

**ONLINE QUESTIONNAIRE DATA ANALYSIS SYSTEM
(OQDAS)**

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ABSTRACT

The aim of this project is to develop an Online Questionnaire Data Analysis System (OQDAS) for researchers in University Utara Malaysia. This system enables research questionnaires to be deployed via a web page and provide a great source of information to all UUM researchers. By developing this project, it helps the researcher to perform survey easily, cost-effectively, and time shortly. In addition, analytical results reported in PDF file automatically. As well, a prototyping as a part of the traditional SDLC approach will be chosen as a guide to develop OQDAS.

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TABLE OF CONTENT

PERMISSION TO USE	I
ABSTRACT	II
ACKNOWLEDGEMENT	III
TABLE OF CONTENT	IV
LIST OF TABLES	VII
LIST OF FIGURES	VIII
1. INTRODUCTION	1
1.2. PROBLEM STATEMENT	2
1.3. RESEARCH QUESTION	3
1.4. RESEARCH OBJECTIVE	3
1.5. RESEARCH SCOPE	3
1.6. RESEARCH SIGNIFICANT	4
1.7. SUMMARY	5
1.8. REPORT STRUCTURE	5
2. LITERATURE REVIEW	6
2.1. INTRODUCTION	6
2.2. WEB-BASED TECHNOLOGY	6
2.2.1. <i>Preview of the Internet</i>	6
2.2.2. <i>Web-Based Application</i>	6
2.2.3. <i>Web-Based Application Classes</i>	7
2.3. ONLINE SURVEYS & THEIR ADVANTAGES	7
2.4. DATA ANALYSIS TOOLS	8
2.4.1. <i>Microsoft Excel</i>	9
2.4.2. <i>Statistical Package for the Social Sciences (SPSS)</i>	10
2.5. RELATED WORK	10
2.5.1. <i>KeySurvey</i>	10
2.5.2. <i>WebSurveyor</i>	11
2.5.3. <i>WWW Survey Assistant</i>	11
2.5.4. <i>Hosted Survey</i>	11
2.6. SUMMARY	12
3. RESEARCH METHODOLOGY	14
3.1. INTRODUCTION	14
3.2. PROJECT PLANNING	15
3.3. REQUIRMENT DEFINITION	15
3.4. DESIGN	15
3.5. DEVELOPMENT	16
3.6. TESTING	24
3.7. SUMMARY	25
4. ANALYSIS, DESIGN AND FINDINGS	26
4.1. INTRODUCTION	26
4.2. REQUIREMENTS ANALYSIS	26
4.2.1. <i>Functional Requirements</i>	27

4.2.2.	<i>QUESTIONS TYPES</i>	30
4.2.3.	<i>DATA ANALYSIS TYPES</i>	30
4.2.3.1.	Frequency Analysis	31
4.2.3.2.	Description Statistics	31
4.2.3.3.	Correlation Analysis.....	33
4.2.3.4.	Regression Analysis.....	33
4.3.	SYSTEM DESIGN.....	33
4.3.1.	<i>USE CASE SPECIFICATION</i>	33
4.3.1.1.	Login [OQDAS_01].....	33
4.3.1.2.	View Researchers [OQDAS_02].....	35
4.3.1.3.	Approve Researchers [OQDAS_03].....	36
4.3.1.4.	Delete Researchers [OQDAS_04].....	37
4.3.1.5.	Change DB settings [OQDAS_05].....	38
4.3.1.6.	Change Admin's Email [OQDAS_06].....	39
4.3.1.7.	Change Admin's Password [OQDAS_07].....	40
4.3.1.8.	Create Account [OQDAS_08].....	41
4.3.1.9.	Create Survey [OQDAS_09].....	42
4.3.1.10.	View Survey [OQDAS_10].....	44
4.3.1.11.	Activate Survey [OQDAS_11].....	45
4.3.1.12.	Update Survey [OQDAS_12].....	46
4.3.1.13.	Delete Survey [OQDAS_13].....	48
4.3.1.14.	Send Invitation Email [OQDAS_14].....	49
4.3.1.15.	Generate Report [OQDAS_15].....	51
4.3.1.16.	Export Answers [OQDAS_16].....	52
4.3.1.17.	Print Survey [OQDAS_17].....	53
4.3.1.18.	Change Password [OQDAS_18].....	54
4.3.1.19.	Take Survey [OQDAS_19].....	55
4.3.2.	<i>SEQUENCE DIAGRAMS</i>	56
4.3.3.	<i>COLLABORATION DIAGRAMS</i>	56
4.3.4.	<i>SNAPSHOTS</i>	56
4.4.	SUMMARY	57
5.	EVALUATION AND TESTING.....	58
5.1.	INTRODUCTION.....	58
5.2.	EVALUATION TECHNIQUES	58
5.3.	UNIT TESTING.....	58
5.3.1.	<i>Unit Tests Procedures</i>	59
5.3.2.	<i>Unit Test Report</i>	64
5.4.	INTEGRATION TESTING	65
5.4.1.	<i>Integration Tests Procedures</i>	65
5.4.2.	<i>Integration Test Report</i>	73
5.5.	ACCEPTANCE TESTING	75
5.6.	SUMMARY	76
6.	CONCLUSION.....	78
6.1.	INTRODUCTION.....	78
6.2.	CONCLUSION OF THE STUDY.....	78
6.3.	LIMITATIONS AND CONSTRAINTS.....	79
6.4.	RECOMMENDATION(S).....	79
7.	REFERENCES.....	80

8.	APPENDICES	84
8.1.	APPENDIX A: GANTT CHART	84
8.2.	APPENDIX B: QUESTION TYPES	85
8.3.	APPENDIX C: SEQUENCE DIAGRAMS	87
8.4.	APPENDIX D: COLLABORATION DIAGRAMS	119
8.5.	APPENDIX E: INSTALLATION GUIDELINES.....	128
8.6.	APPENDIX F: SNAPSHOTS	138

LIST OF TABLES

TABLE 2.1: WEB APPLICATION CATEGORIES	7
TABLE 2.2: COMPARISON BETWEEN OQDAS, KEYSURVEY, AND WEBSURVEYOR.....	12
TABLE 3.1: LIST OF FUNCTIONAL REQUIREMENTS	27
TABLE 4.2: EXPECTED FREQUENCY TABLE PRODUCED BY OQDAS.	31
TABLE 4.3: EXPECTED DESCRIPTION STATISTICS TABLE	32
TABLE 5.1: UNIT TEST ACTIVITIES.....	59
TABLE 5.2: UNIT TEST SUMMARY	64
TABLE 5.3: INTEGRATION TESTS OF CREATE ACCOUNT FUNCTION	66
TABLE 5.4: ACTIVITIES OF INTEGRATION TEST OF CREATE ACCOUNT FUNCTION	66
TABLE 5.5: INTEGRATION TESTS OF CREATE SURVEY FUNCTION.....	67
TABLE 5.6: ACTIVITIES OF INTEGRATION TEST OF CREATE SURVEY FUNCTION	68
TABLE 5.7: INTEGRATION TESTS OF TAKE SURVEY FUNCTION	69
TABLE 5.8: ACTIVITIES OF INTEGRATION TEST OF TAKE SURVEY FUNCTION	70
TABLE 5.9: INTEGRATION TESTS OF CHANGE PASSWORD FUNCTION	70
TABLE 5.10: ACTIVITIES OF INTEGRATION TEST OF CHANGE PASSWORD FUNCTION.....	71
TABLE 5.11: INTEGRATION TESTS OF UPDATE SURVEY FUNCTION	71
TABLE 5.12: ACTIVITIES OF INTEGRATION TEST OF UPDATE SURVEY FUNCTION	72
TABLE 5.13: INTEGRATION TESTS OF DELETE SURVEY FUNCTION.....	72
TABLE 5.14: ACTIVITIES OF INTEGRATION TEST OF DELETE SURVEY FUNCTION.....	73
TABLE 5.15: INTEGRATION TEST SUMMARY	74
TABLE 5.16: FUNCTIONAL TESTING.....	76
TABLE 5.17: TESTING TYPES & TESTING DELIVERABLE	77

LIST OF FIGURES

FIGURE 3.1: PROTOTYPING AS PART OF SDLC.....	14
FIGURE 3.2: LOGIN INTERFACE.....	17
FIGURE 3.3: VIEW RESEARCHERS INTERFACE.....	17
FIGURE 3.4: APPROVE RESEARCHERS INTERFACE.....	18
FIGURE 3.5: DELETE RESEARCHERS INTERFACE.....	18
FIGURE 3.6: CHANGE DB SETTINGS INTERFACE.....	18
FIGURE 3.7: CHANGE ADMIN EMAIL INTERFACE.....	19
FIGURE 3.8: CHANGE ADMIN PASSWORD INTERFACE.....	19
FIGURE 3.9: SIGNUP INTERFACE.....	20
FIGURE 3.10: CREATE SURVEY INTERFACES.....	20
FIGURE 3.11: VIEW SURVEY INTERFACES.....	20
FIGURE 3.12: ACTIVATE SURVEY INTERFACE.....	21
FIGURE 3.13: UPDATE SURVEY INTERFACE.....	21
FIGURE 3.14: DELETE SURVEY INTERFACE.....	22
FIGURE 3.15: INVITATION EMAIL INTERFACE.....	22
FIGURE 3.16: GENERATE REPORT INTERFACE.....	22
FIGURE 3.17: EXPORT ANSWERS INTERFACE.....	23
FIGURE 3.18: PRINT SURVEY INTERFACE.....	23
FIGURE 3.19: CHANGE PASSWORD INTERFACE.....	23
FIGURE 3.20: PARTICIPANT INTERFACE.....	24
FIGURE 4.1: EXPECTED FREQUENCY DISTRIBUTION GRAPH PRODUCED BY OQDAS.....	31
FIGURE 4.2: LOGIN USE CASE.....	33
FIGURE 4.3: VIEW RESEARCHERS USE CASE.....	35
FIGURE 4.4: APPROVE RESEARCHERS USE CASE.....	36
FIGURE 4.5: DELETE RESEARCHERS USE CASE.....	37
FIGURE 4.6: CHANGE DB SETTINGS USE CASE.....	38
FIGURE 4.7: CHANGE ADMIN EMAIL USE CASE.....	39
FIGURE 4.8: CHANGE ADMIN PASSWORD USE CASE.....	40
FIGURE 4.9: SIGNUP USE CASE.....	41
FIGURE 4.10: CREATE SURVEY USE CASES.....	42
FIGURE 4.11: VIEW SURVEY USE CASES.....	44
FIGURE 4.12: ACTIVATE SURVEY USE CASE.....	45
FIGURE 4.13: UPDATE SURVEY USE CASE.....	46
FIGURE 4.14: DELETE SURVEY USE CASE.....	48
FIGURE 4.15: INVITATION EMAIL USE CASE.....	49
FIGURE 4.16: GENERATE REPORT USE CASE.....	51
FIGURE 4.17: EXPORT ANSWERS USE CASE.....	52
FIGURE 4.18: PRINT SURVEY USE CASE.....	53
FIGURE 4.19: CHANGE PASSWORD USE CASE.....	54
FIGURE 4.20: TAKE SURVEY USE CASE.....	55
FIGURE 5.1: INTEGRATION TESTS OF CREATE ACCOUNT FUNCTION.....	65
FIGURE 5.2: INTEGRATION TESTS OF CREATE SURVEY FUNCTION.....	67
FIGURE 5.3: INTEGRATION TESTS OF TAKE SURVEY FUNCTION.....	69

FIGURE 5.4: INTEGRATION TESTS OF CHANGE PASSWORD FUNCTION..... 70
FIGURE 5.5: INTEGRATION TESTS OF UPDATE SURVEY FUNCTION. 71
FIGURE 5.6: INTEGRATION TESTS OF DELETE SURVEY FUNCTION..... 72

CHAPTER ONE

INTRODUCTION

1.1. INTRODUCTION

Educational institutions and universities employ scientific research as one of the means and tools to access data, information, knowledge and theories that are used to explain and understand social phenomena. Researchers have considered two approaches in gathering information for the purposes of research and study: Quantitative Approach and Qualitative Approach (McBurney & White, 2009).

As reported by Roztocki and Lahri (2003), a questionnaire is the most widely used quantitative research method. Survey questionnaires consist of a set of questions that are related to each other in ways that help to achieve research's goal. Paper based questionnaire has always had the disadvantages such as the number of potential participants is limited, questionnaire distribution is slower and much more.

According to Singh, Taneja, and Mangalaraj (2009), online questionnaire is becoming a great replacement to traditional paper and mail-based questionnaires to collect data for questionnaire research. Online questionnaires are used to compensate for serious inherited disadvantages of traditional formats, where the Web provides an opportunity to compensate for the deficiency of slow distribution, return time and other disadvantages of traditional format (Pargas, Witte, Brand, Hochrine, & Staton, 2003).

Aside from the variety of aspects, Data analysis is a process in which collected data is organized so that meaningful information can be discovered from it. Organizing data is the fundamental process of understanding what the data is about and what the data does or does not. People can analyze the data in different ways, and manipulating data during the analysis stage is not easy at all, as it may lead to certain conclusions. For this reason, it is essential to be careful when analyzing the data, and to think deeply about the data and the outputs which were extracted.

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