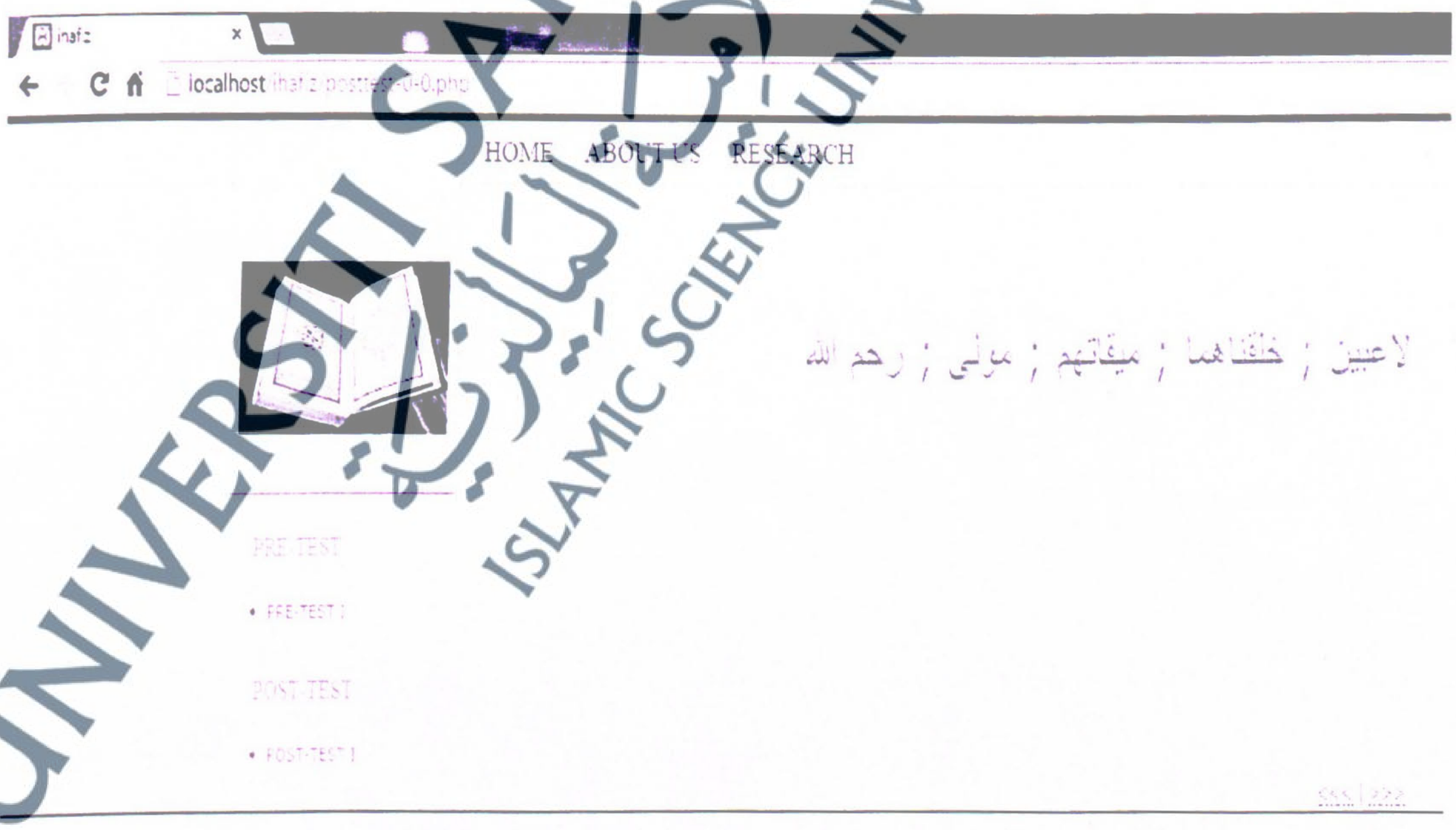
C. Computer software developed as part of the research.

Procedure of Experimentation

1- Pretest Procedure in Experimentation



2- Posttest Procedure in Experimentation



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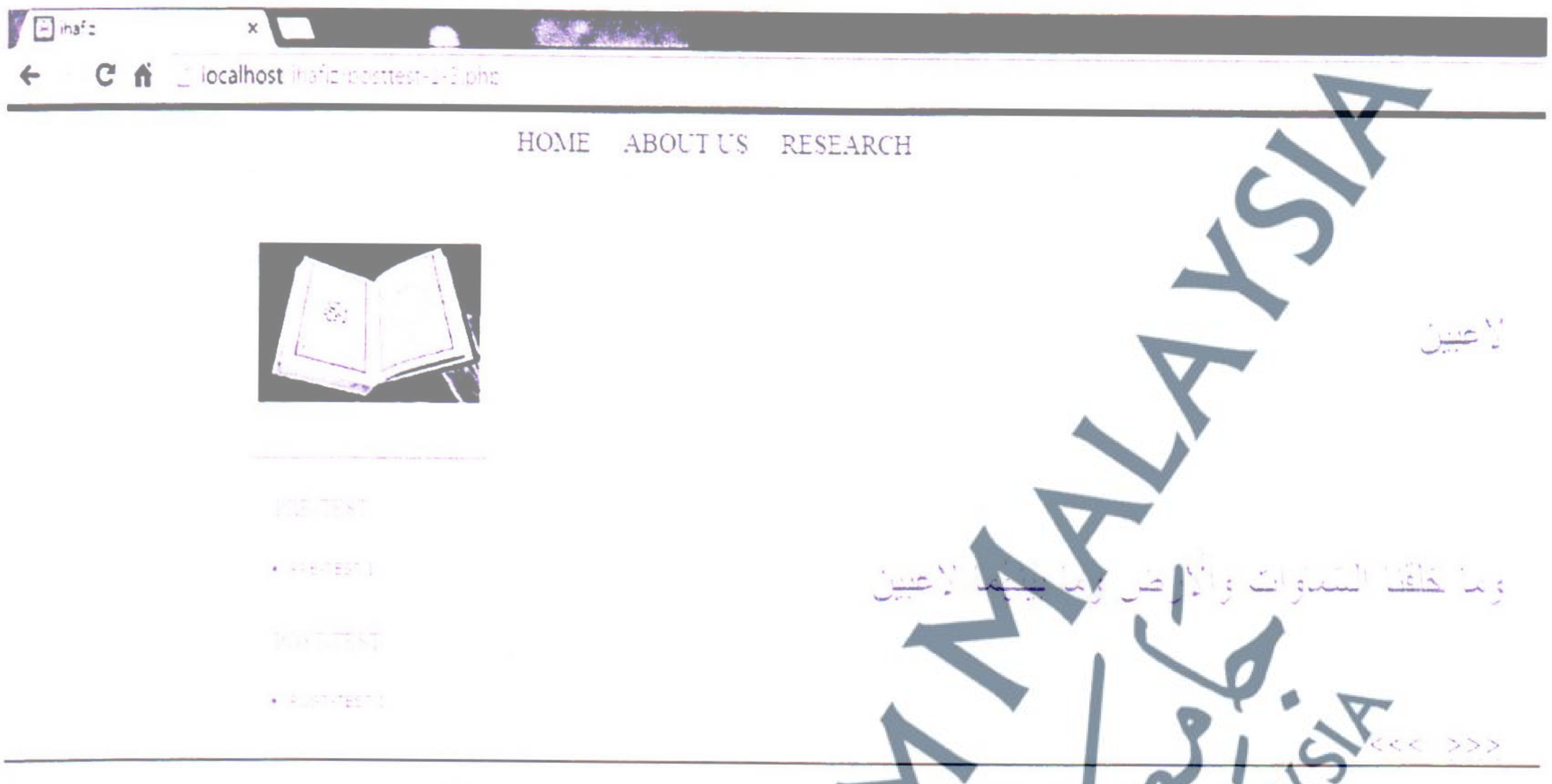
For Example:



Final of Posttest Procedure in Experimentation:

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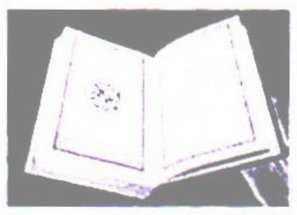
About Us



HOME ABOUT US RESEARCH

Ihafiz is a website of improving the memorization process of the quran.

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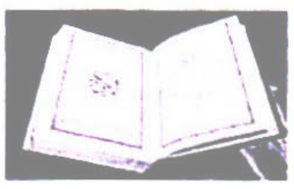
About the Research:

HOME ABOUT US RESEARCH



The website reflects a research of optimizing verbatim memory for quranic memorization.

Quranic memorization is an essential Islamic repertoire in the implementation of religiousity among Muslims. The traditional manner of memorizing the Quran requires a high level of discipline and determination. To assist the effort of memorization, this research proposes a new model of committing quranic text to memory called the Quranic Multimedia Memory Model (QM3). It hybridizes the study performed on verbatim memory, models of memory and Cognitive Multimedia Learning Theory. The model is implemented via e-learning to promote better memorization. Over 70 students from early secondary school of Middle Eastern Libyan nationality are taken to evaluate the effectiveness of the proposed model based on the pretest and posttest experimental design.

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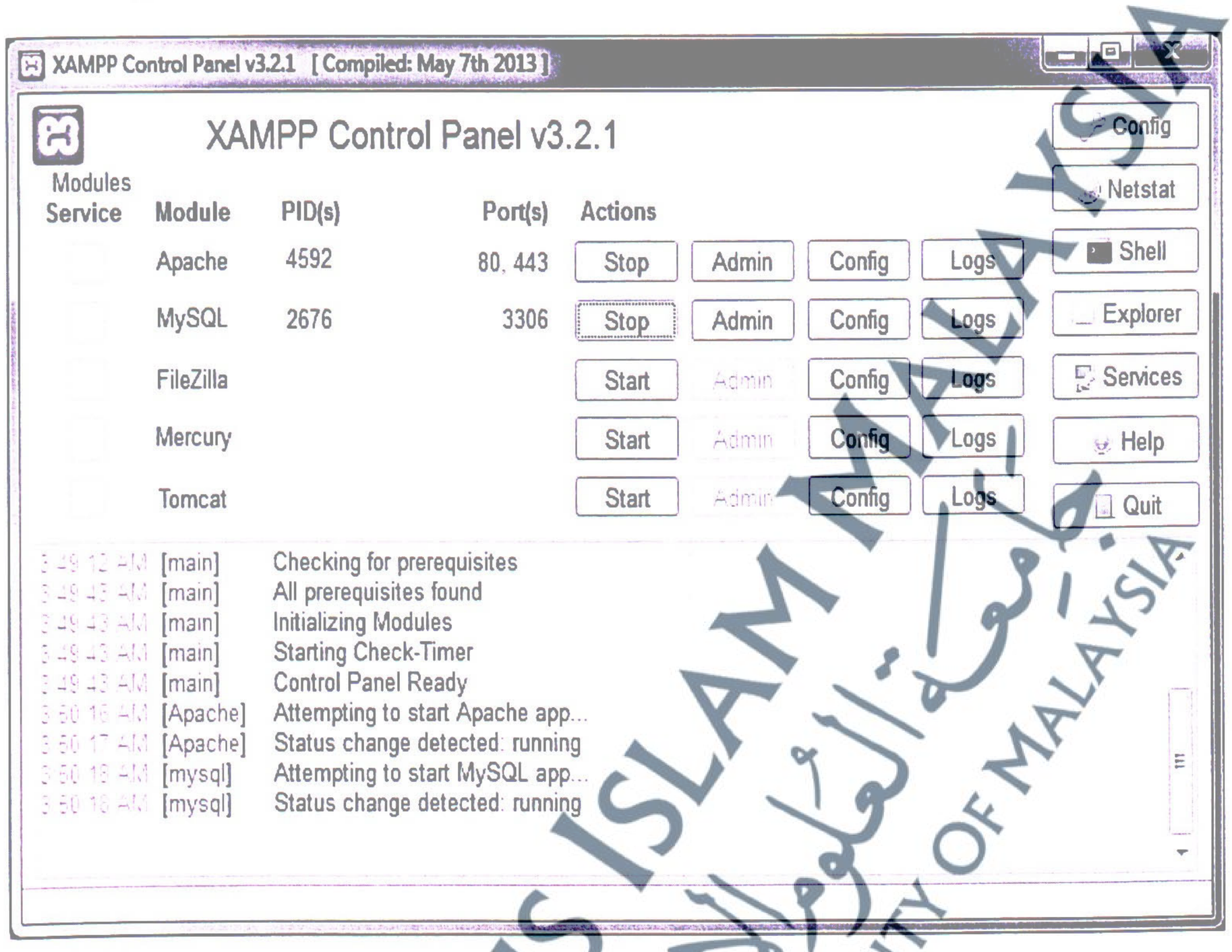
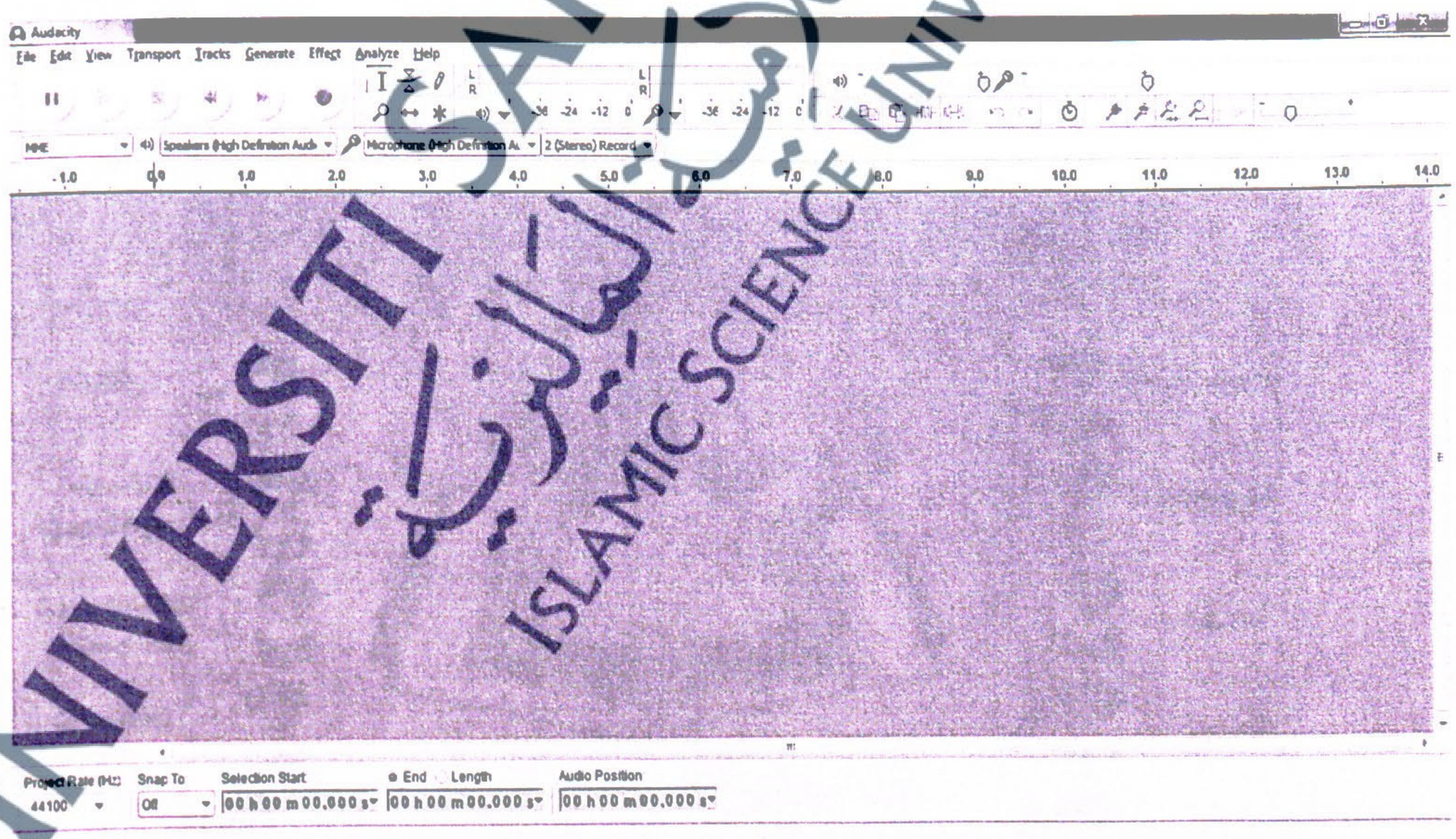
D. List of equipment used.

1- Xampp control panel v3.2.1



2- Audacity software v 2.0.6



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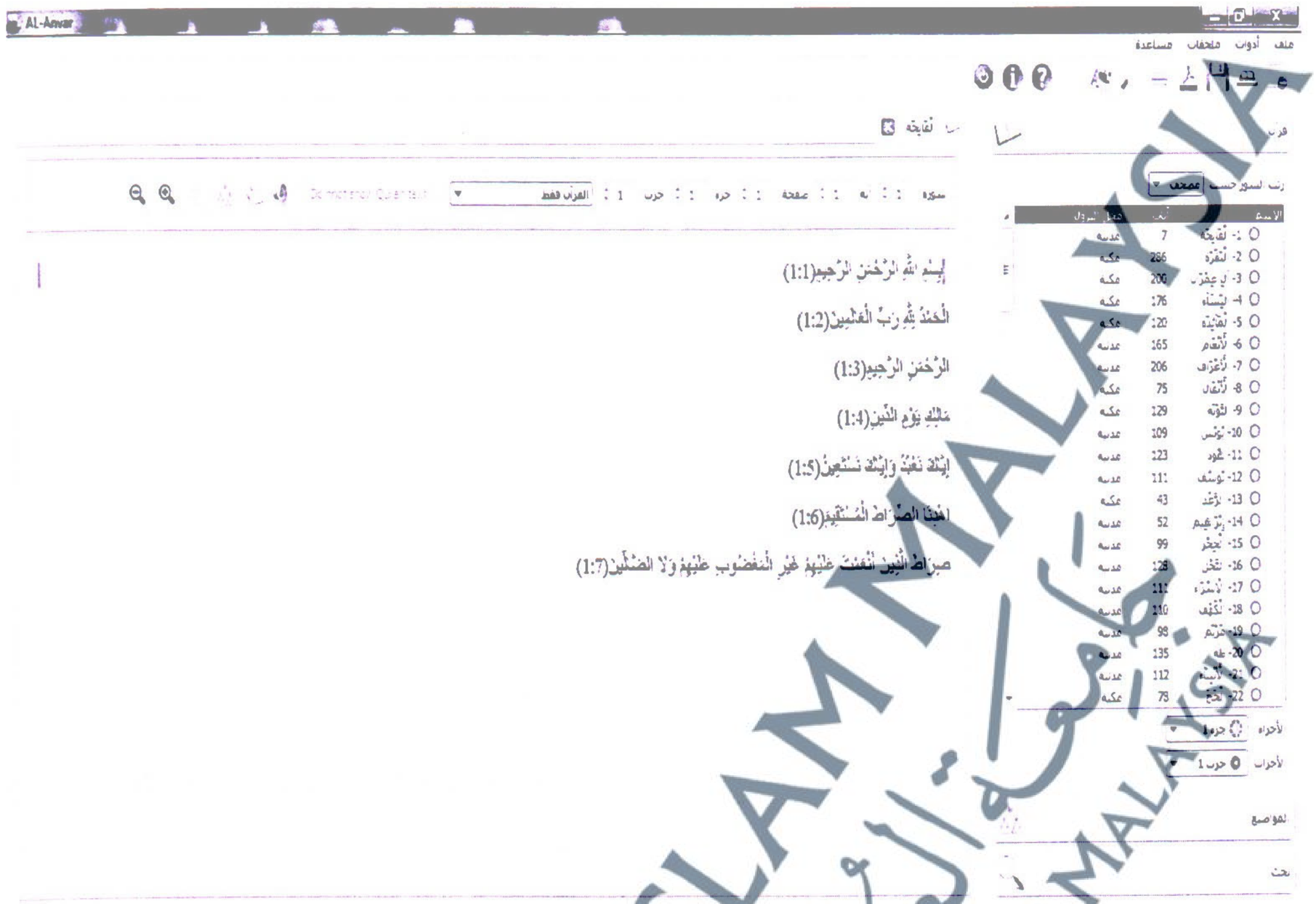
3- AL-Anvar software v 0.6.0



E. An Evaluation of Multimedia Learning Tools in the Markets:

a) Content and Design Analysis (Nour Elbyan)

Figure 2.40: Nour Elbyan

Figure 2.41: Nour Elbyan

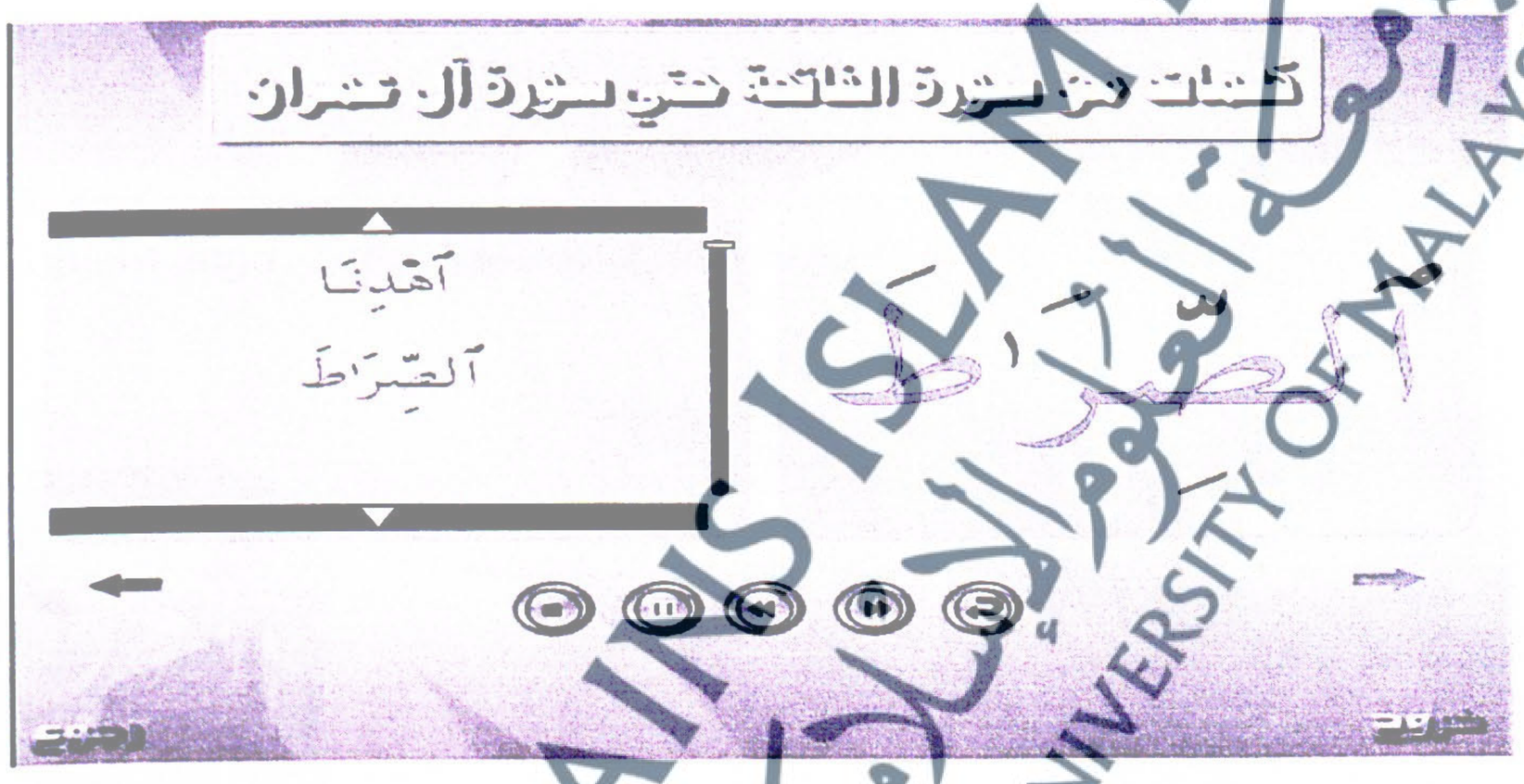


Figure 2.42: Nour Elbyan

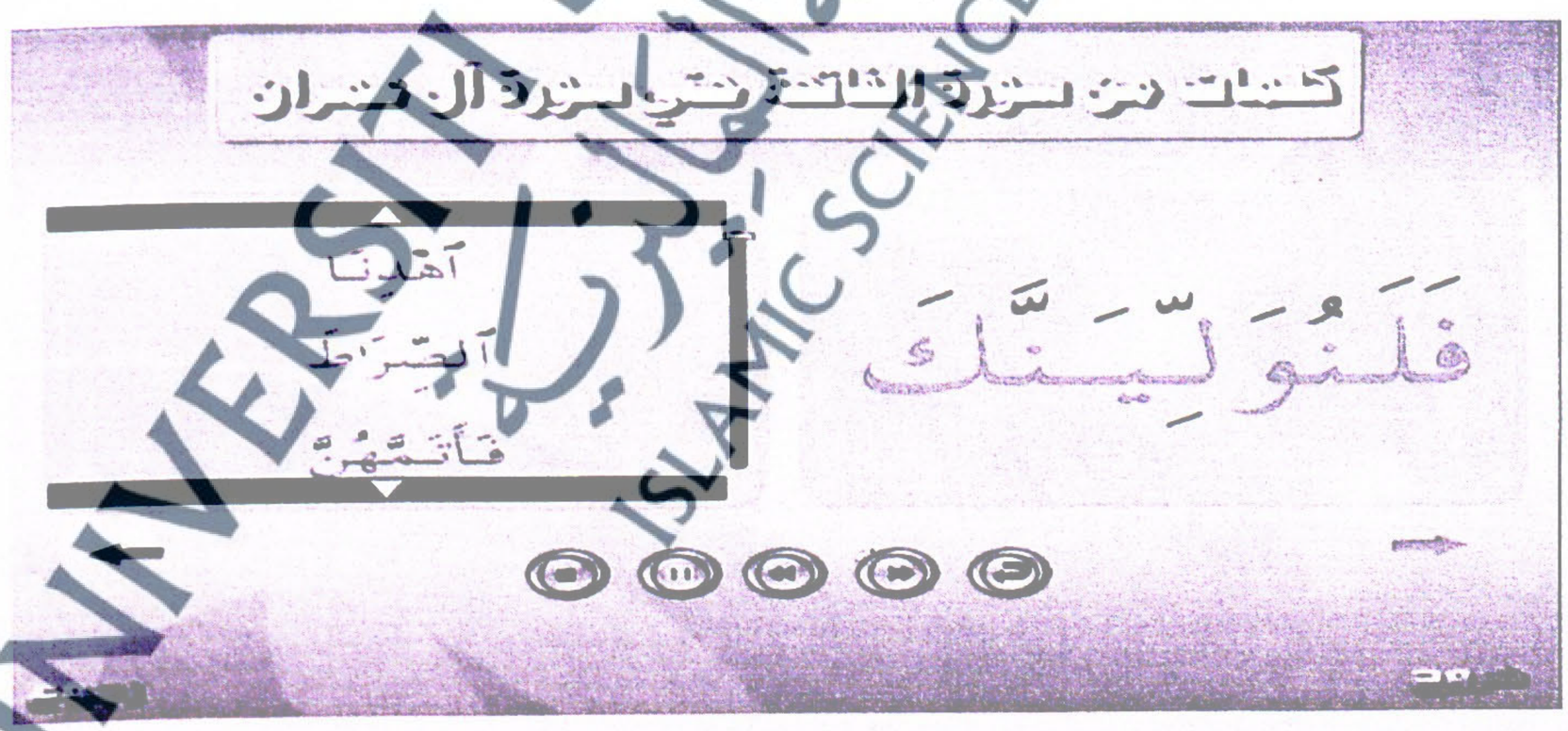


Figure 2.43: Nour Elbyan

Figure 2.44: Nour Elbyan

b) Content and Design Analysis (BianAjmy)

Figure 2.45: BianAjmy

Figure 2.46: BianAjmy

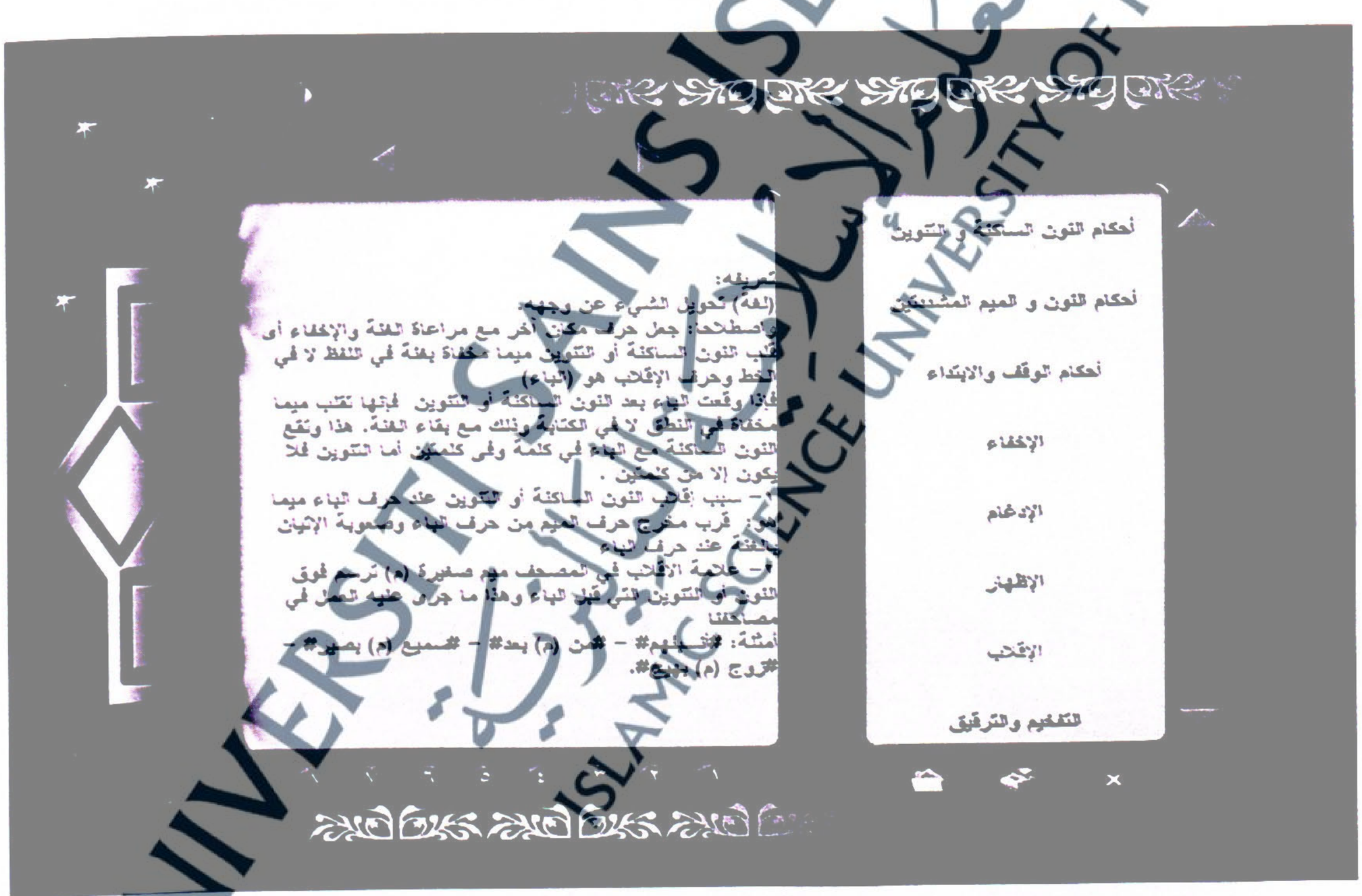


Figure 2.47: BianAjmy

c) Content and Design Analysis (Quran Memorization cd)

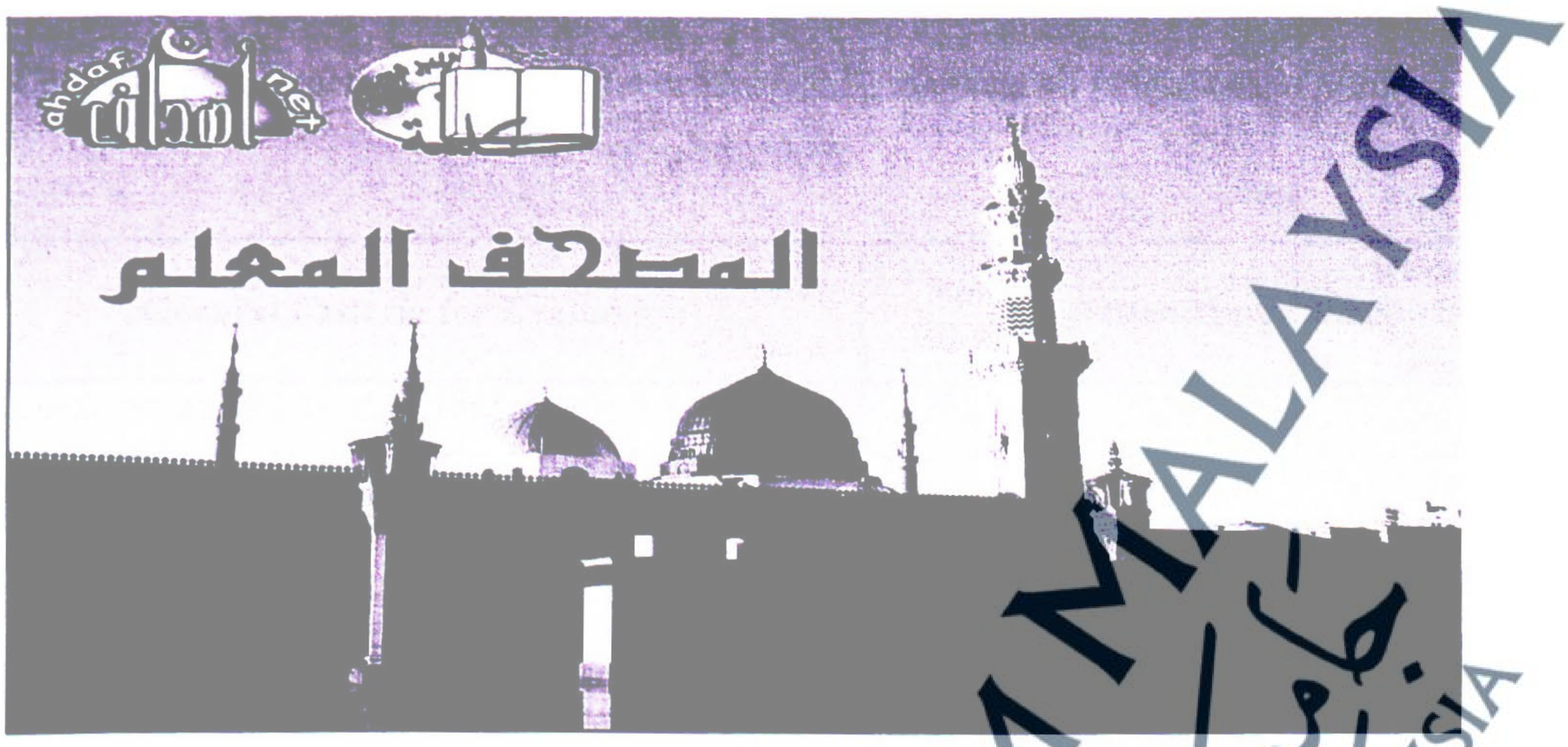


Figure 2.48: Quran Memorization cd Application

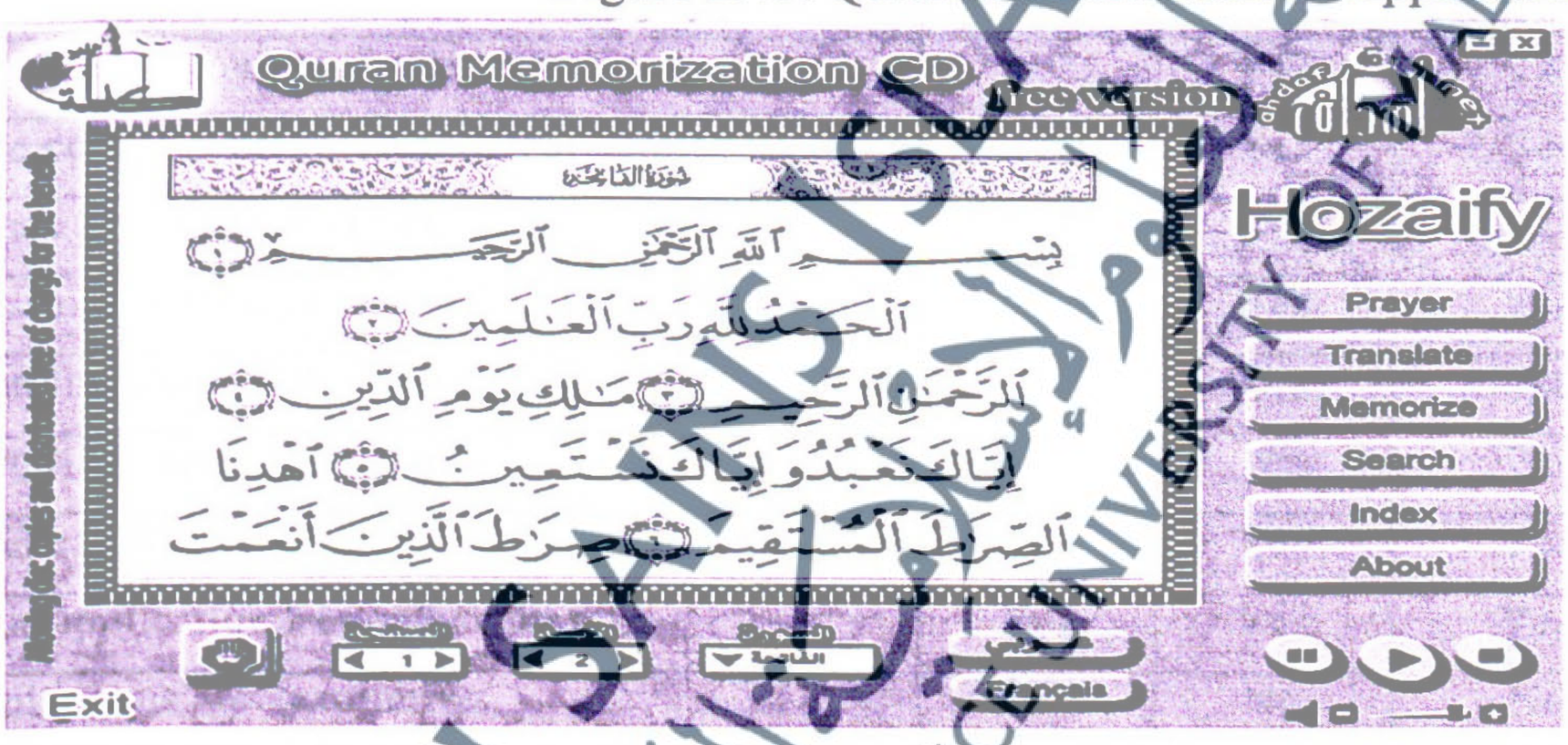


Figure 2.49:Quran Memorization cd

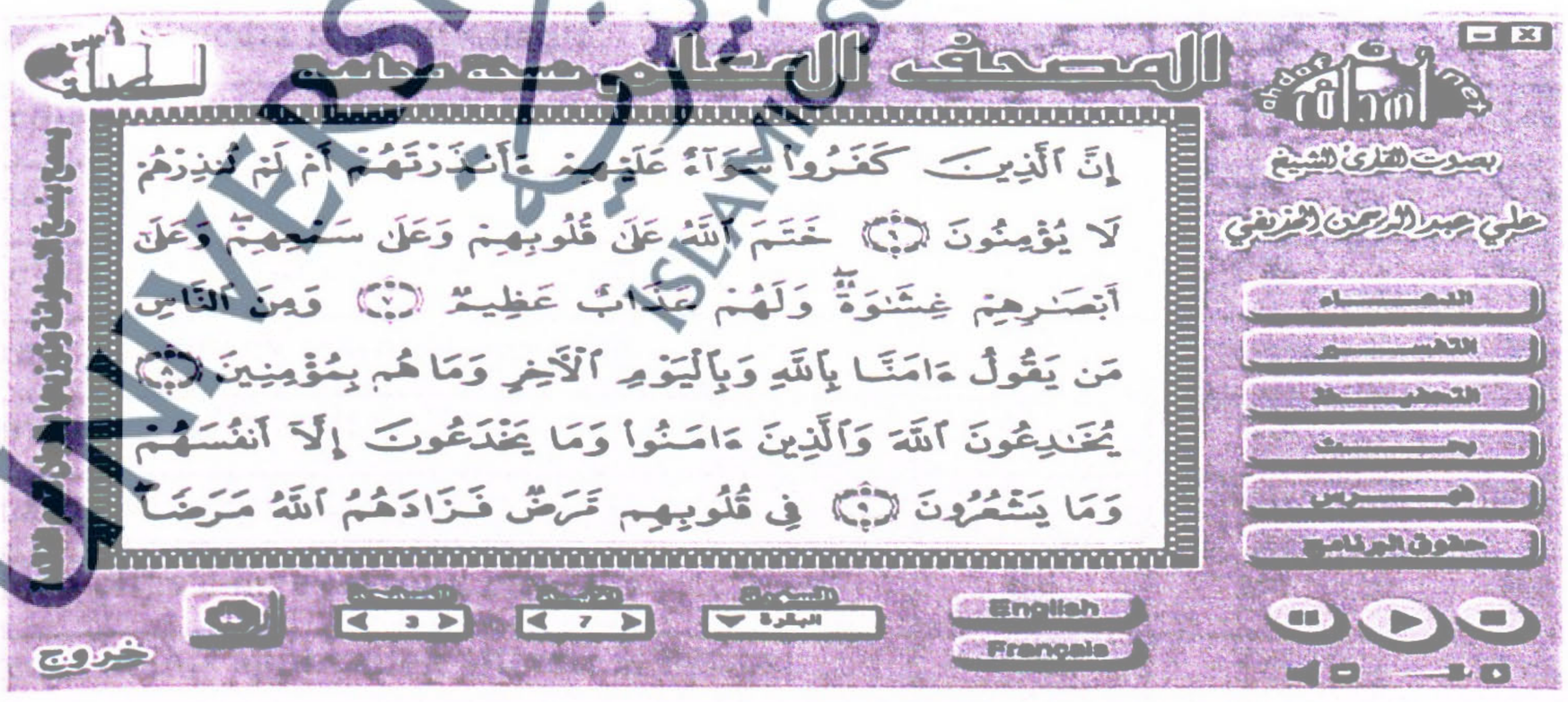


Figure 2.50: Quran Memorization cd

F. Appendix 1

Checklist for a General Review of Arabic Multimedia Application in Markets of Malaysia (Faryadi,2009) :

No	General Criteria for Evaluation	Nour Elbyan	BianAjmy	Quran Memorization cd
1	Is there an author in this application?	No	No	No
2	What is his/her qualification?	Unknown	Un known	Un known
3	Is the author reputable?	Yes	Yes	Yes
4	Objectives/goals are outlined.	No	No	No
5	Field-tested methodology used.	No	No	No
6	The application is lesson based.	Yes	Yes	Yes
7	Learning outcome is identified.	No	No	No
8	The course content is relevant.	Yes	Yes	Yes
9	The course content is validated.	Yes	Yes	Yes
10	There are activities to practice.	Yes	Yes	Yes
11	Learning activities are different.	Yes	Yes	Yes
12	Activities are related to real life.	Yes	Yes	Yes
13	Activities arouse thinking.	No	No	No
14	Feedbacks are morally sound.	Yes	Yes	Yes
15	This application has redundant text.	Yes	Yes	Yes
16	Animations are destructive.	No	No	No
17	Application requires installation.	Yes	Yes	Yes
18	Media-animation-sound relevant.	No	No	No
19	Quality of media is questionable.	Yes	Yes	Yes
20	Media in this application is helpful for learning.	Yes	Yes	Yes
21	There is an integration of media.	Yes	Yes	Yes
22	Media is relevant to the concept.	Yes	Yes	Yes
23	Graphics convey learning message.	No	Yes	No
24	Animations difficult to load.	No	No	No
25	Quality of graphics is poor.	Yes	Yes	Yes
26	Video clips convey wrong message.	No	No	No
27	Media in this application attracts attention.	Yes	Yes	Yes

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Checklist for a General Review of Arabic Multimedia Application in Markets of Malaysia (Faryadi,2009):

No	General Criteria for Evaluation	Nour Elbyan	BianAjmy	Quran Memorization cd
28	Media and text in this application are distanced	Yes	Yes	Yes
29	Media and text are not concurrent on the page.	No	No	No
30	Texts are narrated in story form	No	No	No
31	There is background music	No	No	No
32	Many animations on the screen.	No	Yes	No
33	Text, animations, graphics are near to each other.	No	No	No
34	The application encourages engagement.	Yes	Yes	Yes
35	Examples are biased.	No	No	No
36	There are mistakes in the text.	No	No	No
37	Narration is not clear.	No	No	No
38	Navigation is easy.	Yes	Yes	Yes
39	Page design is consistent.	No	No	No
40	Links are properly placed.	Yes	Yes	Yes
41	Graphics dominate the screen.	Yes	Yes	Yes
42	Font size is big enough.	Yes	Yes	Yes
43	Background clashes with the text.	No	No	No
44	There is group learning session.	No	No	No
45	Puzzles and quizzes are provided.	Yes	Yes	Yes
46	Learners are rewarded with marks.	No	No	No
47	There are revision and repetition.	Yes	Yes	Yes
48	Lessons can be printed.	Yes	Yes	Yes

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G. Appendix 2

Checklist for a Specific Review of the Arabic Multimedia Instruction in Markets of Malaysian

(Faryadi,2009)

No	Specific Criteria for Evaluation	Nour Elbyan	BianAjmy	Quran Memorization cd
1	Was this application an attention seeker?	No	No	No
2	Were the objectives of this application clearly defined?	No	No	No
3	Does this application stimulate learner's prior knowledge?	No	No	No
4	Was the content of this application sequenced?	No	No	No
5	Does this application provide guidance for the learner?	Yes	Yes	Yes
6	Does this application provide ample practice for the learner?	No	Yes	Yes
7	This application provides enough feedback for the user.	Yes	Yes	No
8	This application provides assessment to know if the learner acquired the knowledge.	No	No	No
9	This application is lesson based.	No	No	No
10	This application has a review for each lesson learnt.	No	No	No
11	Is this application interesting?	Yes	Yes	No
12	Does this application make learner curious to continue learning?	No	No	No
13	Does this application challenge the learner?	Yes	Yes	No
14	Does this application help learners to use the skill learnt later?	No	No	No
15	In this application learner feels confident that he/she can learn.	No	No	No
16	In this application learner feels satisfied that he/she is learning something new.	No	No	No
17	This application is designed for the target audience.	Yes	Yes	Yes

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Checklist for a Specific Review of the Arabic Multimedia Instruction in Markets of Malaysian

(Faryadi,2009)

No	Specific Criteria for Evaluation	Nour Elbyan	BianAjmy	Quran Memorization cd
18	Media selection is appropriate in this application.	No	No	No
19	This application has group learning as well as individual learning activities.	No	No	No
20	This application eliminated unwanted and redundant information.	No	No	No
21	This application provided opportunity for the learner to be in control.	Yes	Yes	Yes
22	This application is designed based on a solid reason.	No	No	No
23	This application engages learner in critical thinking.	No	No	No
24	This application can be used in a socially packed environment.	No	No	No
25	This application is based on field-tested paradigm of learning.	No	No	No
26	In this application words are illustrated with pictures.	Yes	Yes	Yes
27	In this application words and pictures are presented concurrently.	No	No	No
28	In this application words are supplemented with narration.	No	No	No
29	In this application information is presented in segments.	Yes	Yes	Yes
30	In this application information is presented as a conversation.	No	No	No
31	This application is field-tested.	No	No	No

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H. Memorization Time Data using Quranic Multimedia Memory Model (QM3)

Total of letters in each verse using QM3 (Post-Test Correct Data)								
No of letters in each ayah	**29**	**35**	**23**	**36**	**37**	**160**	**AVG of memorization time**	**No**
Order of ayat	**5th**	**4th**	**3rd**	**2nd**	**1st**	**Total no of Correct Data**		
Represent Correct letters in each repetition	29	35	23	36	37	160		1
	29	35	23	35	37	159		
	29	35	23	35	37	159		
Total Avg for correct letters						159.333333	1.1297	
Represent Correct letters in each repetition	21	35	23	35	37	151		2
	17	35	23	35	37	147		
	23	35	23	35	37	153		
Total Avg for correct letters						150.333333	1.1973	
Represent Correct letters in each repetition	29	35	23	36	37	160		3
	29	35	23	18	37	142		
	29	35	23	36	37	160		
Total Avg for correct letters						154	1.1688	
Represent Correct letters in each repetition	26	33	23	36	37	155		4
	20	33	23	36	37	149		
	26	33	23	30	37	149		
Total Avg for correct letters						151	1.1921	
Represent Correct letters in each repetition	17	35	23	36	37	148		5
	17	33	23	30	37	140		
	17	33	23	27	37	137		
Total Avg for correct letters						141.666667	1.2706	
Represent Correct letters in each repetition	29	35	23	36	37	160		6
	29	35	23	36	37	160		
	29	35	23	32	37	156		
Total Avg for correct letters						158.666667	1.1344	
Represent Correct letters in each repetition	29	32	23	36	37	157		7
	18	32	23	36	37	146		
	20	35	23	33	37	148		
Total Avg for correct letters						150.333333	1.1973	

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Represent Correct letters in each repetition	26	34	15	33	37	145		8
	26	35	23	36	35	155		
	29	35	23	35	37	159		
Total Avg for correct letters						153	1.1765	
Represent Correct letters in each repetition	24	32	23	36	35	150		9
	20	32	23	32	35	142		
	20	32	23	32	37	144		
Total Avg for correct letters						145.333333	1.2385	
Represent Correct letters in each repetition	29	32	23	36	37	157		10
	29	26	23	36	37	151		
	29	26	23	36	37	151		
Total Avg for correct letters						153	1.1764	
Represent Correct letters in each repetition	27	35	23	36	37	158		11
	23	35	23	36	37	154		
	29	35	17	36	37	154		
Total Avg for correct letters						155.333333	1.1588	
Represent Correct letters in each repetition	29	35	23	36	37	160		12
	29	35	23	36	37	160		
	29	35	23	34	37	158		
Total Avg for correct letters						159.333333	1.1297	
Represent Correct letters in each repetition	29	29	23	36	37	154		13
	29	35	23	36	30	153		
	26	33	23	34	36	152		
Total Avg for correct letters						153	1.1764	
Represent Correct letters in each repetition	24	35	23	36	37	155		14
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						158.333333	1.1368	
Represent Correct letters in each repetition	12	29	23	18	37	119		15
	29	35	23	21	37	145		
	29	35	23	36	37	160		
Total Avg for correct letters						141.333333	1.2735	

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Represent Correct letters in each repetition	29	35	23	36	37	160		16
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						160	1.125	
Represent Correct letters in each repetition	26	35	23	36	37	157		17
	26	35	23	36	37	157		
	26	31	23	36	37	153		
						155.666667	1.1563	
Represent Correct letters in each repetition	29	32	23	35	36	155		18
	26	34	23	35	36	154		
	29	30	23	35	37	154		
Total Avg for correct letters						154.333333	1.1663	
Represent Correct letters in each repetition	24	35	23	31	37	150		19
	23	35	23	36	37	154		
	23	31	23	36	36	149		
Total Avg for correct letters						151	1.1921	
Represent Correct letters in each repetition	29	35	23	36	37	160		20
	22	28	23	36	37	146		
	26	29	13	36	37	141		
Total Avg for correct letters						149	1.2081	
Represent Correct letters in each repetition	29	35	23	36	37	160		21
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						160	1.125	
Represent Correct letters in each repetition	23	35	23	36	37	154		22
	23	35	23	36	37	154		
	23	35	23	36	37	154		
Total Avg for correct letters						154	1.1688	
Represent Correct letters in each repetition	26	35	23	36	37	157		23
	26	35	23	36	37	157		
	26	33	23	36	37	155		
Total Avg for correct letters						156.333333	1.1514	

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Represent Correct letters in each repetition	29	20	23	36	37	145		24
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						155	1.1613	
Represent Correct letters in each repetition	26	35	23	36	37	157		25
	0	35	23	36	37	131		
	26	33	23	36	37	155		
Total Avg for correct letters						147.666667	1.2189	
Represent Correct letters in each repetition	29	35	23	36	37	160		26
	29	25	23	33	37	147		
	29	35	23	33	37	157		
Total Avg for correct letters						154.666667	1.1638	
Represent Correct letters in each repetition	29	35	23	36	37	160		27
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						160	1.125	
Represent Correct letters in each repetition	29	35	23	36	37	160		28
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						160	1.125	
Represent Correct letters in each repetition	29	35	23	36	36	159		29
	29	35	23	36	37	160		
	29	35	23	36	36	159		
Total Avg for correct letters						159.333333	1.1297	
Represent Correct letters in each repetition	29	29	23	36	34	151		30
	29	29	23	36	37	154		
	29	29	23	36	37	154		
Total Avg for correct letters						153	1.1765	
Represent Correct letters in each repetition	29	35	23	36	37	160		31
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						160	1.125	

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Represent Correct letters in each repetition	29	35	23	36	36	159		32
	29	20	19	36	37	141		
	29	35	23	36	37	160		
Total Avg for correct letters						153.333333	1.1739	
Represent Correct letters in each repetition	29	35	23	36	37	160		33
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						160	1.125	
Represent Correct letters in each repetition	29	35	23	36	37	160		34
	29	35	23	36	37	160		
	29	35	23	36	37	160		
Total Avg for correct letters						160	1.125	
Represent Correct letters in each repetition	29	35	23	36	36	159		35
	29	35	23	36	36	159		
	29	35	23	36	36	159		
Total Avg for correct letters						159	1.1321	

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I. Error Propensity Data using Quranic Multimedia Memory Model (QM3)

Total of letters in each verse using QM3 (Post-Test Error Data)								
No of letters in each ayah	29	35	23	36	37	160	AVG of error propensity	No
Order of ayat	5th	4th	3rd	2nd	1st	Total no of Error Data		
Represent Error letters in each repetition	0	0	0	0	0	0		1
	0	0	0	1	0	1		
	0	0	0	1	0	1		
Total Avg for error letters						0.66666667	0.0041	
Represent Error letters in each repetition	0	0	0	0	0	0		2
	0	0	0	0	0	0		
	0	0	0	0	1	1		
Total Avg for error letters						0.33333333	0.0021	
Represent Error letters in each repetition	0	0	0	0	0	0		3
	0	0	0	18	0	18		
	0	0	0	0	0	0		
Total Avg for error letters						6	0.0375	
Represent Error letters in each repetition	3	2	0	0	0	5		4
	9	2	0	0	0	11		
	3	2	0	6	0	11		
Total Avg for error letters						9	0.0563	
Represent Error letters in each repetition	0	0	0	0	0	0		5
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	0	0	0	0	0	0		6
	0	0	0	0	0	0		
	0	0	0	4	0	4		
Total Avg for error letters						1.33333333	0.0083	
Represent Error letters in each repetition	2	0	0	0	0	2		7
	3	0	0	0	0	3		
	0	0	0	0	0	0		
Total Avg for error letters						1.66666667	0.0104	

Represent Error letters in each repetition	3	1	8	3	0	15		8
	3	0	0	0	2	5		
	0	0	0	1	0	1		
Total Avg for error letters						7	0.0437	
Represent Error letters in each repetition	3	0	0	0	0	3		9
	3	0	0	1	1	5		
	3	3	0	0	3	9		
Total Avg for error letters						5.66666667	0.0354	
Represent Error letters in each repetition	0	3	0	0	0	3		10
	0	9	0	0	0	9		
	0	9	0	0	0	9		
Total Avg for error letters						7	0.0437	
Represent Error letters in each repetition	2	0	0	0	0	2		11
	6	0	0	0	0	6		
	0	0	6	0	0	6		
Total Avg for error letters						4.66666667	0.0292	
Represent Error letters in each repetition	0	0	0	0	0	0		12
	0	0	0	0	0	0		
	0	0	0	2	0	2		
Total Avg for error letters						0.66666667	0.0041	
Represent Error letters in each repetition	0	6	0	0	0	6		13
	0	0	0	0	7	7		
	3	0	0	2	1	6		
Total Avg for error letters						6.33333333	0.0395	
Represent Error letters in each repetition	5	0	0	0	0	5		14
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						1.66666667	0.0104	
Represent Error letters in each repetition	17	6	0	18	0	41		15
	0	0	0	15	0	15		
	0	0	0	0	0	0		
Total Avg for error letters						18.6666667	0.1166	

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Represent Error letters in each repetition	0	0	0	0	0	0		16
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	3	0	0	0	0	3		17
	3	0	0	0	0	3		
	3	4	0	0	0	7		
Total Avg for error letters						4.33333333	0.0271	
Represent Error letters in each repetition	0	3	0	0	1	4		18
	3	1	0	0	1	5		
	0	5	0	0	0	5		
Total Avg for error letters						4.66666667	0.0417	
Represent Error letters in each repetition	0	0	0	0	0	0		19
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	0	0	0	0	0	0		20
	7	7	0	0	0	14		
	3	6	10	0	0	19		
Total Avg for error letters						11	0.0687	
Represent Error letters in each repetition	0	0	0	0	0	0		21
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	6	0	0	0	0	6		22
	6	0	0	0	0	6		
	6	0	0	0	0	6		
Total Avg for error letters						6	0.0375	
Represent Error letters in each repetition	3	0	0	0	0	3		23
	3	0	0	0	0	3		
	3	2	0	0	0	5		
Total Avg for error letters						3.66666667	0.0229	

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Represent Error letters in each repetition	0	15	0	0	0	15		24
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						5	0.0313	
Represent Error letters in each repetition	3	0	0	0	0	3		25
	29	0	0	0	0	29		
	3	2	0	0	0	5		
Total Avg for error letters						12.3333333	0.0771	
Represent Error letters in each repetition	0	0	0	0	0	0		26
	0	10	0	3	0	13		
	0	0	0	3	0	3		
Total Avg for error letters						5.33333333	0.0333	
Represent Error letters in each repetition	0	0	0	0	0	0		27
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	0	0	0	0	0	0		28
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	0	0	0	0	1	1		29
	0	0	0	0	0	0		
	0	0	0	0	1	1		
Total Avg for error letters						0.66666667	0.0041	
Represent Error letters in each repetition	0	6	0	0	3	9		30
	0	6	0	0	0	6		
	0	6	0	0	0	6		
Total Avg for error letters						7	0.04375	
Represent Error letters in each repetition	0	0	0	0	0	0		31
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	

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Represent Error letters in each repetition	0	0	0	0	1	1		32
	0	15	4	0	0	19		
	0	0	0	0	0	0		
Total Avg for error letters						6.66666667	0.0417	
Represent Error letters in each repetition	0	0	0	0	0	0		33
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	0	0	0	0	0	0		34
	0	0	0	0	0	0		
	0	0	0	0	0	0		
Total Avg for error letters						0	0	
Represent Error letters in each repetition	0	0	0	0	1	1		35
	0	0	0	0	1	1		
	0	0	0	0	1	1		
Total Avg for error letters						1	0.0063	

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J. Memorization Time Data using Traditional Method (TM)

Total of letters in each verse using Traditional method (Pre-Test Correct Data)								
No of letters in each ayah	**16**	**36**	**16**	**19**	**25**	**112**	**AVG of memorization time**	**No**
Order of ayat	**5th**	**4th**	**3rd**	**2nd**	**1st**	**Total no of Correct Data**		
Represent Correct letters in each repetition	16	29	15	19	16	95		1
	16	32	15	19	16	98		
	16	26	15	19	23	99		
Total Avg for correct letters						97.3333333	1.8493	
Represent Correct letters in each repetition	14	36	16	19	22	107		2
	16	36	16	19	22	109		
	16	35	16	19	22	108		
Total Avg for correct letters						108	1.6666	
Represent Correct letters in each repetition	16	31	14	18	21	100		3
	16	31	11	18	21	97		
	16	26	14	18	21	95		
Total Avg for correct letters						97.3333333	1.8493	
Represent Correct letters in each repetition	16	36	16	19	25	112		4
	16	36	16	19	25	112		
	16	36	16	19	25	112		
Total Avg for correct letters						112	1.6071	
Represent Correct letters in each repetition	16	36	12	19	25	108		5
	16	36	12	19	24	107		
	16	36	16	19	25	112		
Total Avg for correct letters						109	1.6514	
Represent Correct letters in each repetition	16	33	14	19	24	106		6
	16	16	14	19	24	89		
	16	33	14	19	24	106		
Total Avg for correct letters						100.333333	1.794025	
Represent Correct letters in each repetition	16	34	16	19	21	106		7
	16	33	16	19	21	105		
	16	33	16	19	21	105		
Total Avg for correct letters						105.333333	1.7088	

Represent Correct letters in each repetition	0	10	15	18	24	67		8
	16	34	15	18	24	107		
	16	34	15	18	24	107		
Total Avg for correct letters						93.6666667	1.9217	
Represent Correct letters in each repetition	0	11	13	19	20	63		9
	15	33	15	16	23	102		
	15	36	16	19	22	108		
Total Avg for correct letters						91	1.97802	
Represent Correct letters in each repetition	15	34	14	18	23	104		10
	15	28	14	18	23	98		
	15	28	16	18	23	100		
Total Avg for correct letters						100.666667	1.7881	
Represent Correct letters in each repetition	15	26	16	17	25	99		11
	15	27	15	19	25	101		
	16	26	15	19	25	101		
Total Avg for correct letters						100.333333	1.79402	
Represent Correct letters in each repetition	16	36	16	18	24	110		12
	16	36	16	18	24	110		
	16	36	16	18	24	110		
Total Avg for correct letters						110	1.6363	
Represent Correct letters in each repetition	16	36	14	18	25	109		13
	16	36	16	18	22	108		
	16	36	16	18	25	111		
Total Avg for correct letters						109.333333	1.6463	
Represent Correct letters in each repetition	16	34	13	18	24	105		14
	16	34	13	18	24	105		
	16	34	11	18	24	103		
Total Avg for correct letters						104.333333	1.72524	
Represent Correct letters in each repetition	16	36	16	19	25	112		15
	16	36	16	19	25	112		
	16	36	16	19	25	112		
Total Avg for correct letters						112	1.6071	

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Represent Correct letters in each repetition	16	31	11	19	24	101		16
	16	31	11	19	24	101		
	16	31	11	19	24	101		
Total Avg for correct letters						101	1.78217	
Represent Correct letters in each repetition	15	31	16	0	25	87		17
	15	31	16	18	22	102		
	15	32	16	18	25	106		
Total Avg for correct letters						98.3333333	1.8305	
Represent Correct letters in each repetition	16	36	16	18	24	110		18
	16	36	16	19	24	111		
	16	36	16	19	24	111		
Total Avg for correct letters						110.666667	1.6265	
Represent Correct letters in each repetition	16	34	16	19	24	109		19
	16	34	16	19	24	109		
	16	36	16	19	24	111		
Total Avg for correct letters						109.666667	1.6413	
Represent Correct letters in each repetition	16	33	13	16	25	103		20
	16	24	16	16	16	88		
	16	33	7	14	16	86		
Total Avg for correct letters						92.3333333	1.9494	
Represent Correct letters in each repetition	16	35	14	16	25	106		21
	16	35	16	16	24	107		
	16	35	16	16	25	108		
Total Avg for correct letters						107	1.6822	
Represent Correct letters in each repetition	16	36	11	19	24	106		22
	12	30	13	18	23	96		
	16	34	15	16	25	106		
Total Avg for correct letters						102.666667	1.7532	
Represent Correct letters in each repetition	16	27	16	19	25	103		23
	16	35	16	19	25	111		
	16	34	16	19	25	110		
Total Avg for correct letters						108	1.6666	

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Represent Correct letters in each repetition	16	35	16	19	22	108		24
	16	35	16	19	22	108		
	16	35	16	19	22	108		
Total Avg for correct letters						108	1.6666	
Represent Correct letters in each repetition	16	33	12	18	22	101		25
	16	33	14	18	21	102		
	16	33	14	18	21	102		
Total Avg for correct letters						101.666667	1.7705	
Represent Correct letters in each repetition	16	36	16	18	25	111		26
	16	36	16	18	25	111		
	16	36	16	18	25	111		
Total Avg for correct letters						111	1.6216	
Represent Correct letters in each repetition	16	34	16	19	22	107		27
	16	34	16	19	22	107		
	16	34	16	19	21	106		
Total Avg for correct letters						106.666667	1.6874	
Represent Correct letters in each repetition	16	36	16	19	25	112		28
	16	36	16	19	25	112		
	16	36	16	19	25	112		
Total Avg for correct letters						112	1.6071	
Represent Correct letters in each repetition	16	36	16	19	25	112		29
	16	36	11	19	16	98		
	16	36	16	19	20	107		
Total Avg for correct letters						105.666667	1.7035	
Represent Correct letters in each repetition	16	36	16	19	25	112		30
	16	36	16	19	25	112		
	16	36	16	19	25	112		
Total Avg for correct letters						112	1.6071	
Represent Correct letters in each repetition	16	33	11	18	22	100		31
	16	34	11	18	22	101		
	16	33	14	18	21	102		
Total Avg for correct letters						101	1.7822	

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Represent Correct letters in each repetition	16	36	16	19	24	111		32
	16	36	16	19	24	111		
	16	36	16	19	24	111		
Total Avg for correct letters						111	1.6216	
Represent Correct letters in each repetition	16	34	11	18	24	103		33
	16	34	13	18	24	105		
	16	34	13	18	24	105		
Total Avg for correct letters						104.333333	1.7252	
Represent Correct letters in each repetition	16	34	14	18	21	103		34
	16	34	13	18	21	102		
	16	25	13	18	22	94		
Total Avg for correct letters						99.6666667	1.80601	
Represent Correct letters in each repetition	16	33	16	19	17	101		35
	15	32	16	19	17	99		
	15	31	16	19	17	98		
Total Avg for correct letters						99.3333333	1.8121	

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K. Error Propensity Data using Traditional Method (TM)

Total of letters in each verse using Traditional method (Pre-Test Error Data)								
No of letters in each ayah	16	36	16	19	25	112	AVG of error propensity	No
Order of ayat	5th	4th	3rd	2nd	1st	Total no of Error Data		
Represent Error letters in each repetition	0	7	1	0	9	17		1
	0	4	1	0	9	14		
	0	10	1	0	2	13		
Total Avg for error letters						14.6667	0.13095	
Represent Error letters in each repetition	2	0	0	0	3	5		2
	0	0	0	0	3	3		
	0	1	0	0	3	4		
Total Avg for error letters						4	0.0357	
Represent Error letters in each repetition	0	5	2	1	4	12		3
	0	5	5	1	4	15		
	0	10	2	1	4	17		
Total Avg for error letters						14.6667	0.13095	
Represent Error letters in each repetition	16	31	3	5	1	56		4
	0	1	0	0	1	2		
	1	20	0	0	0	21		
Total Avg for error letters						26.3333	0.2351	
Represent Error letters in each repetition	0	2	2	1	4	9		5
	0	2	3	1	4	10		
	0	11	3	1	3	18		
Total Avg for error letters						12.3333	0.1101	
Represent Error letters in each repetition	0	3	2	0	1	6		6
	0	20	2	0	1	23		
	0	3	2	0	1	6		
Total Avg for error letters						11.6667	0.1042	
Represent Error letters in each repetition	0	2	0	0	4	6		7
	0	3	0	0	4	7		
	0	3	0	0	4	7		
Total Avg for error letters						6.66667	0.0595	
Represent Error letters in each repetition	16	26	1	1	1	45		8
	0	2	1	1	1	5		
	0	2	1	1	1	5		
Total Avg for error letters						18.3333	0.1637	

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Represent Error letters in each repetition	16	25	3	0	5	49		9
	1	3	1	3	2	10		
	1	0	0	0	3	4		
Total Avg for error letters						21	0.1875	
Represent Error letters in each repetition	1	2	2	1	2	8		10
	1	8	2	1	2	14		
	1	8	0	1	2	12		
Total Avg for error letters						11.3333	0.1012	
Represent Error letters in each repetition	1	10	0	2	0	13		11
	1	9	1	0	0	11		
	0	10	1	0	0	11		
Total Avg for error letters						11.6667	0.1042	
Represent Error letters in each repetition	0	0	0	1	1	2		12
	0	0	0	1	1	2		
	0	0	0	1	1	2		
Total Avg for error letters						2	0.01786	
Represent Error letters in each repetition	0	11	4	0	6	21		13
	0	13	4	0	0	17		
	5	14	7	0	2	28		
Total Avg for error letters						22	0.1964	
Represent Error letters in each repetition	0	2	3	1	1	7		14
	0	2	3	1	1	7		
	0	2	5	1	1	9		
Total Avg for error letters						7.66667	0.0685	
Represent Error letters in each repetition	0	2	2	1	4	9		15
	0	2	3	1	4	10		
	0	11	3	1	3	18		
	0	20	2	0	0	22		
Total Avg for error letters						14.75	0.1317	
Represent Error letters in each repetition	0	5	5	0	1	11		16
	0	5	5	0	1	11		
	0	5	5	0	1	11		
Total Avg for error letters						11	0.0982	

Represent Error letters in each repetition	0	12	0	0	0	12		17
	5	12	5	0	0	22		
	0	3	5	8	0	16		
Total Avg for error letters						16.6667	0.1488	
Represent Error letters in each repetition	1	36	3	1	1	42		18
	1	24	6	1	1	33		
	1	24	7	2	1	35		
Total Avg for error letters						36.6667	0.3274	
Represent Error letters in each repetition	0	2	0	0	1	3		19
	0	2	0	0	1	3		
	0	0	0	0	1	1		
Total Avg for error letters						2.33333	0.0208	
Represent Error letters in each repetition	0	3	3	3	0	9		20
	0	12	0	3	9	24		
	0	3	9	5	9	26		
Total Avg for error letters						19.6667	0.1756	
Represent Error letters in each repetition	0	1	2	3	0	6		21
	0	1	0	3	1	5		
	0	1	0	3	0	4		
Total Avg for error letters						5	0.0446	
Represent Error letters in each repetition	0	24	5	1	1	31		22
	1	20	0	1	1	23		
	16	36	0	0	4	56		
Total Avg for error letters						36.6667	0.3274	
Represent Error letters in each repetition	1	1	4	0	3	9		23
	1	4	4	0	0	9		
	1	1	4	2	2	10		
Total Avg for error letters						9.33333	0.0833	
Represent Error letters in each repetition	0	5	5	0	1	11		24
	2	7	5	0	1	15		
	2	2	5	0	1	10		
Total Avg for error letters						12	0.1071	

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Represent Error letters in each repetition	0	2	0	1	1	4		25
	16	36	4	19	0	75		
	0	2	0	1	1	4		
Total Avg for error letters						27.6667	0.2470	
Represent Error letters in each repetition	7	17	0	1	4	29		26
	5	19	1	8	3	36		
	0	2	4	1	2	9		
Total Avg for error letters						24.6667	0.2202	
Represent Error letters in each repetition	0	2	0	0	3	5		27
	0	2	0	0	3	5		
	0	2	0	0	4	6		
Total Avg for error letters						5.33333	0.0476	
Represent Error letters in each repetition	0	0	0	1	0	1		28
	0	0	0	1	0	1		
	0	0	0	1	0	1		
Total Avg for error letters						1	0.0089	
Represent Error letters in each repetition	0	0	0	0	0	0		29
	0	0	5	0	9	14		
	0	0	0	0	5	5		
Total Avg for error letters						6.33333	0.0565	
Represent Error letters in each repetition	0	13	7	0	6	26		30
	0	13	11	0	6	30		
	0	12	7	0	0	19		
Total Avg for error letters						25	0.2232	
Represent Error letters in each repetition	2	13	16	0	9	40		31
	2	26	16	0	2	46		
	2	36	11	0	9	58		
Total Avg for error letters						48	0.4286	
Represent Error letters in each repetition	1	24	2	1	2	30		32
	1	7	5	1	4	18		
	1	6	5	1	4	17		
Total Avg for error letters						21.6667	0.1935	

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Represent Error letters in each repetition	0	2	5	1	1	9		33
	0	2	3	1	1	7		
	0	2	3	1	1	7		
Total Avg for error letters						7.66667	0.0685	
Represent Error letters in each repetition	16	20	0	8	5	49		34
	16	16	3	8	12	55		
	16	10	0	11	4	41		
Total Avg for error letters						48.3333	0.4315	
Represent Error letters in each repetition	0	3	0	0	8	11		35
	1	4	0	0	8	13		
	1	5	0	0	8	14		
Total Avg for error letters						12.6667	0.113095	

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L. Supporting Articles to use One-Group Pretest and Posttest Design.

Reference	Description of Study
Shadish et al.	Quasi-Experimental Designs That Either Lack a Control Group or Lack Pretest Observations on the Outcome, chapter 4.
(Gurevich, O., et al,. 2010)	Incidental verbatim memory for language
(Campbell, D. T., & Stanley, J. C, 2015)	Experimental and Quasi-Experimental Designs for Research
(Melby-Lervåg, M., & Hulme, C. 2013)	Is Working Memory Training Effective? A Meta-Analytic Review
(Zylowska, L., et al.,2008)	Mindfulness Meditation Training in Adults and Adolescents With ADHD
(Campuzano, M. T. et al., 2013)	The Effect of Associative Memory Exercises in Older Adults
(Hitchcock, C., et al., 2016)	The effects of autobiographical memory flexibility (MemFlex) training: An uncontrolled trial in individuals in remission from depression
(Holmes, J., et al., 2010)	Working Memory Deficits can be Overcome: Impacts of Training and Medication on Working Memory in Children with ADHD
(HOLMES, J., et al., 2009)	Working Memory Deficits can be Overcome: Impacts of Training and Medication on Working Memory in Children with ADHD
(Mezzacappa, E., & Buckner, J. C. 2010)	Working Memory Training for Children with Attention Problems or Hyperactivity: A School-Based Pilot Study

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M. Supporting letter from Supervisor:

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21/11/2014

TO WHOM IT MAY CONCERN

This is to certify that the person by the name **Omar Ibrahim** is a PhD student under my supervision. His thesis title is **Quranic Multimedia Memory Model for Memorization of the Holy Quran**. He has shown very keen interest to work on this project. This project aims to construct the right Quranic Memorization Model to be used in the future teaching and learning process in primary schools.

In order for him to construct the right memorization model for The Holy Quran, he relies on the real data captured from Libyan primary school. Hence, we are writing this letter to request for your kindest consideration in granting access to your classes for the purpose of experimentation of which the activity of the students in memorization is recorded. Your permission and cooperation to make this project a success is highly appreciated.

Thank you,

Yours sincerely,

Dr. Qais Faryadi
Senior Lecturer
Faculty of Science and Technology
Universiti Sains Islam Malaysia

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Thesis Supervisor
Faculty of Science and Technology
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N. Supporting letter from Libyan embassy

Embassy of Libya / Malaysia
Academic Affairs

سفارة ليبيا/ماليزيا
الشؤون الأكاديمية

OUR REF: FL/S9205/10
25/11/2014

TO WHOM IT MAY CONCERN

The Embassy of Libya in Kuala Lumpur writes to kindly inform you that **MR. OMAR IBRAHIM MASSOUD HAMMZA**, is a Libyan national, holding Passport No: 612597. He is a Libyan scholarship student studying for the PhD in the USIM university. We understand that MR. OMAR is required to get access to the Libyan school in Kuala Lumpur as part of fulfilling the requirements of his PhD experimental work.

The Embassy hereby writes to confirm its full support for the student to conduct his research within the vicinity of the school. He is permitted to make any interviews with the students and the staff aiming to fulfil the goals of his research.

Yours faithfully,

Embassy of Libya
Kuala Lumpur

L-Scholarship abdulmajid

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