



Effective Educational Website For Children

**A project report submitted in partial fulfilment of the
requirements for the award of the degree of
Bachelor of Information Technology**

By

Abdulrahman obaid alharbi

362103073

Supervised By

Dr. Adel Theljeoui

**Department of Computer Science
Faculty of Computers and Information Technology
University of Majmaah**

2020

DECLARATION

I hereby declare that this project report is based on my original work except for citations and quotations which have been duly acknowledged. I also declare that it has not been previously and concurrently submitted for any other degree or award at University of Majmaah or other institutions.

Name	ID No.	Signature
Abdulrahman obaid alharbi	362103073	362103073

Date : _____

APPROVAL FOR SUBMISSION

I certify that this project report entitled “**EFFECTIVE EDUCATIONAL WEBSITE FOR CHILDREN**” was prepared by **Abdulrahman obaid alharbi**, has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of Computer Science at University of Majmaah.

Approved by,

Signature : _____

Supervisor : Dr. Adel Thaljawi

Date : _____

The copyright of this report belongs to the author and is protected under the intellectual property right laws and conventions. It can only be considered/used for purposes like extension for further enhancement, product development, adoption for commercial/organizational usage, etc., with the permission of the University of Majmaah.

© 2020, The AI Group. All right reserved.

Specially dedicated to
my beloved grandmother, mother and father

ACKNOWLEDGEMENTS

I would like to thank everyone who had contributed to the successful completion of this project. I would like to express my gratitude to my research supervisor, Dr. Adel Thaljawi for his invaluable advice, guidance and his enormous patience throughout the development of the research.

In addition, I would also like to express my gratitude to my loving parent and friends who had helped and given me encouragement.....

EFFECTIVE EDUCATIONAL WEBSITE FOR CHILDREN

ABSTRACT

Internet has become important part in the life to meet all demands for many fields in the current era. Companies, universities, schools, homes and so on depend on the internet for the implementation of tasks. That proves its importance of life with significant impacts.

Meanwhile many of the challenges and problems of using Internet have emerged. The children are easily influenced and molded in this stage of their life and do not have sufficient experience to protect themselves against the dangers of the Internet. They need helps to use the internet services in effective and safe manner. There is a great need to create secure, modern and powerful systems to serve them.

In this project we create an effective educational website for children. It aims at providing a secure and efficient site with privacy protection for the children. It contains many of useful services that are appropriate for their ages.

The website enables children to enjoy the advantage of the internet accesses. It contributes to the protection of children from harmful web sites. The administrator has total control of the accesses from teachers, parents, and students. The design of the database and their server side scripts not only ensure the privacy protection but also provide table records for any official auditing. The system makes sure parents can only see the records of their children. The teachers can only see the records of their students. The students can only see the comments of their teachers and parents..

TABLE OF CONTENTS

DECLARATION	ii
APPROVAL FOR SUBMISSION	iii
ACKNOWLEDGEMENTS	vi
ABSTRACT	vii
TABLE OF CONTENTS	viii
LIST OF TABLES	x
LIST OF FIGURES	xi
LIST OF ABBREVIATIONS	xii
LIST OF APPENDICES	xiii

CHAPTER

1	INTRODUCTION	14
	1.1 Background	14
	1.2 Problem overview	15
	1.3 Aims and Objectives	15
	1.4 Report's Layout	17
2	System Analysis and Specification	18
	2.1 Introduction	18
	2.2 Data flow diagram	19
	2.3 Dataflow diagram	20
	2.4 Sequence diagram	22
	2.5 Use case diagram	22

3	System design	24
3.1	Description of procedures and function	24
3.2	Relation database schema	25
3.3	Hardware and software requirements	33
4	Implementation and Testing	35
4.1	Introduction	35
4.2	Procedures	36
4	<i>Tasks Schedule</i>	36
4.1	Project interface	36
5	CONCLUSION AND RECOMMENDATIONS	41
5.1	CONCLUSION	41
5.2	RECOMMENDATIONS	41
	REFERENCES	42
	APPENDICES	43

LIST OF TABLES

TABLE	TITLE	PAGE
Table 1:	Age levels	16
Table 2 :	Service type	16
Table 3:	Admin Table	25
Table 4:	ArabicSetting Table	26
Table 5:	ComputerSetting Table	26
Table 6:	DrawingSetting Table	27
Table 7:	EnglishSetting table	27
Table 8:	MathsSetting Table	28
Table 9:	Message Table	28
Table 10:	MusicSetting table	29
Table 11:	Rgister table	29
Table 12:	ScienceSetting table	30
Table 13:	Search table	30
Table 14:	TeachingComments table	31
Table 15:	TeachetRegister table	31
Table 16:	ParentsRegister table	32
Table 17:	Suggestions table	32
Table 18:	ContactTeacher table	32
Table 19:	Tasks Schedule	36

LIST OF FIGURES

FIGURE	TITLE	PAGE
Figure 1:	Data flow diagram	20
Figure 2:	Dataflow diagram	21
Figure 3:	Sequence diagram	22
Figure 4:	use case diagram	23
Figure 5:	software project plan	36
Figure 6:	home page	37
Figure 7:	public services	38
Figure 8:	about us page	39
Figure 9:	Teachers page	39
Figure 10:	Lessons page	40

LIST OF ABBREVIATIONS

RAM	Random Access Memory
ROM	Read Only Memory
SMU	Secondary Memory Unit
CPU	Central Processing Unit
OS	Operating System
DB	Database
DBMS	Database Management System
SQL	Structured Query Language
DLL	Dynamic Link Library
Hz	Hertz
MHz	Mega Hertz
BIOS	Basic Input Output System
bit	Binary digit
CD	Compact Disk
DFD	Data Flow Diagram
DML	Data Manipulation Language
DSN	Database Source Name
DSN	Data Set Name

LIST OF APPENDICES

APPENDIX	TITLE	PAGE
APPENDIX A:	Graphs	43

CHAPTER 1

INTRODUCTION

1.1 Background

The project idea is to design and create a web site for children to support many of services in educational and entertainment field for different age groups for children. The most important features which offered by the site is that the appropriate services are related to required age.

The website is interested in improving the children skills by support many of courses in field such as IQ test in levels, beginning, middle and advanced stages, all that providing by the website related to the selected age from 4 to 13 years.

The website supports educational program for stages which covering seven materials and school functions by communicating with teamwork from teachers who have effective experience in the hardest material from math, language skills and other fields.

The website provides communication between students and teachers to improve student's skills and overcome of the problems facing students in education.

The teachers can follow the students, support many of tasks, and help students by offering educational purposeful explanations of videos in fun and interesting ways.

On the other side, the website provides entertaining and fun services such as games, cartoon, kids' songs, music and other thing that preferred from children..

1.2 Problem overview

The research problem about designing completed effective system in web browser for children showing all benefit from educational and entertaining information such as: learning lectures, games, stories and so on for many level ages.

The research interested in collection in many fields from information it the site to make it more effective and exciting. Many of the last research talk about one part such as games or learning in the site but that not making the exciting and attraction for the site and sometimes showing some Photos and videos harmful and immoral and effect to children leading the emergence of crime.

source part who produce bad or dangers is advertising the products and published it in Subtle ways without showing it in clearly way in the internet pages that making a lot of difficult in controlling that source for that. So more strong and effective programming system will be used to apply the security and controlling project idea in the research.

Achieving the success in the construction of the site depending on not only building that using a strong programming system and depending in making the interfaces from the site in wonderful and beautiful shape.

1.3 Aims and Objectives

The main objectives in the project are to provide the suitable services protection system for each age level. So I will study the idea in real life and collect information about main services for the children and make the website more attractive and effective.

The services will be divided into five levels, the details as show in the following tables. Table 1 indicates the age, the related levels, and the services provided. Table 2 lists the education and entertaining service types.

Table 1:Age levels

Age(years)	Level	Services
4-6	Level 1	Educational/ Entertaining
7-8	Level 2	Educational/ Entertaining
9-11	Level 3	Educational/ Entertaining
12-13	Level 4	Educational/ Entertaining

I will study the services, which need by children to make the website supporting all that.

Table 2 : Service type

Educational	Entertaining
courses	games
lectures	cartoons
tasks	music
IQ test	images
skills	drawing

The following are the details of the project objectives:

- Design educational effective website with protected system for children allows children to register it from the age of 4 years to 13 years.
- Ensure the access of student data follow strict privacy preserving rules and allow auditing.
- Make the site offers five educational and interesting services in an integrated, attractive and fun style.
- Provide search service for finding subjects using a system connected with database supervised every time by the admin.

- Supervise the website and follow-up constantly by the admin who controls and monitors all available services in the site using protected database using to save the services for all registered children.
- Provide many of educational lessons for children in various stages from 4 to 13 years and allow them to download and utilize it.
- Follow-up registered children on their performance and know their needs and suggestions.

The system provides a set of web pages with the following features:

- Parental can only access the data related to their children.
- Safe browsing within the system
- Advices about good food
- Information on how to improve the child's intelligence
- Happy stories which hold lessons and develop the child's ability to cope with situations
- Interesting cartoons to add fun to the web pages and attract children to use the proposed Children Browser

The system assists admin in its tasks of registering teachers, parents, and students. It provides restriction on data access and avoid affecting the system operation performance.

1.4 Report's Layout

The report includes from four chapters; chapter one is introduction, which shows background the project, problem overview, aims and objectives. The second chapter about related work discuss the past work about idea project and how solve the problems and improve current system. The third chapter about methodology and how apply the project idea and the last chapter show the output layout for the project.

CHAPTER 2

System Analysis and Specification

2.1 Introduction

After the advent of the Internet, which widely spread in all fields of Life, studies and research have been focused on the internet from advantages or disadvantages and make it more active in practical life.

The children are an important part of society. They have a large appetite for the Internet and use it for long periods that lead to the emergence of problems and dangers that affected the society in a negative way.

There are studies which are focused on children, and research how to protect them from any Risks. It will be hard work to create an integrated strategy to provide useful services for children in effective and interesting ways.

The use of the internet by children and adolescents is increasing dramatically which means the importance of providing a safe environment for them. There is an importance to understand the solution via the Internet to reduces the Gaps and risks which resulting from using it in wrong way (Farrukh, Sadwick, & Villasenor, 2014).

Direct controlling of the behaviour of children and their use of the Internet is the most important methods used to protect children from the dangers of the Internet. The parents in homes and the Teachers in schools are main agencies responsible for

their children and those closest to them in the longest periods so they must supervise and manage the children's use of the internet. (Smith, & Smith, 2009).

The interaction of children with the surrounding environment in various important stages of life is very important and the positive use of the internet is directly linked to gain the access for development of cognitive skills. Cognitive development means using the Internet with what is useful and staying away from all harmful sites to make the children effective member in life (Bowe, 2007).

Using the Internet for self-motivated informal way is the most important reason that led to the derailment of children, this mean it is importance to use the internet in formal ways in schools and control them in effective ways (Wallace, 2012).

This project is to protect the children from the internet and use it in an effective way. When children use the internet, they need a completed system that contains all services in an interesting and meaningful way.

2.2 Data flow diagram

Flow chart is a type of the diagram that represents an algorithm, workflow or process, showing the steps as boxes of various kinds, and their order by connecting them with arrows. This diagrammatic representation illustrates a solution model to a given problem. Flowcharts are used in analysing, designing, documenting or managing a process or program in various fields, Flowchart shown on the next page:

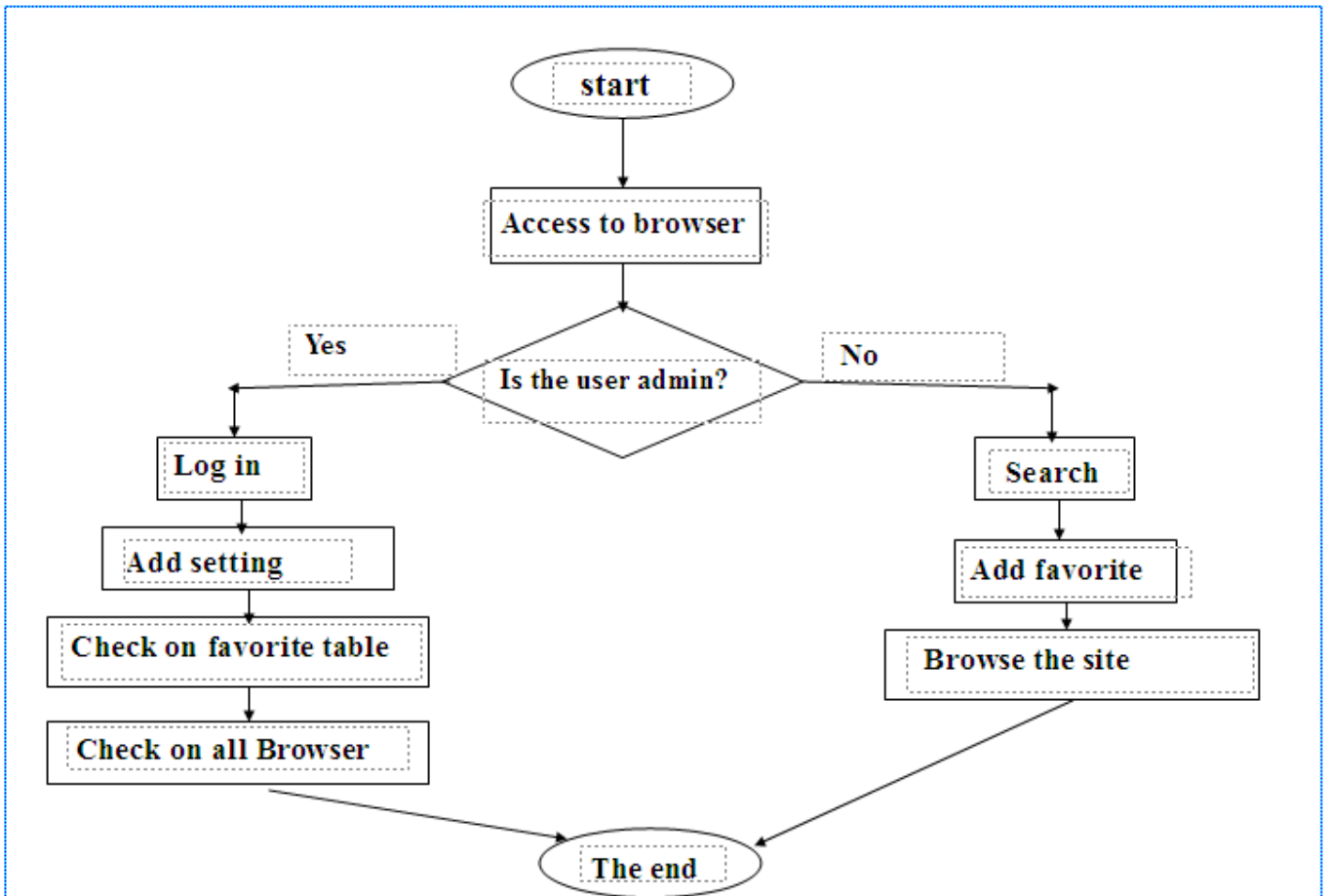


Figure 1:Data flow diagram

2.3 Dataflow diagram

Data flow diagram is a graphical representation of the "flow" of data through an information system, modelling its process aspects. A DFD is often used as a preliminary step to create an overview of the system, which can later be elaborated. DFDs can also be used for the visualization of data processing (structured design).[8]

A DFD shows what kind of information will be input to and output from the system, where the data will come from and go to, it does not show information about the timing of processes, or information about whether processes will operate in sequence or in parallel DFD shown on the next page.

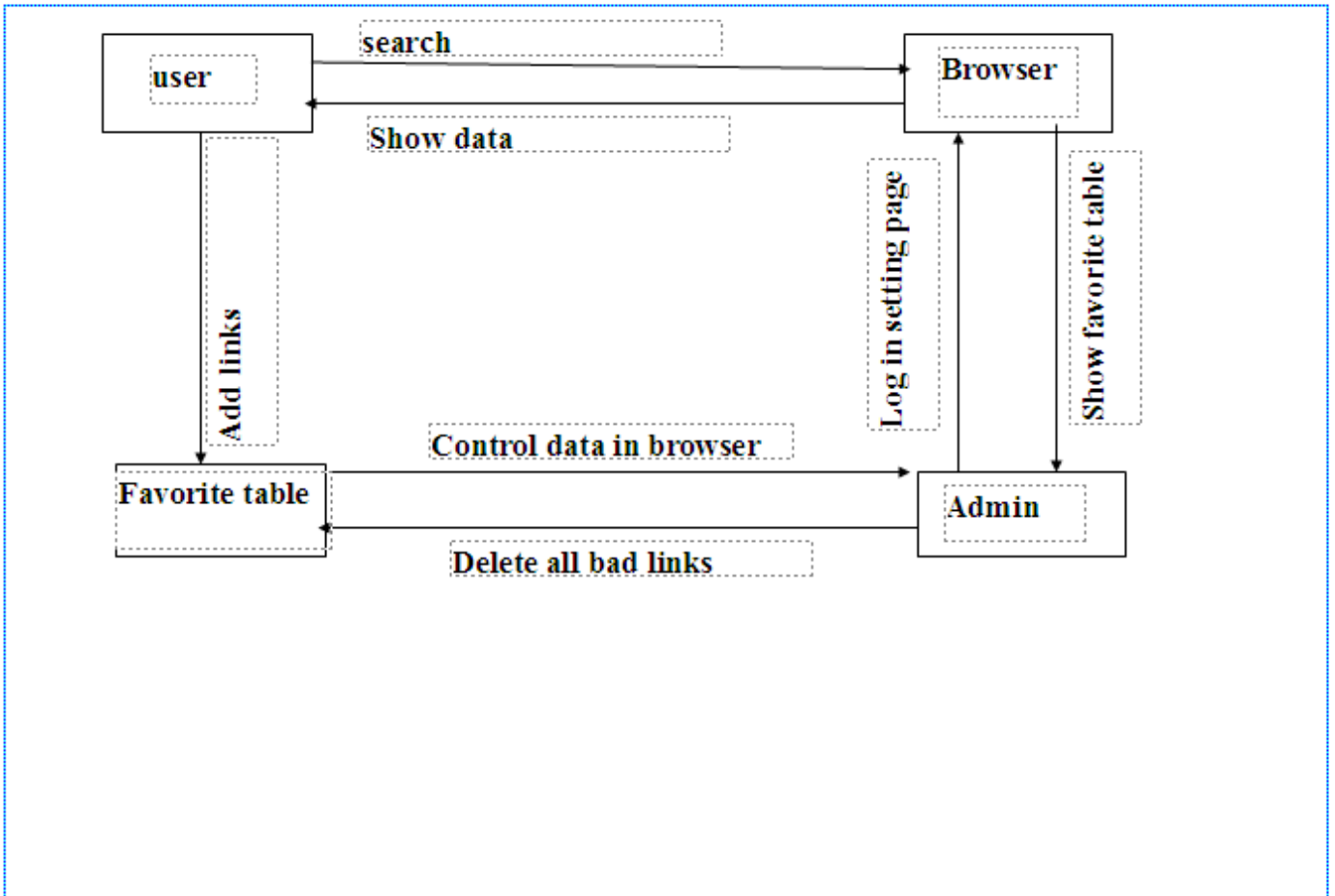


Figure 2:Dataflow diagram

2.4 Sequence diagram

Sequence diagrams show how processes operate with each other and in what order in a system.

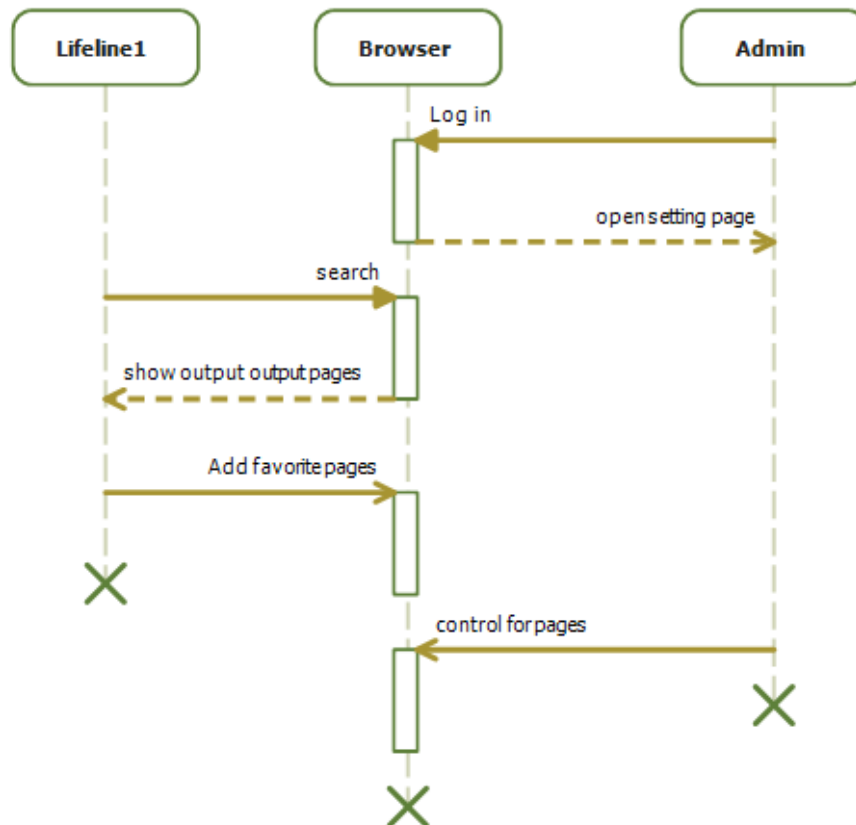


Figure 3:Sequence diagram

2.5 Use case diagram

A use case diagram at its simplest is a representation of a user's interaction with the system and depicting the specifications of a use case. A use case diagram can portray the different types of users of a system and the case and will often be accompanied by other types of diagrams as well. The Use Case Diagram of our project is show as below shape.

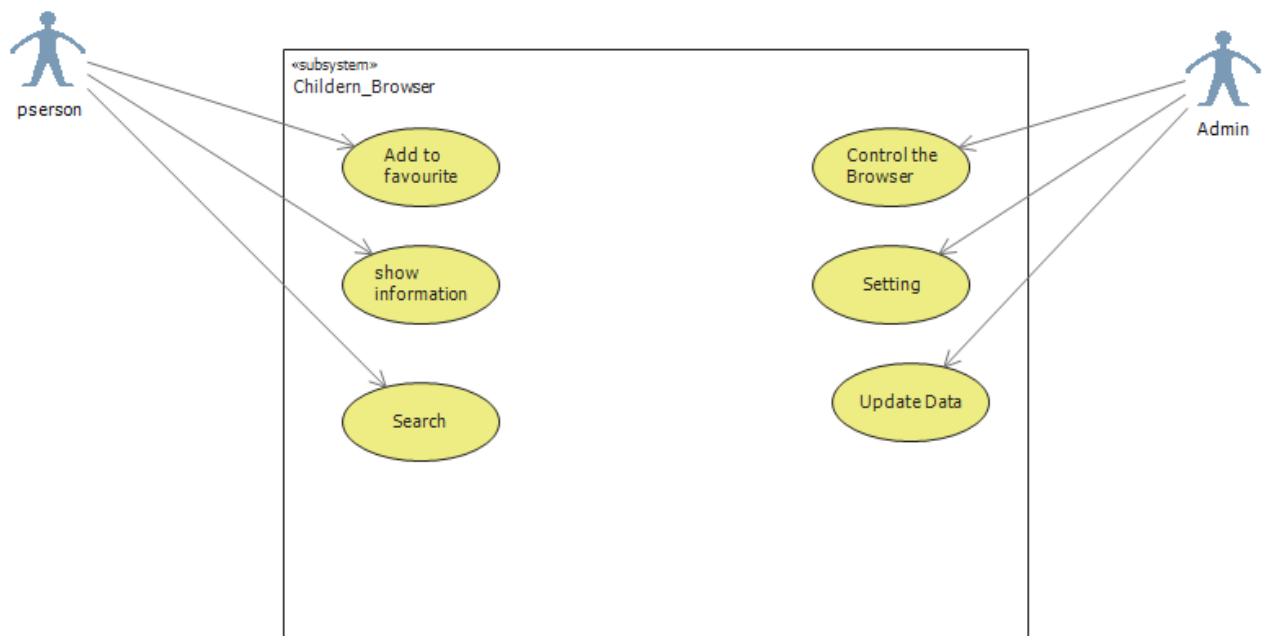


Figure 4:use case diagram

CHAPTER 3

System design

3.1 Description of procedures and function

After extensive studies about the protection of children from harmful sites the result is an interest in creating a solution by designing completed protected system. This will provide benefits for children through strategies. In this project the strategy selected is to create a website for children. Although there are many websites for children, there are many features that make this project different, effective, and distinct from the other site. The details are below:

- Provide a variety of services and educational lessons for different age stages so that a person can download the appropriate lessons for his/her age.
- The website is a completed protected system providing many of diverse and attractive services in Educational and recreational fields, although there are many children websites but are not completed because they are interested in Limited areas.
- Supervised the website every time by administrator who controls the site.
- Connected the website with strong database to save the services for all registered children.
- Follow-up of registered children and know their needs and suggestions.

- Providing search service for useful subjects and using the projected system connected with perfect database supervised every time by the admin.

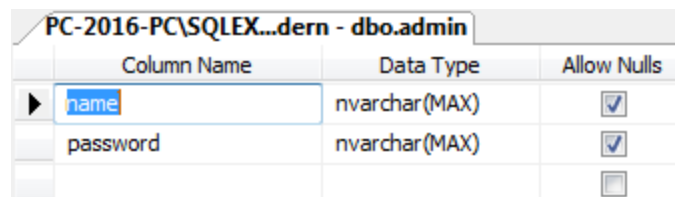
3.2 Relation database schema

The database is used to save data and information. There are more than a way to create databases and linking it with web pages, some developers create database internal way mean inside visual studio and other developers prefer to build database external mean outside visual studio. When create database external that mean using other program such as sql server 2016. In the project, the database has been built external using sql server 2016.

The children database contains from twelve (12) tables. The tables include: Admin table, ArabicSetting, ComputerSetting, DrawingSetting, EnglishSetting, MathsSetting1, message, MusicSetting, register, ScienceSetting, search and TeachingComments. The details about each tables as show bellow.

Admin Table

Table 3:Admin Table

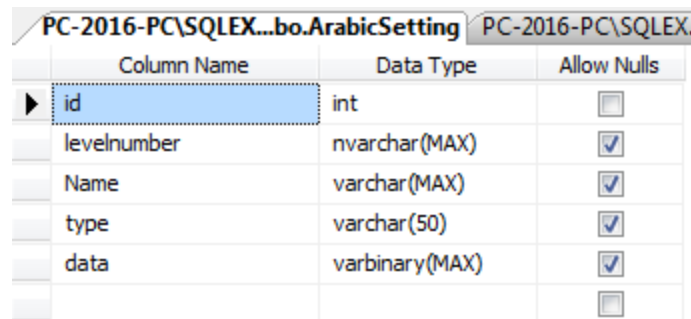


Column Name	Data Type	Allow Nulls
name	nvarchar(MAX)	<input checked="" type="checkbox"/>
password	nvarchar(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

The admin table contains data related to admin from name and password that using by admin to login website and access setting pages.

Arabic Setting Table

Table 4:ArabicSetting Table

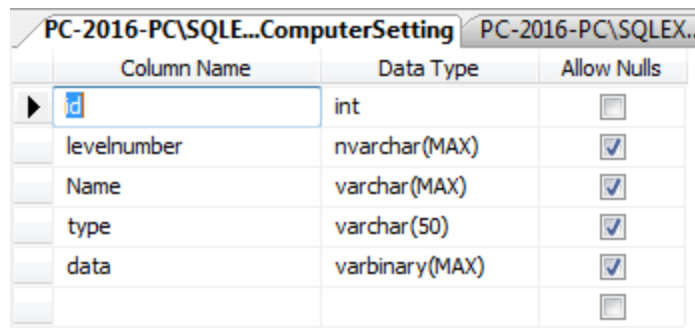


Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
Name	varchar(MAX)	<input checked="" type="checkbox"/>
type	varchar(50)	<input checked="" type="checkbox"/>
data	varbinary(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Arabic Setting Table save information about Arabic lessons. The admin control the table from project interface when login it and access in setting pages. In addition, the data for Arabic lesson has been shown in the user children website.

Computer Setting Table

Table 5:ComputerSetting Table



Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
Name	varchar(MAX)	<input checked="" type="checkbox"/>
type	varchar(50)	<input checked="" type="checkbox"/>
data	varbinary(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Computer Setting Table save information about computer lessons. The admin control the table from project interface when login it and access in setting pages. In addition, the data for Computer lesson has been shown in the user children website.

Drawing Setting Table

Table 6:DrawingSetting Table

PC-2016-PC\SQL...o.DrawingSetting		
Column Name	Data Type	Allow Nulls
▶ id	int	<input type="checkbox"/>
levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
Name	varchar(MAX)	<input checked="" type="checkbox"/>
type	varchar(50)	<input checked="" type="checkbox"/>
data	varbinary(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Drawing Setting Table save information about drawing lessons. The admin control the table from project interface when login it and access in setting pages. In addition, the data for drawing lesson has been shown in the user children website.

English Setting table

Table 7:EnglishSetting table

PC-2016-PC\SQL...bo.EnglishSetting		
Column Name	Data Type	Allow Nulls
▶ id	int	<input type="checkbox"/>
levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
Name	varchar(MAX)	<input checked="" type="checkbox"/>
type	varchar(50)	<input checked="" type="checkbox"/>
data	varbinary(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

English Setting Table save information about English lessons. The admin control the table from project interface when login it and access in setting pages. In addition, the data for English lesson has been shown in the user children website.

Math Setting Table

Table 8: MathsSetting Table

PC-2016-PC\SQLEX...bo.MathsSetting1			
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
	Name	varchar(MAX)	<input checked="" type="checkbox"/>
	type	varchar(50)	<input checked="" type="checkbox"/>
	data	varbinary(MAX)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Math Setting Table save information about Math lessons. The admin control the table from project interface when login it and access in setting pages. In addition, the data for Maths lesson has been shown in the user children website.

Message Table

Table 9: Message Table

PC-2016-PC\SQLEX...rn - dbo.message			
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	message	nvarchar(MAX)	<input checked="" type="checkbox"/>
	levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Message Table save information about message. The admin can show all messages from user and follow it.

Music Setting table

Table 10:MusicSetting table

Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
Name	varchar(MAX)	<input checked="" type="checkbox"/>
type	varchar(50)	<input checked="" type="checkbox"/>
data	varbinary(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

MusicSetting Table save information about Music lessons. The admin control the table from project interface when login it and access in setting pages. In addition, the data for Music lesson has been shown in the user children website.

Register table (students):

Table 11:Register table

Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
name	nvarchar(MAX)	<input checked="" type="checkbox"/>
password	nvarchar(MAX)	<input checked="" type="checkbox"/>
email	nvarchar(MAX)	<input checked="" type="checkbox"/>
age	nvarchar(MAX)	<input checked="" type="checkbox"/>
StudentID	nvarchar(50)	<input type="checkbox"/>
		<input type="checkbox"/>

Register table include information about user who register in the website. This table is necessary to allow the user to login the website after register in it.

Science Setting table

Table 12: ScienceSetting table

PC-2016-PC\SQLE...o.ScienceSetting		
Column Name	Data Type	Allow Nulls
▶ id	int	<input checked="" type="checkbox"/>
levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
Name	varchar(MAX)	<input checked="" type="checkbox"/>
type	varchar(50)	<input checked="" type="checkbox"/>
data	varbinary(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Science Setting Table save information about Science lessons. The admin control the table from project interface when login it and access in setting pages. In addition, the data for Science lesson has been shown in the user children website.

Search table

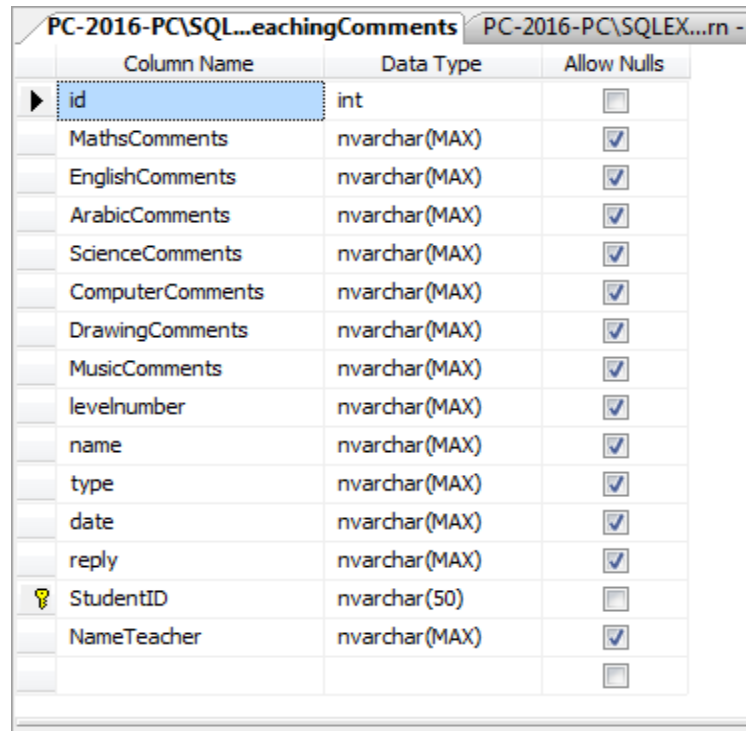
Table 13: Search table

PC-2016-PC\SQLEX...dern - dbo.search		
Column Name	Data Type	Allow Nulls
▶ title	nvarchar(50)	<input checked="" type="checkbox"/>
data	nvarchar(50)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Search table is important because it save Information to be searched by title in the children website.

Teaching Comments table

Table 14:TeachingComments table



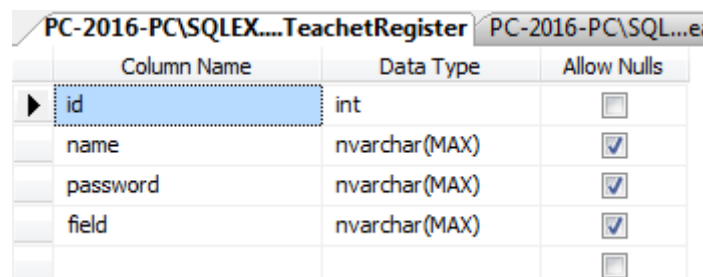
The screenshot shows a table structure window for 'TeachingComments'. The table has the following columns:

Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
MathsComments	nvarchar(MAX)	<input checked="" type="checkbox"/>
EnglishComments	nvarchar(MAX)	<input checked="" type="checkbox"/>
ArabicComments	nvarchar(MAX)	<input checked="" type="checkbox"/>
ScienceComments	nvarchar(MAX)	<input checked="" type="checkbox"/>
ComputerComments	nvarchar(MAX)	<input checked="" type="checkbox"/>
DrawingComments	nvarchar(MAX)	<input checked="" type="checkbox"/>
MusicComments	nvarchar(MAX)	<input checked="" type="checkbox"/>
levelnumber	nvarchar(MAX)	<input checked="" type="checkbox"/>
name	nvarchar(MAX)	<input checked="" type="checkbox"/>
type	nvarchar(MAX)	<input checked="" type="checkbox"/>
date	nvarchar(MAX)	<input checked="" type="checkbox"/>
reply	nvarchar(MAX)	<input checked="" type="checkbox"/>
StudentID	nvarchar(50)	<input type="checkbox"/>
NameTeacher	nvarchar(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

TeachingComments table is used to save all comment about the lessons in the children website. The admin can show and follow it from the setting pages.

Teacher Register table:

Table 15:TeachetRegister table



The screenshot shows a table structure window for 'TeachetRegister'. The table has the following columns:

Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
name	nvarchar(MAX)	<input checked="" type="checkbox"/>
password	nvarchar(MAX)	<input checked="" type="checkbox"/>
field	nvarchar(MAX)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Teacher Register table is used to save all register data for teachers who want to have account in the website.

Parents Register table:

Table 16:ParentsRegister table

Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
name	nvarchar(MAX)	<input checked="" type="checkbox"/>
password	nvarchar(MAX)	<input checked="" type="checkbox"/>
email	nvarchar(MAX)	<input checked="" type="checkbox"/>
phone	nvarchar(MAX)	<input checked="" type="checkbox"/>
StudentID	nvarchar(50)	<input type="checkbox"/>

Parents Register table is used to save all register data for parents who want to have account in the website.

Suggestions table:

Table 17:Suggestions table

Column Name	Data Type	Allow Nulls
id	int	<input type="checkbox"/>
name	nvarchar(MAX)	<input checked="" type="checkbox"/>
email	nvarchar(MAX)	<input checked="" type="checkbox"/>
message	nvarchar(MAX)	<input checked="" type="checkbox"/>

Allow the parents to add Suggestions for the website to improve it.

Contact Teacher table:

Table 18:ContactTeacher table

PC-2016-PC\SQL...o.ContactTeacher		PC-2016-PC\SQLLEX...	
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	name	nvarchar(MAX)	<input checked="" type="checkbox"/>
	email	nvarchar(MAX)	<input checked="" type="checkbox"/>
	field	nvarchar(MAX)	<input checked="" type="checkbox"/>
	message	nvarchar(MAX)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Contact Teacher table is used to allow the parents to contact with teachers by email.

3.3 Hardware and software requirements

. To build the interface for project in effective in beautiful style visual studio 2012 has been used, it is modern program using to build the project pages using ASP.NET tools.

Java script has been used to build slide show in the pages to give the beauty and fun of the site. And the database in the project has been used SQL Server 2016 , that allowing to save large data in it and connected it with internet pages using c # language .

ASP.NET

It is a collection from software tools which used in developing web internet pages that have been provided by Microsoft company, ASP.NET tools are available in Visual studio program which many Available with a number of versions such as visual studio 2005 ,2010 and visual studio 2012 .

Every version have many of web design tools that using in build internet pages. And there are other properties have been offered by the visual programming such as using java script which using in many method such as designing slide show in the internet pages (Sharp, J., & Jagger, J., 2003)

Visual studio 2012

One of the modern visual programming software used in web design. It provides a favourable environment for the implementation of many of the modern computer programs and scientific applications (Johnson and B, 2013).

In the project visual studio 2012 has been used in this project in building the web page for children website.

C#

C# is modern programming language using to apply many of events and functions in visual studio programs like as visual studio 2010 and other versions.

It is used in web application to apply many of methods, functions. it is characterized as easy to implement and use so Many programmers, and companies prefer to use C #language. It is famous and there are many of applications related it. (Sharp, J., & Jagger, J, 2003)

SQL Server 2016

One of the modern databases program used in data storage for many size from large , middle and large size , it used for different purposes. Many advantages that related to Sql server 2008 make it different from others. for example: it is easy to use and it is better than others are from the last version for SQL server.

CHAPTER 4

Implementation and Testing

4.1 Introduction

After using the internet for many years and interested for using it in all filed of life many dangers and effects on children are appeared, there are many of research and studies that interested in study and solve the problem , the solution for that formed in many shape from sites , lessons and so on .

There are many of sites, which related for learning, games and other activities but there was not found completed integrated system providing services in many filed for many levels age. So that the project in this research interested in design completed website providing interesting and learning services for many level ages from 4 to 13 years.

To apply the idea many of programming languages are used to build the website from interface and database. To build the interface for project in effective in beautiful style visual studio 2012 has been used, it is modern program using to build the project pages using ASP.NET tools.

Java script has been used to build slide show in the pages to give the beauty and fun of the site. And the database in the project has been used SQL Server 2016 , that allowing to save large data in it and connected it with internet pages using c # language .

4.2 Procedures

For the implementation of the project and get to the final image it and benefit from it, it is necessary to work software plan is excellent and powerful.

Tasks Schedule

Table 19:Tasks Schedule

Task	Task Description	Length
1	Initiating and Definition	6 weeks
2	Analysis/Software Requirements	2 weeks
3	Design interface for the website	2 weeks
4	Development	4 weeks
5	Testing	2 weeks
6	Write Project Report	1 week

SOFTWARE DEVELOPMENT PLAN

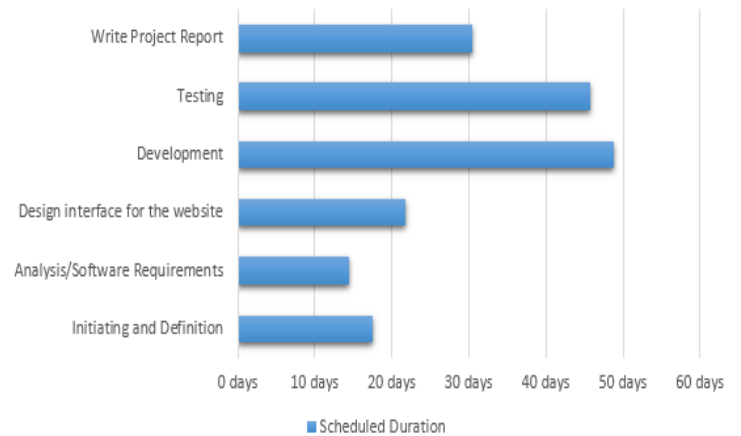


Figure 5:software project plan

4.1 Project interface

Home Page



Figure 6: home page

Home page is the main page; it contains many of interesting object such as: test your information that have many of effective questions and the user can show the answer for the question in interesting way using popup modal method.

The home show public services such as: improve your intelligence, use ful food for you, Happy stories and interesting cartoons. That is public services the visitors can show it without need register in the website. That making the website more effective and interesting and encourage children to join the site and take advantage from its services.



Figure 7:public services

The children website have many of pages such as about us, services and contact us. The details as show bellow.

About us Page:

About us page contain overview of the site, it show the main aims from the website and contain many information that defining the website.

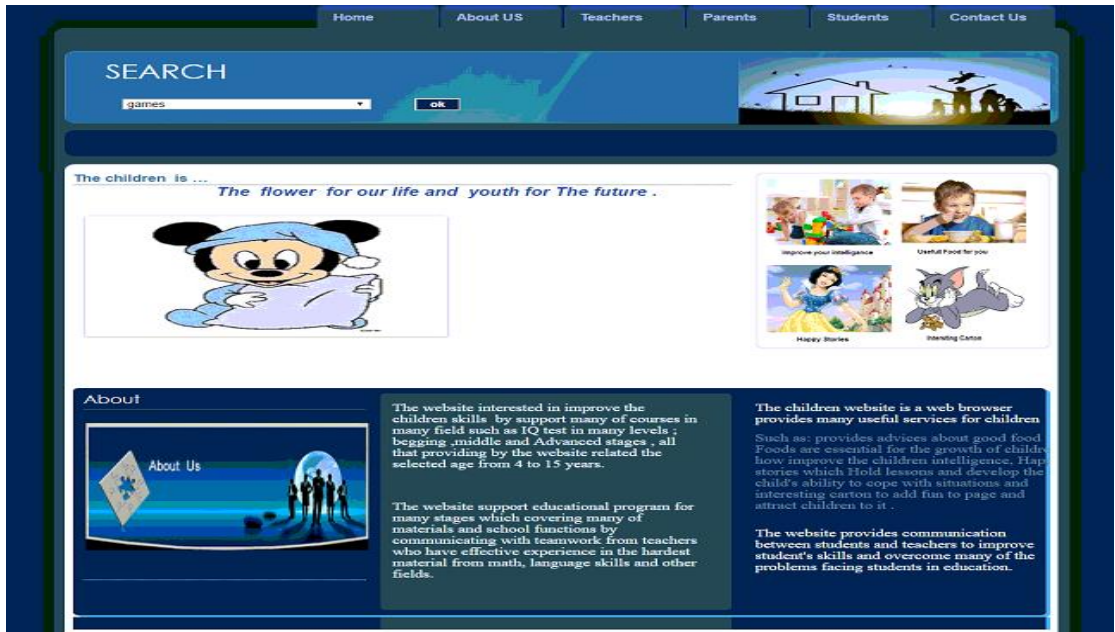


Figure 8:about us page

Teachers page:

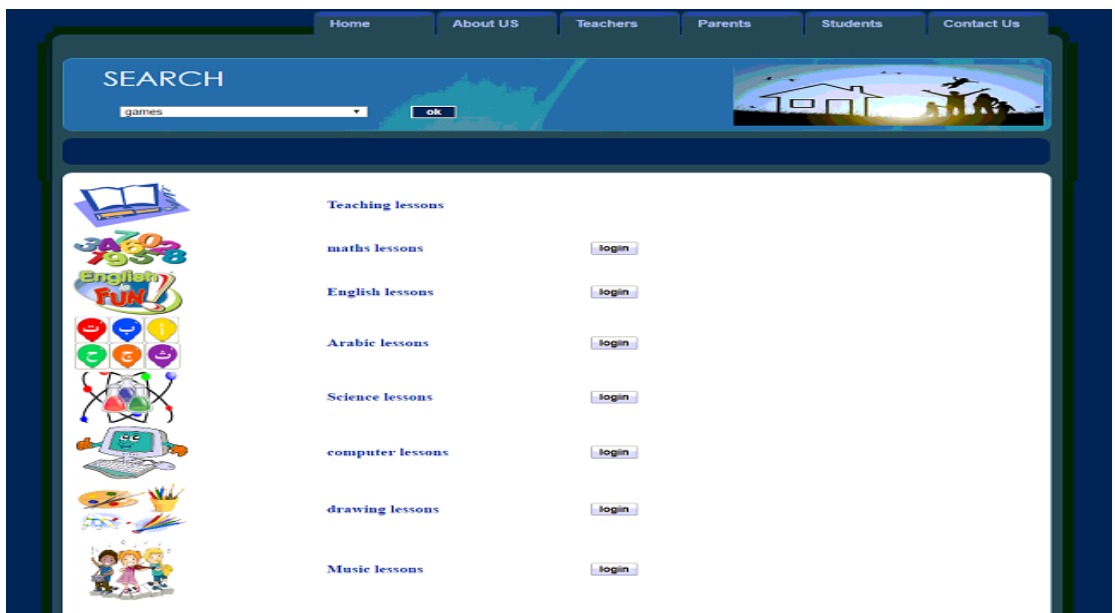




Figure 9:Teachers page

After teacher log in can access to setting lessons page:

Lessons page:

SEARCH

games



Teaching lessons

maths lessons

English lessons

Arabic lessons

Science lessons

computer lessons

drawing lessons

Music lessons


 show message

Figure 10:Lessons page

CHAPTER 5

CONCLUSION AND RECOMMENDATIONS

5.1 CONCLUSION

Spacing between title of subsection and first line of text is 1.5 lines. The first paragraph in a subsection should align with left margin. General alignment for texts in paragraph should be “justified” (Warner, 2002).

5.2 RECOMMENDATIONS

There are many of future studies that wanting to be working on the development of the site and make it more useful and effective for example:

- Make the site cover more level ages more than 13 years.
- Cover more services and tutorials for children
- Provide parental interest web pages as well as the children web site.
- Linking the children website with educational effective parts like as school to make the website more active.

REFERENCES

- [1] Farrukh, A., Sadwick, R., & Villasenor, J. (2014). Youth Internet Safety: Risks, Responses, and Research Recommendations. Center for Technology Innovation at BROOKINGS. Retrieved from https://www.brookings.edu/wp-content/uploads/2016/06/Youth-Internet-Safety_v07.pdf
- [2] Smith, G. S., & Smith, G. S. (2009). Protect your children on the Internet: A roadmap for parents and teachers. Lanham, MD: Rowman
- [3] One Hundred Tenth Congress. (2012). Protecting children on the Internet: Hearing before the Committee on Commerce, Science, and Transportation, United States Senate, first session. Washington: U.S. G.P.O.
- [4] Bowe, C. (2007). Children and the internet: A research study into the social effects of lack of internet access on socially disadvantaged children and families. CONSUMER PANEL. Retrieved from <http://www.communicationsconsumerpanel.org.uk/downloads/our-publications/research-and-reports/Children%20and%20the%20internet.pdf>
- [5] Victory, N. (2003). Children's Internet Protection Act. DEPARTMENT OF COMMERCE. Retrieved from <https://www.ntia.doc.gov/legacy/ntiahome/ntiageneral/cipa2003/CIPAreport08142003.pdf>
- [6] Ofcom Report on Internet safety measures. (2015). Ofcom. Retrieved from http://stakeholders.ofcom.org.uk/binaries/internet/third_internet_safety_report.pdf
- [7] Greenberg, P. (2009). Protecting children online. National Conference of State Legislatures. Retrieved from https://www.oecd.org/sti/ieconomy/childrenonline_with_cover.pdf

APPENDICES

APPENDIX A: Graphs

software steps

