

FINAL YEAR PROJECT REPORT

ONLINE EXAMINATION SYSTEM

In fulfillment of the requirement for degree of BS (Engineering)

By

Syed Ali Yasir Abbas	20440
Waleed Amanullah	20443
Inamullah Buksh	20424

Supervised By

Mr. Muhammad Tariq Siddique

Co-Supervised By

Mr. Shahid Khan

Bahria University (Karachi Campus)

ACKNOWLEDGEMENTS

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express our gratitude to our project supervisor, Mr. Muhammad Tariq Siddique and co-supervisor Mr. Shahid Khan for their invaluable advice, guidance and their enormous patience throughout the development of the project.

In addition, we would also like to express our gratitude to our loving parents and friends who had helped and given us encouragement.

ONLINE EXAMINATION SYSTEM FOR EMBELLISH SCHOOLING SYSTEM

ABSTRACT

"Online Examination System" provides the schools with an effective and convenient way to assess the students' learning. Teachers can make use of "Online Examination System" and the online question bank to set tests according to students' abilities and teachers' teaching. It provides teachers with information about students which is useful for teaching. It is believed that a good online assessment system can raise students' learning abilities through helping students to assess themselves continuously.

TABLE OF CONTENTS

DECLAR	ATION			ii
APPROV	AL FOR	SUBMIS	SSION	iv
ACKNO	VLEDGE	EMENTS		vi
ABSTRA	CT			viii
TABLE (F CONT	ENTS		ix
LIST OF	TABLES		Parties of System Progression	xii
LIST OF	FIGURE	S		XV
LIST OF	SYMBO	LS / ABE	REVIATIONS	xvi
LIST OF	APPEND	ICES		xviii
СНАРТЕ	R			
1	INTI	RODUCT	CION	19
	1.1	Backg	round	19
	1.2	Proble	em Statements	19
	1.3	Aims	and Objectives	20
	1.4	Scope	of Project	20
		•		
2	LITE	ERATUR	E REVIEW	21
	2.1	Review of Literature		21
	2.2	Text N	Mining	22
	2.3	Metho	dology of text mining	22
	2.4	Resear	Research Work Related To OES	
		2.4.1	Fingerprint	23
		2.4.2	Anti- Cheat Strategy	24
		2.4.3	User-Defined Questions	24

3	DESI	GN AND	METHODOLOGY	25	
	3.1		rement Analysis Techniques	25	
		3.1.1	Preface	25	
		3.1.2	Introduction	25	
		3.1.3	Glossary	25	
	3.2	User R	equirements Definition	26	
		3.2.1	The producnt and process features	26	
	3.3	System	n Arhitecture	27	
	3.4	Function	Functional System		
	3.5	Non-F	Non-Functional System Requirements		
		3.5.1	Performance Requirements	29	
		3.5.2	Safety Requirements	30	
		3.5.3	Security Requirements	30	
	3.6	System	1 Interfaces	30	
		3.6.1	User Interfaces	30	
		3.6.2	Hardware Interfaces	31	
		3.6.3	Software Interfaces	31	
		3.6.3	Communication Interfaces	31	
	3.7	Algorit	thm	31	
	3.8	Process	s Model	32	
		3.8.1	Incremental Model	32	
	3.9	Contex	t Diagram	33	
	3.10	Use Ca	se Model Diagram	34	
		3.10.1	Create Student & Teacher Profile	35	
		3.10.2	Create Subject & Classes	37	
		3.10.3	Test Evaluation	39	
		3.10.4	Create Question Paper	41	
		3.10.5	View Exam Status	44	
		3.10.6	View and Edit Profile	45	
		3.10.7	Request for Result	47	
		3 10 8	Attempt Pener	18	

3.11	Design Use Case Document			
	3.11.1	Create Student and Teacher Profile	50	
	3.11.2	Create Subject and Classes	53	
	3.11.3	Test Evaluation	55	
	3.11.4	Create Question Paper	57	
	3.11.5	View Exam Status	60	
	3.11.6	View and Edit Profile	62	
	3.11.7	Request for Result	64	
	3.11.8	Attempt Paper	66	
3.12	Activity	y Diagram	68	
3.13	Sequen	ce Diagram	69	
3.14	Schedu	71		
3.15	Work B	Breakdown Structure	72	
3.16	Graphical User Interface of OES			
	3.16.1	Administator Role	73	
	3.16.2	Administator Dashboard	73	
	3.16.3	Student Profile	74	
	3.16.4	Test Display Window	75	
	3.16.5	Test View Window	75	
	3.16.6	Test Start Window	76	
	3.16.7	Objective Question Sheet Window	76	
	3.16.8	Subjective Question Window	77	
	3.16.9	Answer Status Window	77	
	3.16.10	Result Window	78	
	3.16.11	Exam Summary	78	
3.17	Data Flow Diagram			
3.18	Entity Relationship Diagram			
3.19	Methodology			

4	IMPL	MENTA	TION	88
	4.1	Projec	t Development Tools and Languages	88
		4.1.1	Development Tools	88
		4.1.1	Development Languages	88
	4.2	Descri	ption	88
	4.3	Coding	g	92
5	RESU	LTS AN	D DISCUSSIONS	134
	5.1	Testing	g &Evaluation	134
	5.2.	Test C	ases	136
		5.2.1	Administrator Login	. 136
		5.2.2	Registering Teacher	137
		5.2.3	Registering Student	139
		5.2.4	Aptitude Test	141
		5.2.5	Student Login	142
		5.2.6	Examiner Login	143
		5.2.7	Student Test	144
		5.2.8	Descriptive Algorithm	145
6	Conclu	ısion An	d Recommendations	146
	5.1	Conclu	sion	146
	5.2.	Recom	mendations	146
REFER	ENCES			. 147
APPEN	DICES			149
LYT I TIL	DICEO.			147