



Centre For Curriculum &
instructional materials



Department for Computer &
Information Technology
Development

Information and Communication Technology - Second Year Secondary

The Web Site Design Project



Second Year Secondary

First Term

2015/2016



Information and Communication Technology

The Web Site Design Project

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Introduction

The continuous and rapid development in the field of information and communication technology imposes requirements for sophisticated methods of the educational process to keep up with the successive technological developments.

It is what led us to adopt new instructional entrances designed to achieve the goals, philosophy and visions contained in the document of computer and information technology that reflects the criteria and indicators for the subject for second year secondary that had been prepared in the framework of a matrix of the long relay at various stages of study.

The curriculum is designed to develop self-mail and collaborative thinking skills and different types of students through cooperation in the implementation of projects to design and create interactive Web site "Illustrated dictionary terms."

The idea of the project depends on the creation of a model program whose pages are designed by using (Expression Web), and the language of HTML coding, This project includes databases created by using MySQL program.

We deal with databases through templates that were written in PHP programming language)). They are open Source; you can copy and use them in the establishment of the site pages and understanding and the developing of any code you want to implement.

The book also includes pictures of the actual application interfaces executing the project, to clarify all the action steps, and simplify the concepts of learners, through activities and exercises comprising its operation in the dedicated book.

Finally, this book is keen to develop various thinking skills and life skills for using ICT through carrying out projects that give students opportunities to employ what they are studying in their working lives.

(God bless)

Staff



Table of contents

subjects	No.
Unit one: Basics of Web Site Design	7
The first topic : Cybernetic Entrance of the Project.	9
The second topic: Planning the project site of "Illustrated Dictionary of Computer Terms.	20
Second Unit : Requirements and production stages of the project	29
The First topic: Design Web Site Pages.	32
The Second topic: Create a Database.	40
Unit 3: Creating site pages of "Illustrated Dictionary of computer terms".	56
First topic: The PHP & HTML languages and applications of designing web sites.	57
The second topic: Transactions and conditional sentences in the language PHP.	86
The third topic: "Add_Term.php" page.	95



The objectives of the book of information and communication technology for secondary two:

- ◀ Know some of the concepts of operations related to infrastructure for computer systems, databases, programming languages of creating Web pages, and secure web sites, etc.
- ◀ Know some basic concepts and processes related to applications and services of information and communication technology.
- ◀ Understand some aspects of intellectual security (human and moral and social) and the security of information related to the use of information and communication technology.
- ◀ Use production technology tools (HTML & PHP & SQL) in the support and development of education.
- ◀ Produce the project of "Illustrated Dictionary of computer terms" using the processes and programs and technological tools.
- ◀ Employ technological tools of communication in the exchange of content, communication and interact and cooperate with others to support learning



- ◀ The use of technological tools and resources in dealing with information and data, electronic processing and evaluating and reporting the results.



Unit one

Basics of Web Site Design

By the end of the unit, it is expected that the student will be able to:

- 1- show some advanced scientific concepts and terms related to the computer.
- 2- employ computer programs in the implementation of learning tasks.
- 3- employ network of Internet services in the teaching and learning processes.
- 4- practise searches for all forms of electronic information on the computers and networks reliable in solving the problem of information.



Introduction

Previously, in the computer decision of the first grade secondary, we had a lot of knowledge and various skills through the production of "mail Atlas Arab" project. To continue what we started, you can set up more diverse projects in various areas of study and life. We will sail with you in a virtual world that is open to achieve pleasure, benefit and creativity while designing and creating a Web "Illustrated Dictionary of computer terms" site using free programming languages and open source applications which are the most prevalent in major global companies and institutions specialized in the field of information and communication technology.

The project of producing a site of "Dictionary Illustrated computer terms" serves as a model for General Dictionary terms through which you can enter all school subject terminology, and allows you to search for any term and display what it's intended for, and its image quickly and easily, in addition to the possibility to modify or delete it.



The first topic Cybernetic Entrance of the Project



Learning Outcomes:

By the end of the topic students are expected to be able to:

- 1- recognize some basic concepts and terminology associated with creating a Web site dealing with databases.
- 2- distinguishes static web and dynamic web pages.
- 3- practise preparing computer operations to become a SERVER.
- 4- recognize packs of programmes and web applications.



During the implementation of the "Illustrated Dictionary of computer terms" you should recognize some important basic concepts that we are going to use.

1- Freeware Programs

They are the programs whose owner" The owner of the intellectual property right" allows others to use them free of charge or with written permission from him.

2- Open Source Programs

They are the programs and published applications that give users access to the code, the possibility to modify, develop it in the light of the needs of its developers, and republish or use it after the amendment.

3- Static Web Page

It is an Information page that is displayed through one of the Internet browsers. It can be saved along .htm, .html page. It displays various types of data from text, numbers, images, and video tables and links ... etc.,. These data are accompanied by some effects through which we needn't conduct a treatment to page content



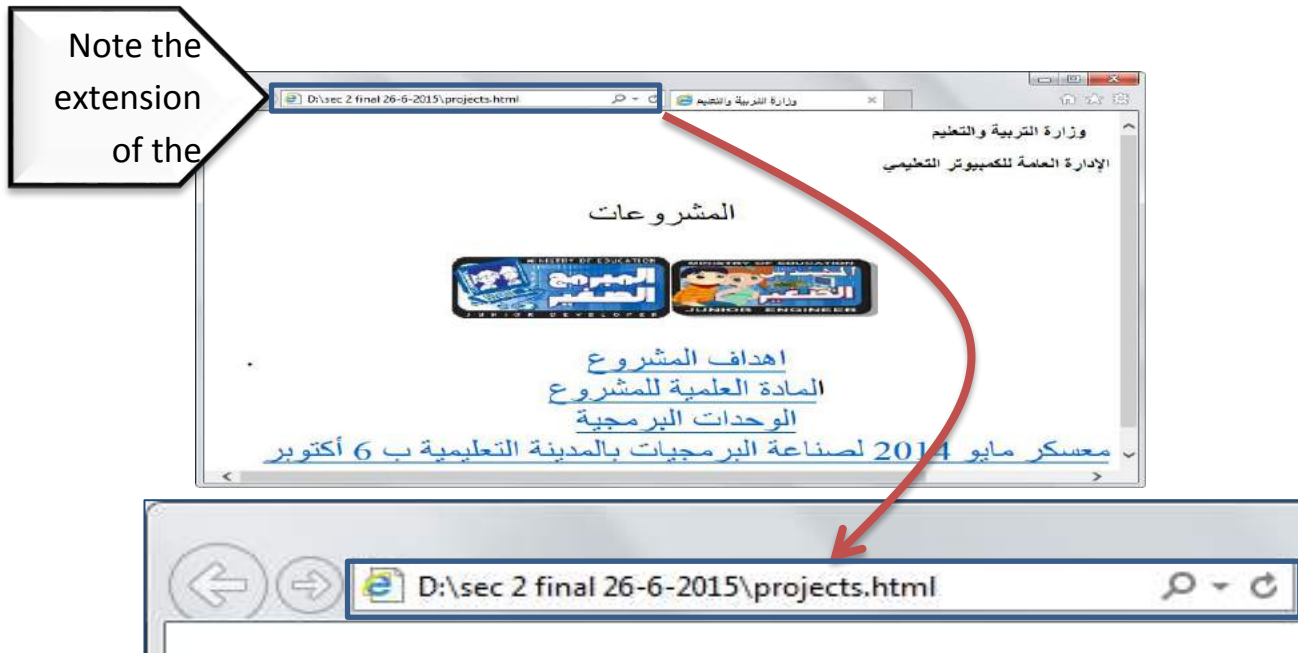


Figure (1) Static Web Page

4- Dynamic Web Page

It is an information page available on the Internet. It can be written in **PHP** or **ASP.NET**. It can display different types of data, and be made available through an address to the content of the page, such as restoring a value or displaying a message or an output.

Dynamic Web page contains the code executed on the server, for example:

- Implementation of a particular action based on the input process for example a user name and a password.
- The page contains the code to deal with a database at the server.

Sometimes you can see the page type (Static and Dynamic) of extension available in the URL.





Note
extension
ASPX page

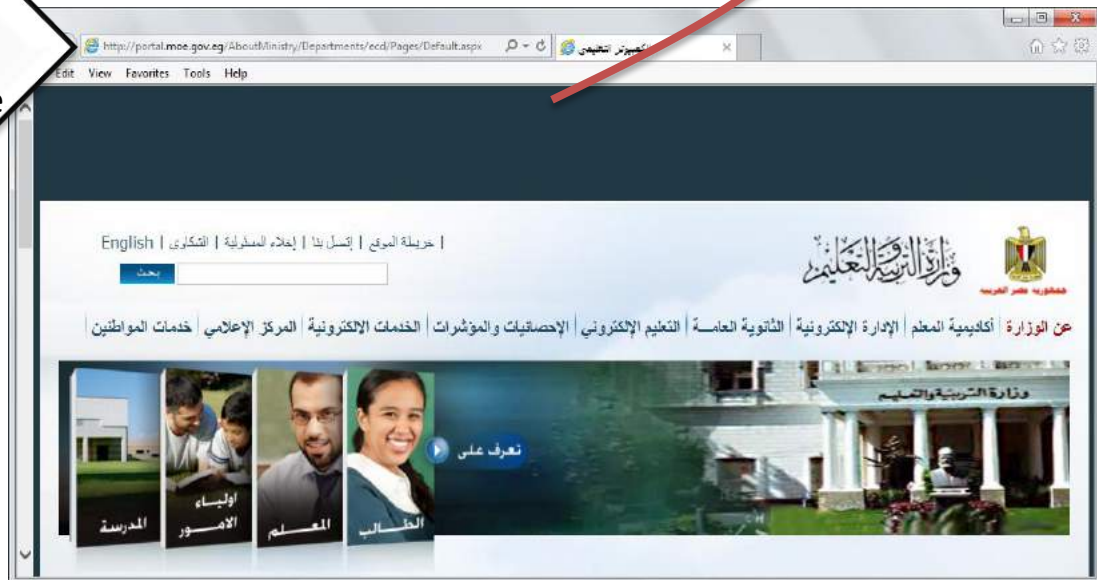


Figure (2) Dynamic web page

5- Server:

The term is intended to two different meanings:

Hardware server which is the most high powerfull computer network

Software server which is as a task or role run in the network.

The first:

It's the computer Hardware Server in a computer network. It is a device that has high technical specifications from the rest of network devices. It controls the rest of the network devices and through which the permissions of computer network users are determined by running the Server system.



The latter:

It is intended for the role of the computer in the computer network through Software, for example :

Web Server: means the device on which the computer Web site pages are stored.

Print Server: means computer printer connected to it, and controls the print management operations issued by any other device in the network.

E-mail server: is intended to store the computer device e-mail messages and controls the management of all e-mail processes and made them available for users of e-mail.

6- Script:

It is a sequence of instructions or code written in one of Web pages languages customized for web pages to perform a task or to process some of the data, including:



Unit 1: Basics of Web Site Design

Server Side Languages

For Example:

PHP

ASP.NET

This code is run inside the browser to a server's "Run at server

"Run at Server

Client Side Languages

For Example:

Java Script

VB Script

This code is run inside the browser to a client's "Run at Client

Run at Client

Note: For example

- ◀ Make sure not to leave empty-user name field. It can be implemented through:

(Run at Client) Java script Code

- ◀ The verification code that the user name and password are correct and in the database server is implemented through:

.(Run at Server) ASP and PHP Code

7- HTML"Hyper Text Markup Language":

It's the language used to create the Static Web Page. This page can be saved along .htm, and displayed through one of the Internet browsers.

8- The language of PHP "Personal Home Page"

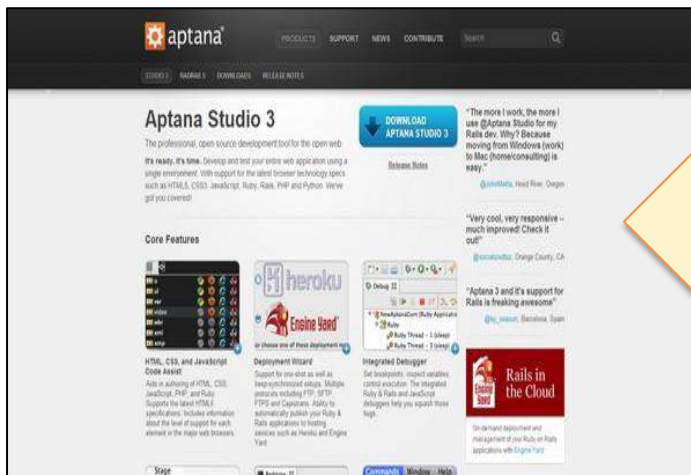
It's one of the specialized languages in developing dynamic web sites. It's a free open source language characterized by ease, speed, and operates the Server Side Language. Its own code can be included within the **HTML** code, and can easily connect different data bases safely.



Unit 1: Basics of Web Site Design

The pages that contain **PHP** extension, **PHP** code are stored. To implement the code, we need to make some modifications needed to make the PC **Server** device using **Apache Server** program.

Any programming language needs an assistant program used to type the code. Among the most famous programs creating web pages in PHP language:



Aptana Studio



Komodo Edit



Expression web



Coffee Cup Free
HTML Editor

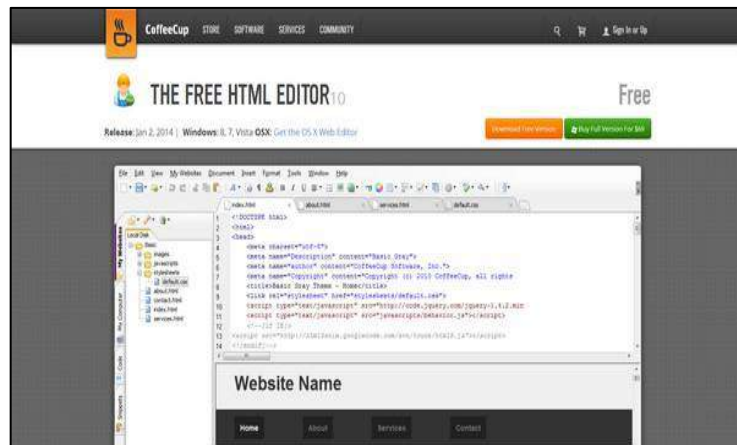


Figure (3): Some applications used to create Web pages

9- Apache Server:

The program is used with Server devices or simulates your personal computer to act as Server device so that it can translate the written code language PHP, which makes it easier for the developers of web sites to test web pages locally on Local computer before hosting it to the host server to be published on the Internet.

10- Publishing Web Site:

When you create a Web site, you need to test its pages and display them on an internet browser before it's available to visit on the internet. There are two ways to publish a site:

The first:

Localhost

Where the site is displayed on our computer or in a LAN.



The second :

Publishing Web Site

Where the web site is uploaded to the server. This server is called " web server which provides web hosting service" That allows" users to visit the site through the web site address or URL "Uniform Resource Locator", for example " the site of the Ministry of Education." "www.emoe.org.eg."

11- SQL "Structured Query Language:"

It's a programming language used in all operations of database management starting from creating the database and dealing with the data stored in tables that make up the database by writing simple sentences (orders) that allow you to carry out operations:

- ◀ Inserting new data (**INSERT**).
- ◀ Displaying previously stored data by (**SELECT**).
- ◀ Editing these data (**UPDATE**).
- ◀ Deleting these data (**DELETE**).

12- MySQL Server:

It's one of the applications of RDBMS "**Relational Data Base Management System.**"



13- "Web Server Packages":

Web applications packages mainly contain:

- ◀ Installing web server (**Apache Server**).
- ◀ Installing database management system (**MySQL**).

On the Internet, there are free Web applications packages that can be installed, for example:

1- Web applications package **LAMP** (**Linux** – **Apache** – **MySQL** – **PHP**).

It includes Web server software (**Apache Server**), the application of **MySQL** database, and **PHP** programming language compiler and run on the Linux operating system.

2- Web applications package **WAMP** (**Windows** – **Apache** – **MySQL** – **PHP**).

It includes **Apache Server** software, the application of **MySQL** database, and scripting language compiler "**PHP**" and runs on the **Windows** operating system.

3- Web applications package **MAMP** (**PHP** – **MySQL** – **Apache** – **Mac**) (**Mac**–**Apache**– **MySQL**–**PHP**)

It includes **Apache Server** software, the application of **MySQL** database, and scripting language interpreter **PHP** and runs on Mac operating system.

4- Web applications package (**XAMPP**) "**X**-os, **A**pache, **M**ySQL, **P**HP, **P**erl"

It includes a Web server (**Apache Server**), the application of **MySQL** database software, compiler and programming language **PHP** and Perl programming language that run on any operating system.



Note:

The essential difference between the previous web applications packages is the operating system you are working with.

14- Session:

It's a way to store information about the user (visitor of the website) in order to make it available for use across the pages of the site, such as: (User Name, Password, some general and personal data, etc). The user may need to register when he visits the internet site to enter both: (User Name & Password). This is done by opening "Session" in memory as a variable that receives the user name and password that was entered in the registration page. The the site developer allows this user to visit all site pages or not, according to the specific condition / conditions.

Practise (1)

**Basic Concepts" in activity
book Page (7)**



The second topic

Planning the Project Site

"Illustrated Dictionary of Computer Terms:



Learning outcomes:

By the end of the unit, it is expected that the student will be able to:

- 1- determine required tasks to create a web site.
- 2- Plan the main page of a web site.
- 3- Load **XAMPP** program to run **MySQL** and Apache applications.



Aim of project

Designing and creating site of "Illustrated Dictionary of computer terms by using free or open source programs and applications.

The importance of the project

The importance of the project lies in making you practise writing your **PHP** code of dealing with **MySQL** through web site pages.

Thus, you can consider it a model to apply to create new various sites with various uses after performing the required modifications.

Determine the tasks to be implemented in creating the site of, "Illustrated Dictionary of computer terms":

- Configuring the suitable environment for creating a site.
- Creating database for saving the data of terms dictionary that are inserted or modified through web pages.
- Designing the main page
- Adding a term in Arabic and English, term scientific definition and a picture referring to a term and saving it in database.
- Searching for a term in database.
- Deleting a term in database
- Modifying a term data in database.
- Providing the required help on how to deal with the site.



Unit 1: Basics of Web Site Design

The following screen represents a proposal of the main page of the site we are going to create:

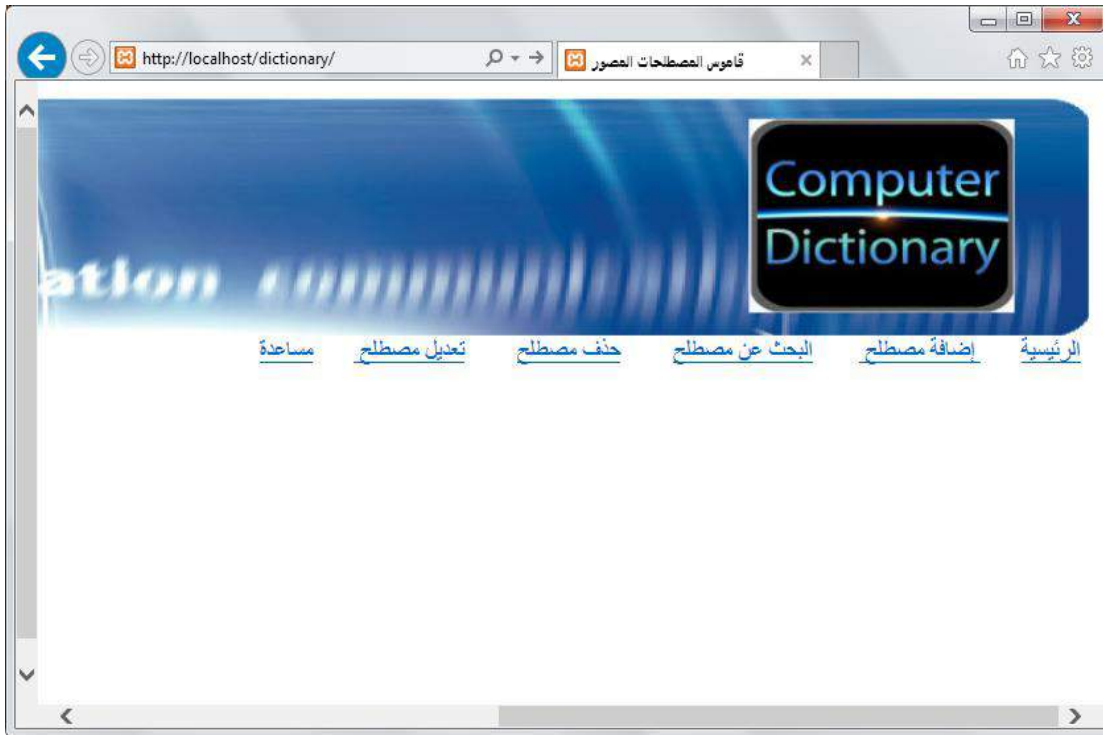


Figure (4) a proposal of the main page of "Illustrated Dictionary of computer terms"



Do you have
other
proposals?

Discuss your proposals and
how to excute them with your
teacher and classmates:

Measures to create a Web site

Firstly: Configure the suitable environment to create websites

In order to set the necessary techniques to ensure running the site, and these settings and techniques that must be taken into account are:

- (1) Selecting the programs which will be used in creating the project and **installed** on the computer .
- (2) selecting how to save **Web Pages** information project files on the computer "**Server**", and the possibility of displaying to one of the Internet browser programs, and saving these pages in the form of files on a computer "**Server**", using one of the following options:

(A)

(A) We can book a site on the "Host Server" with charge.

(B)

(B) We can book a site on one of the free hosting servers free of charge.



(C)

(C) Publish the site locally on your computer

"**Localhost**". We will select this option in the production of "Illustrated Dictionary of computer terms" project.

Important note:

All files of the site must be put in one folder containing subfolders including single-type files together. File names must be in brief and expressing their content in English.

- (3) Preparing your computer to act as a server to host your site "**Local Host**:"
When you create a Web site software, developers need to configure the appropriate environment for the establishing a website: "Illustrated Dictionary of computer terms, "This requires making your computer act as a Server, using **Apache Server** program, which translates the code written in language **PHP** language "**Personal Home Pages**."



- ◀ To test the site and validate it locally before it is published on the Internet just like what big companies do, you need to create your device to act as a server device to be ready to host the site.
- ◀ Examples of the programs used for this purpose: "XAMPP" program which is one of the best programs to set up your computer "Local Host". It is easy and you can deal with MySQL databases.



Activity (1)

Installing "XAMPP Program".

Under the supervision of teacher, follow the steps to install XAMPP program described in the

Activity book (١١)



Secondly, executing the "Illustrated Dictionary site computer terms through three stages, namely:

(1) stage of creating a database:

Store the data that is entered or displayed on the web site pages, through a database management programs such as: Access – MySQL.... etc.

(2) Stage of creating a page / static Web site

Through one of the following options:

HTML "Hyper Text Markup Language

Using "ready to-run programs" or applications, such as Application Program: **Expression Web**.

Note:

The site created by using an application or **HTML** contains **static Web pages** includeing various images of data and information.



(3) Stage of converting static Web pages into dynamic "Dynamic Web page:

Where the contents of the static Web page and the modification in the associated database by the user who is permitted to handle and modify the content, by writing code in one of the programming languages such as: **PHP** within the **HTML** code.

The site pages are displayed using one of the following Internet browsers:

Internet Explorer – Google Chrome – Firefox, etc...

Activity (2)

Run "XAMPP" Program

Under the supervision of your teacher, follow the steps outlined in the book of activities and exercises Page 15 to run **XAMPP** program in the right way





**Dear
students**

To create a project site "Illustrated Dictionary of computer terms", we should do the following:

We should:

- 1- create "Static Pages" through the application of "**Expression Web**" through which we can display "**HTML**" code .
- 2- process the contents of the static pages "to become Dynamic pages, by adding code language "**PHP**" within the "**HTML** code."
- 3- run **XAMPP** program that does the following:
 - 🖥️ Running a Apache program that makes the device acts as a server.
 - 🖥️ Running **MySQL** program that enable you to deal with

Which you are going to execute under the supervision
of your teacher through following the procedures
described in the book of activities and exercises.



Second Unit

Requirements and production stages of the project

By the end of the unit, it is expected students will be able to:

- 1- suggest simple projects to employ the applications and information and communication technology services in the fields of study and life.
- 2- employ information and communication technology applications in exchange projects' tasks.
- 3- employ some of desktop programs and applications (Worksheets – Data Bases...) in producing specific tasks within educational projects.
- 4- employ several programs to solve educational and life problems.
- 5- design suitable data base for his project.
- 6- practise PHP programming skills.
- 7- use some of Internet applications in the implementation of his project.
- 8- design interactive Web pages for his project.
- 9- link the interactive Web pages with Databases.
- 10- produce a project using advanced Internet applications.





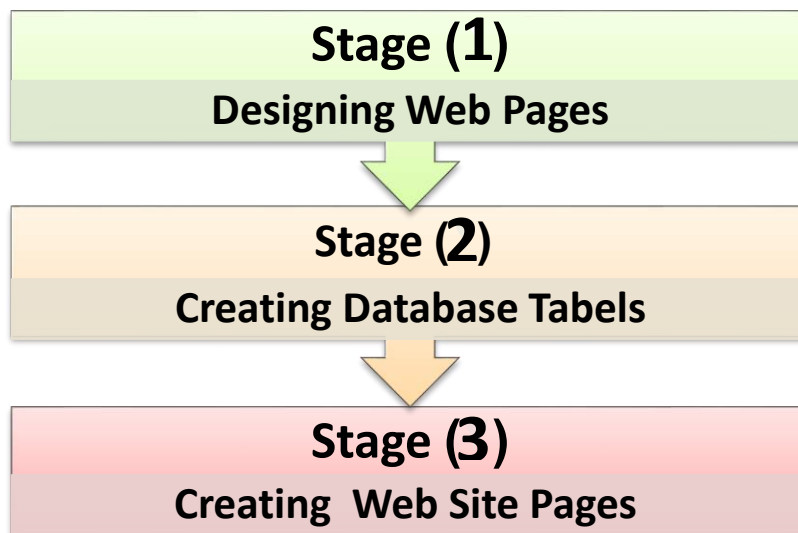
Unit 2: Requirements and production stages of the project

- 11- employ advanced databases (**MySQL**) in designing web sites to solve life problem.
- 12- Use PHP programming language in producing software and web site to express his/her thoughts.
- 13- evaluate web sites and information resources in terms of accuracy and credibility in the light of specific criteria.





Producing the “Computer Terminology Dictionary” project passesthrough a number of stages as follows:



Each Stage contains several skills and through your study and practice, you can implement the project.



The First Topic

Design Web Pages



Learning outcomes

By the end the topic, students are expected to be able to:

- 1- design the home web page for the Computer Terminology Dictionary site.
- 2- determine the necessary navigation links between pages of the site.
- 3- discuss with his colleagues several proposals for the design of the project pages.



Design web pages stage

This is the first stage of the implementation of the project, in which the project' web pages, the name of each page, the purpose, and its content will be determined. Also we will define a proposal for designing the main page components and the Hyperlinks used in web pages navigation and return back to home page.

Good design of the site before the beginning of creation, it saves time and effort, also helps in producing special and professional site.

The following figure shows a proposal for designing “Pphotographer Computer Terminology” Dictionary site' pages.

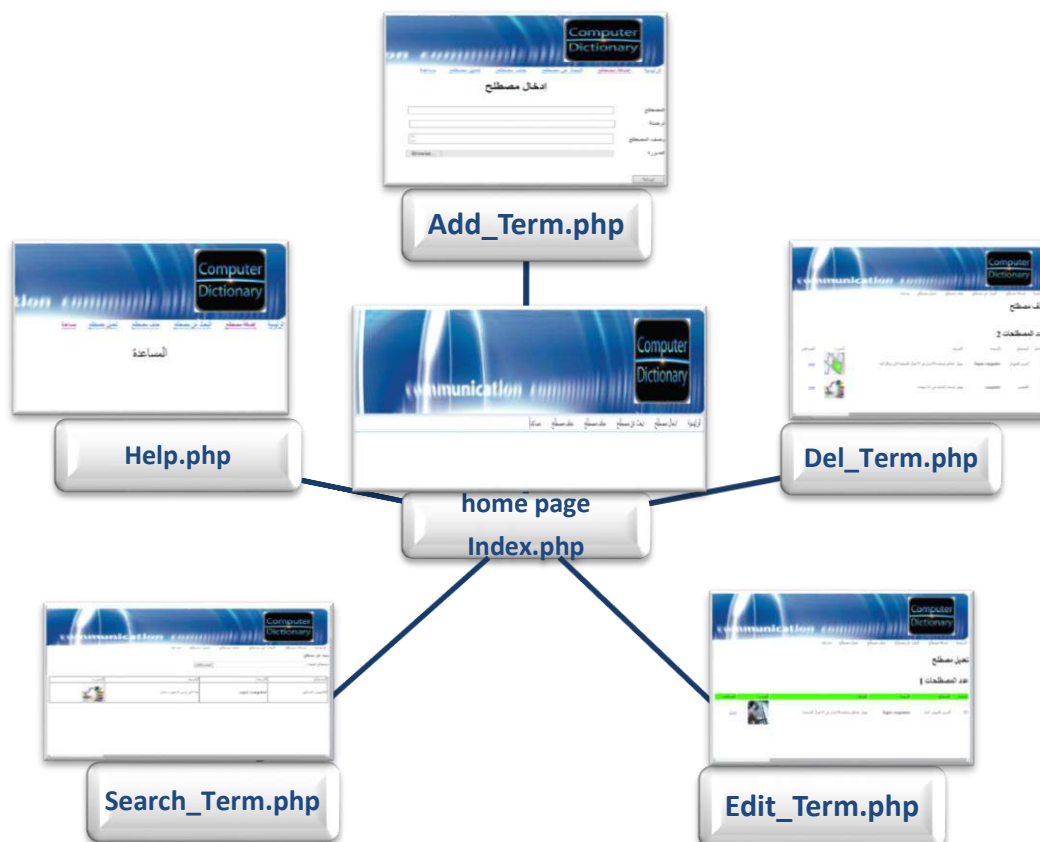



Figure (5) scheme of “Photographer Computer Terminology”

Dictionary site' pages.



The following table shows “Photographer Computer Terminology” Dictionary site pages and its purpose and description.

No	Page Name	Purpose	Description	Page Design
1	Home Page Index.php	To activate the links which can navigate between the site web pages	It represents the start page that appears when the user downloads the site, and by which they can move to the rest of the pages of the site.	
2	Data Base Connection Page Connection.php	To achieve connect to the database, where it will be retrieved before dealing with the data.	This page does not appear in front of the user, but it has been separated in order to limit typing code to one -line code achieves connect to the database at the beginning of each page rather than repeat the entire contact database code.	PHP Code To connect Database








Unit 2: Requirements and production stages of the project

No	Page Name	Purpose	Description	Page Design
4	Site Header Page Header.php	To show Banner picture and Hyperlinks Which they take us to all pages of the site where they are called at the beginning of each page.	This page contains fixed parts that need to be shown in all pages of the site, it so have been separated in a separate page, and is retrieved through one line code writing at the beginning of each page.	
5	Adding Term Page Add_Term.php	To add term and all its data in the Terminology database table.	Independent Page, in which we write code to call the page header.php and another code to call page connection.php so that it can add a new record to the database.	






Unit 2: Requirements and production stages of the project

No	Page Name	Purpose	Description	Page Design
6	Searching Term Page Search_Term.php	To search term in the terminology database table.	Independent Page, in which we write code to call the page header.php and another code to call page connection.php so that it can search for a term in the database.	
7	Editing Term Page Edit_Term.php	To edit or update term data in the terminology database table.	When you make a modification term data we choose the term you want to modify it, and then make the necessary adjustment and save.	
8	Deleting Term Page Del_Term.php	To remove or delete term data from the terminology database table.	You can delete a term that was chosen.	





Unit 2: Requirements and production stages of the project

No	Page Name	Purpose	Description	Page Design
9	Helping Page Help.php	To view information about the site and its controllers.	Usually what we find in most of the sites where the About Us page displays information about the location, the methods of communication, such as phone, address, e-mail, address pages on social networking sites ... etc.	



Note: To avoid writing code in all the site pages are as follows:

1. Separate the image Banner and Hyperlinks in a separate page that is called in the beginning of each page.
2. Separate connect code to the database in a separate page that is called at the beginning of each page.
3. Image that appears at the beginning of each page called Banner.
4. All Hyperlinks that we use to navigate between pages of the site are:

(Main – Add term – Search term –Edit – Delete – Help)

This requires repeat the code for image and links to all pages of the site which represents a significant burden and should want to avoid a repeat, by separating them on one page that is called in the rest of the pages.

There are many applications or ready-made programs in which we can create a project-specific web pages quickly and easily, that is what we will be implemented in the following stages.

After selecting the site pages, we have to determine the structural architecture of the database, Which will be explained in the second stage of the project (next topic).



Practice (1)

"Design a Scheme of site pages"

Book of activities and exercises Page 23



Practice (2)

Design a Scheme of "Photographer
Computer Terminology" Dictionary site
pages

Book of activities and exercises Page 25



The Second Topic

Create a Database



Learning outcomes

At the end the topic, students are expected to be able to:

- 1- recognize some basic concepts related to databases.
- 2- create a database of the project “Photographer Computer Terminology Dictionary”.
- 3- practice linking databases operations.
- 4- classify the relations in databases.
- 5- cooperate with his colleagues in the creation of database tables.



Create database tables Stage

The second stage in the construction phase of the “Photographer Computer Terminology Dictionary” project database, and before starting, must be identified on some of the basic concepts of databases.

1- Database:

The database is a store or save a set of structured data associated with a particular subject in order to restore it to make decisions. The Relational Database is one of the types of databases that rely on the division of the data in Tables with determining relationships between these tables.

2- Tables:

Table represents infrastructure or the main component of the database, and consists of Records and Fields such as: data table for student or an employee or product ... etc.

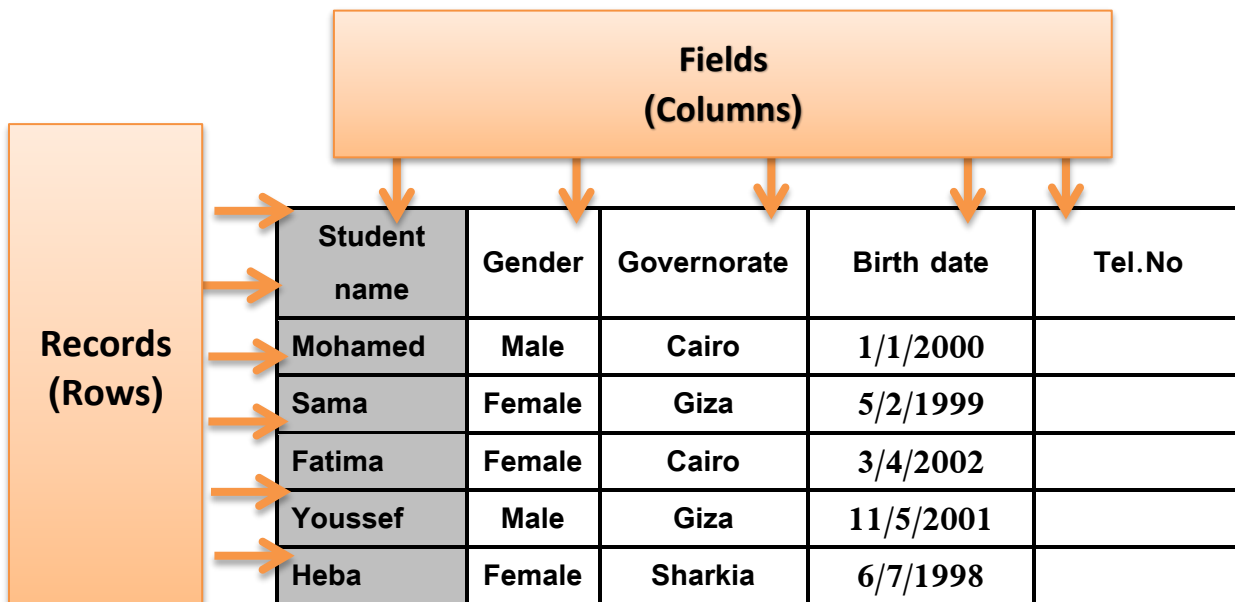


Figure (6) Example for Student table



From the previous table, we conclude the following concepts:

Records:

A row of data table containing all the data for only one person or one case, and the record consists of several data fields (student or an employee or a particular product).

Fields:

Field is the infrastructure that makes up the data table, any column in a table is a field, and the field contains only one statement for each record of the table records.

Each field has many of properties including:

- ◀ **Field Name:** Such as Student's name, Governorate, Salary, Quantity... etc.
- ◀ **Field Data Type:** may be :
 - ◀ **String:** Such as Name or Address.
 - ◀ **Numeric:** Such as Degree or Salary.
 - ◀ **Date:** Such as Date of birth ...and so on.
- ◀ **Field Size:**

It is the number of digits or characters in the case of the text field, or select the type of numbers entered in the case of the numeric field (Integer – contains a Decimal – etc.).

It is worth mentioning that:

- ◀ You can create database that consists of only one table containing all the necessary fields and in this case the table is called "Flat Table".



- ◀ We usually separate the fields that share a common factor and put them in a single table, and thus database contains more than one table.
- ◀ This matter requires creating relations between the database tables to each other, so as to avoid duplication of data or fields, and in this case the database is called Relational Database.

To ensure the success of the linking process between database tables, you must achieve the following:

(1) Set a "Primary Key"

Set a "Primary Key" field for each table, and that by one of two ways:

- Select a field from the table fields: the requirement will not be repeated any statement in this field at all, even with the huge volume of data.

Or

- Add a new field: it is set or allocated as a Primary key field.

Practice (3)

“The basic concepts of databases”

Activity book Page 26



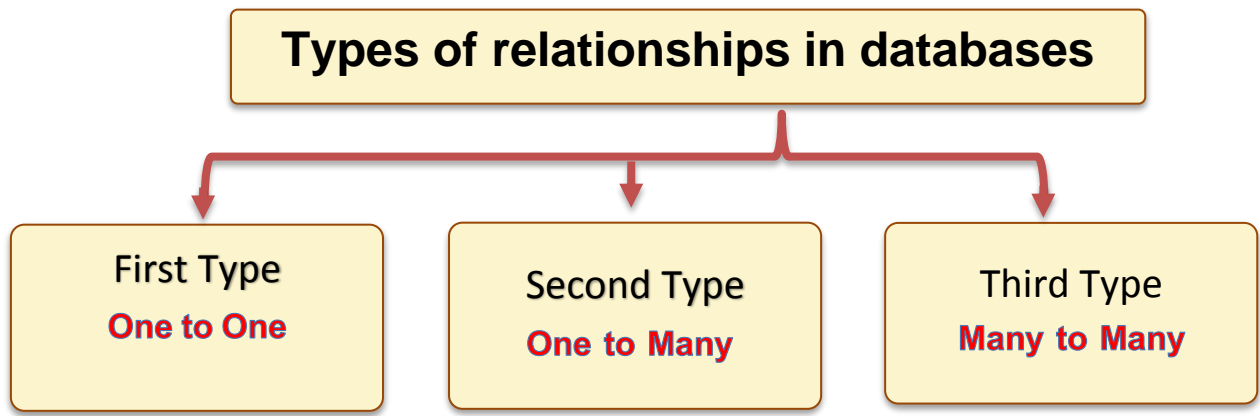
Study the following table and discuss with your classmates and your teacher what considered.

Student name	Gender	Governorate	Birth date	Tel. No
Mohamed	Male	Cairo	1/1/2000	٢٤٦٨
Sama	Female	Giza	5/2/1999	٨٧٨٨٧
Fatima	Female	Cairo	3/4/2002	٣٢٣٢٣
Youssef	Male	Giza	11/5/2001	٥٤٥٤٥
Heba	Female	sharkia	6/7/1998	٦٥٦٥٦

And it is clear that the fields that can be repeated its data, are not applicable to be a primary key field, so you must add a new field to become the primary key for the table, such as the student serial number or the student ID, so devoted a special number to each student that characteristic his data for the rest of the table records.

(2) Determine the types of relationships in databases

Determine the types of relationships in databases, the concept of each type, and how you can link the two tables, which will be addressed in some detail.



First Type: One to One:

A Relationship between two tables, where you can join a record in the first table with only one record of the second table, and vice versa.

Example (١)

Student data table

St. no	Name	Date of birth	Nationality	Address	Tel. no
١	Hany	1/1/2000	Egyptian	Cairo	١١٢١٢
٢	Aml	2/2/2001	Egyptian	Giza	٥٤٦٦٣
٣	Walid	3/3/2002	Egyptian	Quina	٩٩٨٧٧
٤	Samar	4/4/2003	Egyptian	Aswan	٥٥٨٨٩

Student status table

St. ID	Grade/Class	Year	Status
٣	2/1	٢٠١٦	Pass
٤	2/3	٢٠١٦	Pass
١	2/5	٢٠١٦	Pass
٢	2/6	٢٠١٦	Remain

PK

PK

Figure (7) shows the head to head relationship between two tables

Of the figure (7) Note:

The joining between the two tables by one-to-one relationship is linking the primary key field in the first table "Student number" with the primary key field in the second table "Student ID", pay attention that the primary key fields in the two tables must be:

- (1) The same Data Type.
- (2) The same size.



Note:

- Do not require to be the primary key fields in the two tables have the same name.
- The application of the database does linking the record of student Number (1) in the first table with the record of student ID (1) in the second table, and so on for the rest of the records even if the introduction of the records in the two tables in a different order, the important thing is the linking fields have identical content.

For example, it can be concluded that student no (2) in the classroom 2/6 and her school status is "Remain".



Practice (4)

"One To One" relation between two tables

Book of activities and exercises Page 28



Example (2)

Classes Table

Leader Teacher Code	Class Address	Class Code

Teachers Table

Tel. Number	Address	Teacher Name	Teacher Code

Foreign Key **FK**
No duplicate

Primary Key **PK**

Primary Key **PK**

Join Field

Figure (8) shows the head to head relationship between two tables. Of the figure (8), we note that it identifies only one leader teacher for a class, which links the teacher code field (PK) in the table of "teachers" with the foreign field leader teacher code (FK) in "classes" table to be adjusted leading to field properties a non-repeatable "Index No Duplicate".

Note:

Called leader teacher code field (FK) a "Foreign Key", because it is not of the nature of the table and it is considered an outsider field.

Practice (5)

"One To One" relation between two tables

Book of activities and exercises Page 29



Second Type: One to Many

A Relationship between two tables so that you can join a record in the first table with numerous records in the second table and not vice versa.

Example:

Many Table

Students Table

Class No.	Division	School Year	Student Number
١٠١	Scientific	٢٠١٦	٣
٣٠١	Scientific	٢٠١٦	٤
١٠١	Literary	٢٠١٦	١
٢٠١	Scientific	٢٠١٦	٢
٢٠١	Literary	٢٠١٦	٥
٣٠١	Scientific	٢٠١٦	٧
٣٠١	Literary	٢٠١٦	٩
١٠١	Literary	٢٠١٦	١٠
١٠١	Literary	٢٠١٦	١٢

Foreign Key **FK**

Primary Key **PK**

One Table

Classes Table

Class Location	Class Name	Class No.
First Floor	First	١٠١
Second Floor	Second	٢٠١
Third Floor	Third	٣٠١

Primary Key **PK**

Figure (9) illustrates one to many relationships between “classes table” and “students table”

Consider the previous figure and discuss with your colleagues the following:

(Clarification with examples of records from tables)



1. Are there more of students belong to the same class?
2. Do one of the students belong to more than one class?
3. What are the student's numbers in class 301?

Note of figure (9) as follows:

- 📌 The relationship between the tables "Class" and "students" is one "to many relationship" in terms of class table, where we find that every record in the "Classes Table" is **Linked** with many of the records in the "Students table" that is, per class, there are many students while the student Linked to only one class.
- 📌 To do link between the two tables in the one –many relationship should be added the primary key field in the table **One** ("classes table") to table Many ("students table"), it is called in this case "a foreign field" (**Foreign Key**) because it is not of the nature of the table, but it outsider field.
- 📌 In the foreign key field (the class number in students table), data can be repeated, and called **Controlled redundancy**.
- 📌 That each record in the "Classes Table" is associated with numerous records in the "students table".
- 📌 The application of the database linking every record in the head table **One** "classes" with students records that have the same class number in the foreign field in the table **Many** "students".

Practice (6)

Conclusion one -many relationship between two tables

Book of activities and exercises Page 30



dreamstime.com

Third Type: Many to Many

A Relationship between two tables where one or more rows in a table are associated with one or more rows in another table.

Teachers Table

Subject	Teacher Name	Teacher No.
Computer	Ahmed	٣
English	Mona	٤
Arabic	Aml	١
Math	Omar	٢
Art	Hanaa	٥
Sport	Sherin	٦

Primary Key **PK**

Class Table

Class Location	Class Name	Class No.
First Floor	First	١٠١
Second Floor	Second	٢٠١
Third Floor	Third	٣٠١

Primary Key **PK**

Joining Table

Teacher No.	Class No.
١	١٠١
٢	٢٠١
٤	٢٠١
٥	٢٠١
٥	٣٠١
٦	٣٠١
٣	١٠١

Fields of class No. and teacher No. together a **Composite key** In the joining table

Figure (10) shows the many – many relationship between the "class table" and the "teachers table"




Consider the previous figure and discuss with colleagues the following: (with illustrative examples of records from tables)



1. Do more than one teacher teach in the same class?
2. Does a teacher teach in more than one class?
3. Select the teachers who are teaching in class No. 301?
4. What classes that taught by the teacher's No. 5?

Note of figure (10) as follows:

 The relationship between the "Class table" and "Teachers table" is many – to–many relationship, where we find that every record in the "Class table" can be associated with many of the records in the "Teachers table", and any record in the "Teachers table " can be associated with numerous records in "Class table", meaning that one class can be taught by more than a teacher, and the teacher can also be the one who teaches in more than one class.

Subject	Teacher Name	Teacher No.
Computer	Ahmed	٣
English	Mona	٤
Arabic	Aml	١
Math	Omar	٢
Art	Hanaa	٥
Sport	Sherin	٦

Class Location	Class Name	Class No.
First Floor	First	١٠١
Second Floor	Second	٢٠١
Third Floor	Third	٣٠١





Unit 2: Requirements and production stages of the project

Before doing the link between the two tables in a relationship many – to–many should create a new table that contains the primary key field "Class number" of the "Class table", and the primary key field "Teacher number" of the "Teachers table", and assign that two fields together is the composite primary key in the linking table.

Teacher No.	Class No.
١	١٠١
٢	٢٠١
٤	٢٠١
٥	٢٠١
٥	٣٠١
٦	٣٠١
٣	١٠١

Many–To–many relationship is a theoretical relationship of concepts of databases, and cannot be represented practically in database management programs such as Access – Oracle – MySQL ... etc.

So the relation was broken into two relationships:

The first: one-to-many relationship between "Class table" and "linkage table" so that the head is a "Class table", and the parties (many) in terms of connectivity "linkage table".

The last: one-to-many relationship between "Teachers table" and "linkage table" so that the head is a "Teachers table", and the parties (many) in terms of connectivity "linkage table".



From the above it is clear that:

- Data cannot be duplicated in the primary key field in the "Class table".
- Data cannot be duplicated in the primary key field in the "Teachers table".
- You cannot repeat the teacher No. and class No. together in the linkage table because they together represent a composite primary key as shown on the figure.
- Each class in the "Class table" can be taught by many of the teachers, and each teacher can also teach in more than one class.

Practice (7)

Conclusion Many-to- Many relationship
between two tables
Activity book Page 32



Using one of Database management system **applications**
in creation of the database, such as:


Oracle or MS Access or MySQL

We will use the application **MySQL** where it is free application (**Free Ware**), an **Open Source**; it is allowed to deal with the huge amount of data used by major international companies, especially in the field of information technology such as: **Google, Yahoo and Friendster**. And for more information about some of the companies that use **MySQL** you can visit the following location:



<http://www.mysql.com/customers/>

Typically the applications used in database management system include basic Objects such as:

 **Tables:** through which we can create database tables containing records and fields, and the possibility of entering, displaying and modifying the data.

 **Queries:**

Query is a request for information from a database for the purpose of data or information in the tables, displays the required data, and through query can display some fields from a table or display some records from a table or more based on a certain condition ... etc.

To create a “Photographer Computer Terminology” project database by using application MySQL, follow the procedures following activity:



Activity (1) Create a database using MySQL Activity book Page 33

This activity is a mentor that enables you under the supervision of your teacher creating of any other tables in the database depending on your needs by the following characteristics:



Project database properties:

Database Name: **dbdictionary**

Data Table Name: **Terms**

And includes a total number of five (5) fields, as shown in the following table:

Table: Terms				
#	Name	Type	Length values	Index
1	Id	Integer	11	Primary
2	Term	VarChar	50	
3	Trans	VarChar	500	
4	DeFe	VarChar	5000	
5	Picture	VarChar	300	

Note:

In the “Photographer Computer Terminology” project construction, it has been created database consists of one table to be simple.

Activity (2)

Data entry in table “terms” using MySQL

Activity book Page 39



Unit 3

Creating Site Pages

"Illustrated Dictionary of the Computer Terms".

By the end of the unit students will be able to:

1. employ some of the e-learning tools in the production of his project.
2. employ information and communication technology applications in the construction of educational content.
3. employ one of the applications of creating website in linking Web site pages.
4. employ appropriate applications in processing multimedia elements (audio – video–image...)
5. identify HTML language and PHP and its applications in web design.
6. practise dealing with electronic information skills (identifying – evaluating – selecting – organizing.)
7. employ electronic information sources associated with a specific project in the implementation of the project.
8. learn some of the transactions related to PHP language.
9. learn some of the concepts and formulas related to the IF and Switch statement.



First topic

PHP&HTML language and the applications of designing web sites



Learning Outcomes:

By the end of the topic students will be able to:

- 1- practise steps of creating a site using the application Expression Web.
- 2- know HTML markup language.
- 3- create Web pages with HTML code.
- 4- explain the main screen components of the program Expression Web.
- 5- link between Web pages with code.
- 6- identify the PHP programming language.
- 7- employ Expression Web program in linking Web site pages.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



The Procedures of setting up the project files & folders:

1- Create a folder for the project named "Dictionary" inside the folder htdocs.

Before you begin creating web pages, we need to organize files of various types that will be displayed on the pages of the site, which should be in one folder, which contains subfolders for the classification of files that are displayed on the pages of the site, and they are categorized into a folder of image files and folder for video files ... etc., and thereby create a repository Information project.

Note:

When you Install XAMPP, by default, this is done within a folder named XAMPP on the drive C: and has a set of folders, including a folder named htdocs, and a folder for the project must be created named "Dictionary" inside htdocs folder then the path becomes as follows:

C:\xampp\htdocs\dictionary

It is the path that you will use to save the project files, and save subfolders of the site and publish them as a site on the (Server) Localhost.

2- **Create web pages:**

Dear Student, remember that we were in the stage of setting the suggested design of the project. As we previously identified the pages we will create in the suggested site (location) the site pages.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



● **Add term page:**

"Add_term.php"

Which is used to add a new term.



● **Search term Page:**

"Search_term.php"

used in the search for a term and view its data.



● **Edit term page:**

"Edit_term.php"

Through which we can modify any data of a particular term.



● **Delete term page:**

"Del_term.php"

Through which we can delete a particular term.



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"



• Help page:

"Help.php"

Information on how to deal with the site "Illustrated Dictionary of Computer Terms."

- **Connection.php page** "to open a connection to the database on the server machine."
- **Header.php page** contains the following:
 1. Banner that is displayed on the top of all the pages of the site.
 2. Hyperlinks to all pages of the site.

• Home page "'Index.php" displays site interface:



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Due to the importance of the processes of the modification in the term data or delete it from the site, this authority has been granted to the user who is logged entry only, this will be implemented in the phase of securing the site in the fifth unit of this book, and so the user who logged in should be logged out from the site, after the end of his/her interaction with the site "Illustrated Dictionary of the Computer Terms".

Whatever the application used to create web pages is, it depends on the use of **HTML coding** language, so we address the most important information and basic skills in **HTML coding** language and application **Expression Web**, to help create the site pages.

"Hyper Text Markup Language" HTML



It's a **coding** language used to create Web pages that saved with the extension of the .htm or .html so that it can be displayed. Its code can be translated through one of the Web browser programs.

Thus, you can write **HTML** code using a word processing programs, such as:

(MSWord, WordPad, Notepad)

We should do the following:

- 📁 The command written in **HTML** coding language is called Tag, it is possible to be written in capital or small letters.
- 📁 To write the code according to a specific figure as follows:





The structure of a program in HTML language

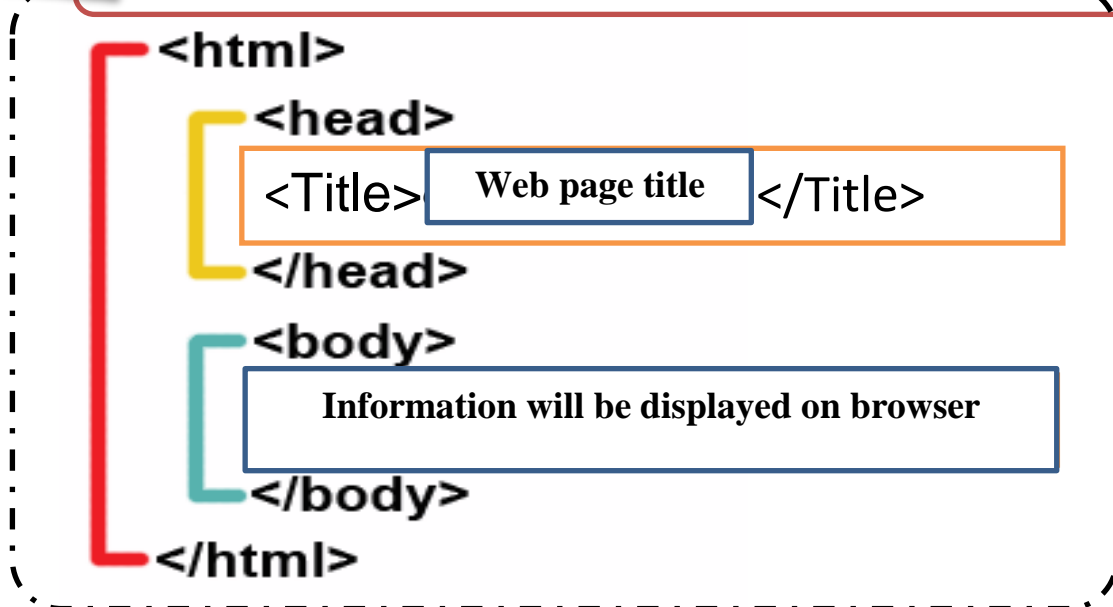


Figure (11) illustrates the Structure of HTML markup language

Study the previous figure and try to deduce the characteristics of HTML markup language:

 The characteristics of HTML markup language:

1. Tags commands in the markup language HTML are placed between two symbols < >
2. Most of the Tags have a beginning or open <... ..> And an end or close <.. ... />

As follows:

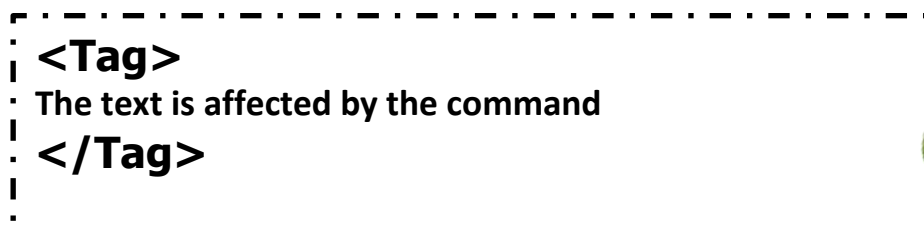


Figure (12) the general syntax of the Tag in HTML markup language



Note the following:

- Each tag has a certain task to perform.
- Some tags don't have a close or an end such as
.
- Some Tags don't have properties that can be assigned at the beginning of the Tag.

3. The code begins with <Html> and ends with </ Html> the following : is between them:

<Head></Head>	It is used to display information such as: a description of the site and the code writer and language ... etc.
<Title></Title>	It has a regard for writing the title of the web page and appears in the Title Bar of Internet browser is part of the Tag <Head>.
<Body></Body>	We Keep all types of information to be displayed on the Internet browser page of text and effects on which the photos, videos, audios, tables and links (... etc.) occur.

4. Summary of what the main sections display of the HTML code:

The beginning of the Tag		The end of the Tag
<HTML>	All page contents	</ HTML>
<HEAD>	Page heading	</ HEAD>
<TITLE>	Page title	</ TITLE>
<BODY>	Page content	</ BODY>

Figure (13) Summary of the main sections of HTML



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"



● Save markup language HTML code:

📁 To save the **HTML** code in a file you should bear in mind the following:

1. Save the file in any **HTML** code name with the extension **.htm** or **.html**.
2. A text file type **TEXT**, and you should use **Notepad** program because it saves the file in this type directly without selecting it.

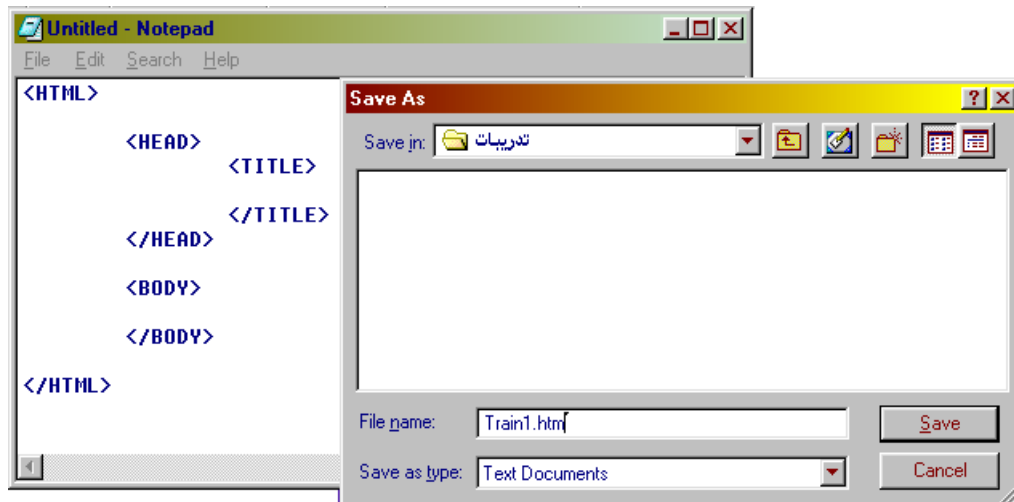
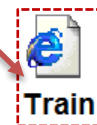


Figure (14) saving the structure of the HTML program that's written in the Notepad.

📁 After saving the file with the previous specifications, it takes the icon of the Internet browser available on your computer, such as:

Internet Explorer or **Google Chrome** or **Mozilla, Firefox, Etc...**

📁 A file **icon** in the case of **Internet Explorer**.

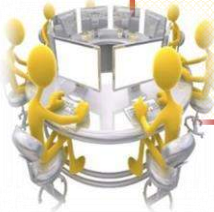


📁 Discuss the shape of the file icon with your teacher and classmates in case there is more than an Internet browser on your computer.



Activity (1)

Creating a Web Page named "Test1.html" using HTML code
Under the supervision of your teacher follow the
procedures in the workbook page (34)



Study the code of the activity

HTML Code in file test1.html

```
Test1.htm - Notepad
File Edit Format View Help
<HTML>
  <Head>
    <Title>
      My First Web Page
    </Title>
  </Head>
  <Body>
    الكمبيوتر التعليمي
    <p align = "center">
      <img src = "Egypt.jpg">
      <H1> تحيا مصر </h1>
    </p>
    <p align = "right"> الصفحة الثانية </p>
  </Body>
</HTML>
```

The following table contains an explanation of some of the HTML code used in the activity; discuss the parts of the code contained in the following table with your teacher and classmates:



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Code	Explanation
<pre><Title> My First Web Page </Title></pre>	Adding webpage address.
<pre><Body></pre>	Each text typed in the <Body> appears on the Web page, on the left as the default orientation for typing on the browser screen.
<pre><p align = "Center"></pre>	CODE <P> A new paragraph, and align = "Center" feature means the alignment of the following text has been centered on the browser screen to close the Tag </ P>.
<pre></pre>	Img src means "Image Source" It's typed after the sign "=". It's the Path and name of the image file with the extension placed between double quotation marks.
<pre><H1> Long live Egypt </ H1></pre>	H = "Head". It means that the text, followed by the title and shows the size of the line according to the number that follows the letter H from 1 to 6, where 1 refers to the largest font size and line 6 refers to the smallest font size and so on. The phrase "Long live Egypt" is also in the middle of the line where <P> has not yet closed.
<pre><p align = "right"> الصفحة الثانية </p></pre>	Typing a text on the web page—with right alignment.



Activity (2)

Using HTML code to create web page with the name test2.html

Under the supervision of your teacher, follow the instructions given in your activity book

Page (37)



Study the code of the activity:

HTML Code in the file test2.html

```
<HTML>
  <Head>
    <Title> My Second web Page
  </Title>
  </Head>

  <Body>
    أدخلوا مصر إن شاء الله آمين
    <p align = "Right">
      <img src = "Egypt.jpg"
      height=50 width=100>
    </p>
    الصفحة الأولى
  </Body>
</HTML>
```

Study the previous code, comparing it with the code in the previous activity, and then discuss it with your teacher and classmates.



Dear Student, You can create a Web page or modify it by using multiple applications or software quickly and easily instead of typing HTML codes.

Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Here are two ways to link between the two web pages test1.html and test2.html:

Firstly, the link between web pages in HTML markup language code.

Dear student, after creating the two Web pages test1.html and test2.html using HTML markup language, you need to edit the two Web pages and connect them through a text or an image, which you can do by modifying the code in the HTML markup language.

Activity (3)

Linking Web pages with code of markup HTML language

Under the supervision of your teacher follow the instructions in workbook page (39)



Secondly: the link through one of the applications of creating Web sites

Dear student, you can also edit the Web pages and connect them through text or image using the application of Expression Web.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Expression Web can be loaded to create Web sites and pages through a user-friendly interface and simple application instead of typing HTML code as follows:

loading Expression Web program:-

- From the start menu, select the program Microsoft Expression Web 4 as shown in the following figure:

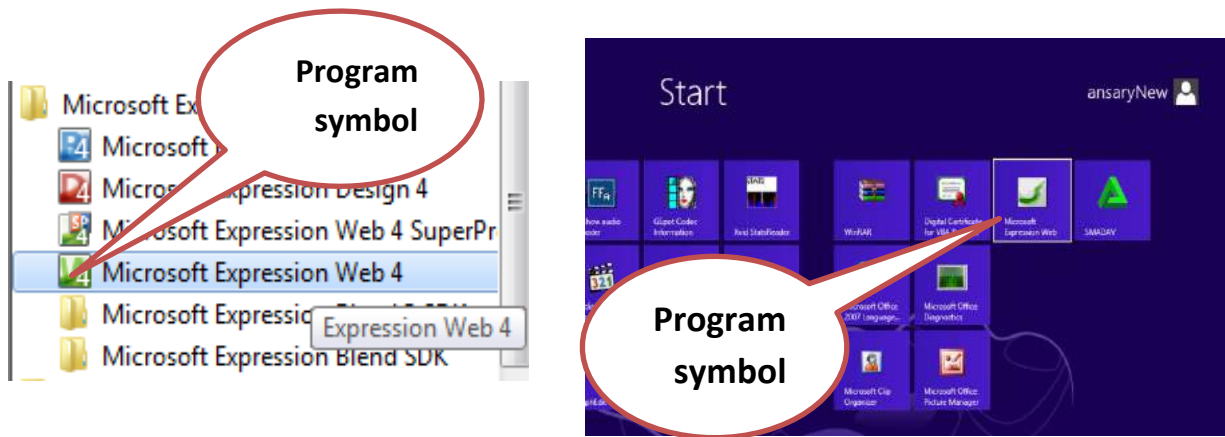


Figure (15) loading the Expression Web application

- The opening screen of the program is displayed ,its most important components are:

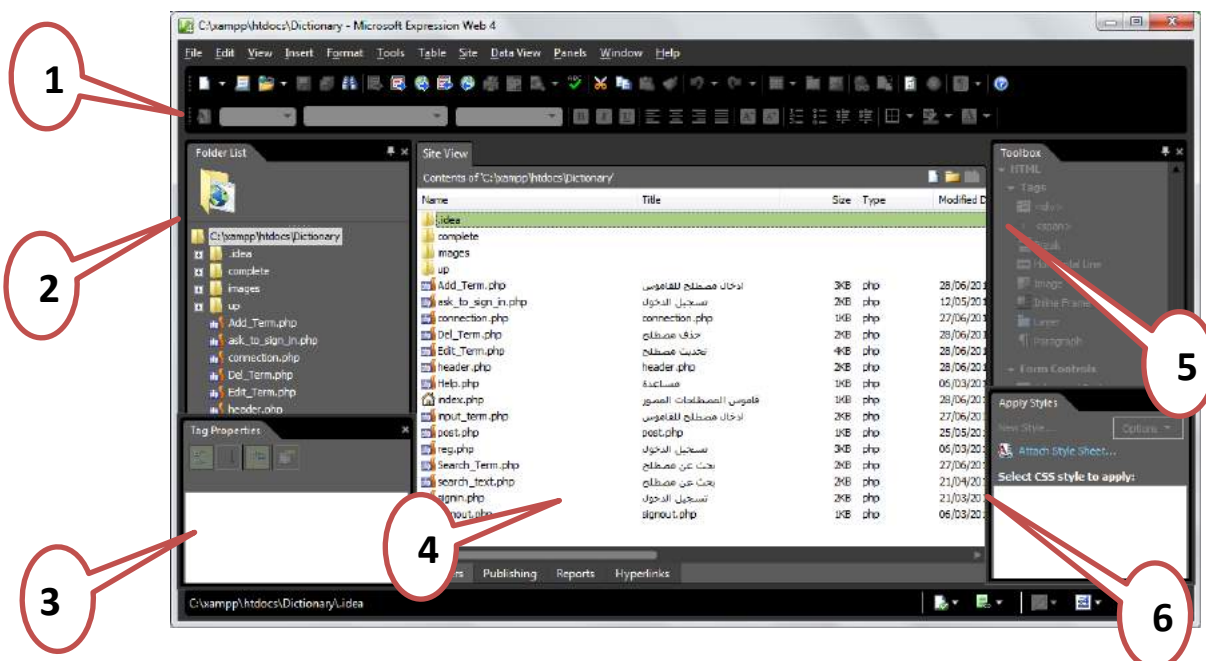


Figure (16) the main components of the screen of Expression Web program.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- (1) **Menu Bar**.
- (2) **Folder List** window.
- (3) **Tag Properties** window.
- (4) **Website component** window.
- (5) **Toolbox** window.
- (6) **Apply Style** window.

- The applications used to create Web sites and pages are characterized by **(WYSIWYG)** (" which Means: "**What You See Is What You Get.**")
- We can display the code of the Web page **HTML** and modify it, for example, we can use the application to link Web pages through the toolbar by applying Hyperlink in a text or an image as a substitute to **HTML** code, which has already been explained:

```
<a href ="The title we need to move to ">  
    Text or image to be linked to the title  
</a>
```

- This is clear through the following activity:

Activity (4)

Linking Web pages using Expression Web program

Follow the instructions given in the activity book

Page (42)



Creating the project

Before creating any page of a site, we must create a site for the project using Expression Web program, and then creating all the pages in it as planned.

Activity (5)



"Create a project site using The application
Expression Web"

Follow the procedures in activity book page (47)

Creating "Header.php"



Figure (17) "Header.php" web page

Study the previous figure, and select the repeated parts in all pages of the site:

This page contains all the repeated parts of the site pages as shown in the previous image it is:



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"

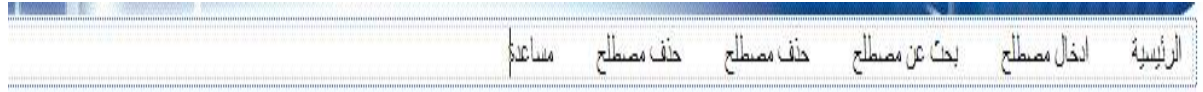


The image at the beginning of each page is called the Banner.



The following texts:

الرئيسية - إدخال مصطلح - بحث عن مصطلح - تعديل - حذف مصطلح - مساعدة.



Note:

The previous texts are displayed on the screen browser only as words that aren't linked to the web pages; they aren't hyperlinks yet.

"Header.php" page shortly aims to insert an image and then type some texts that are separated by spaces, as displayed by the following code window:



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"



```
<div>  
<img height='161' src='images/banner.jpg' width='1267'>  
</div>
```

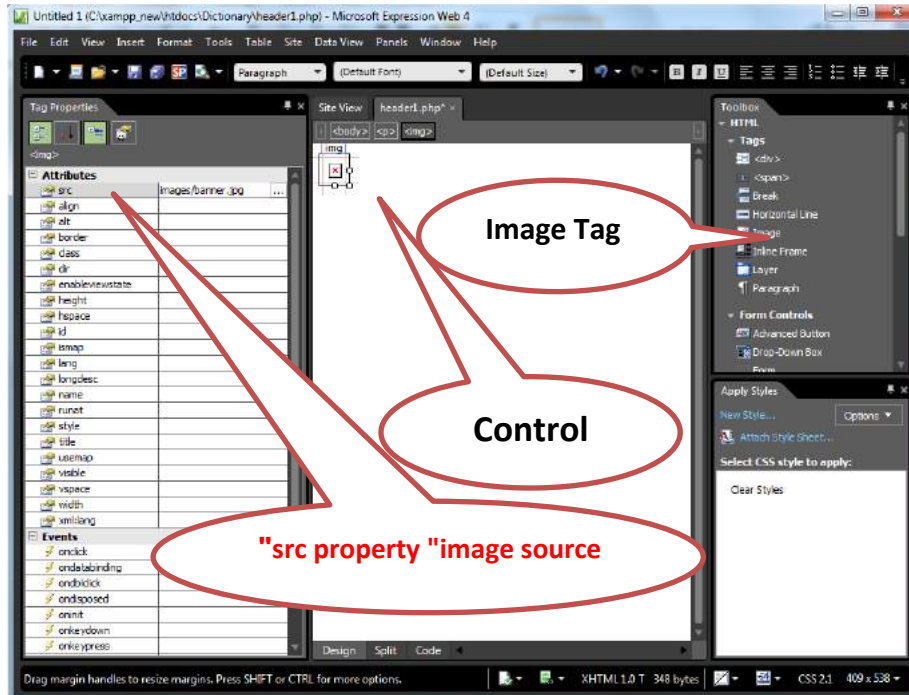


Figure (19) Banner creates images and adjusts their characteristics

Second section:

Some of its properties is assigned, width and right alignment, were set then we typed the names of the pages of the site, leaving some spaces with the code ` ` (an abbreviation that means "Non Breakable Space"). It helps in leaving one space as shown in the following code:"



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



From the study of the previous HTML code, you notice the following:

- (1) Section has been opened by `<div>` and has been closed by `</div>` and a code of insert an image that we want it to be a Banner appear in all pages put between them (No. 1 on the Figure).
- (2) The second section leads to make right alignment to all the content in this section until the close of it, and we make the Arabic texts Hyperlinks to pages of the site. (No. 2 on the figure.)
- (3) **The following code:**

```
<a href = 'index.php'>الرئيسة </a>
```

Refers to:

- The beginning of "Tag":

<code></code>	-the beginning of the code that insert a hyperlink to the web page "index.php" -Which follows the sign "=". - Which may be a file name or the name of a program or Web page name or Internet address, etc ...
---	---

- The end of "Tag":

<code></code>	Then we close the tag with <code></code>
-------------------------	--

- (4) ` ` is an abbreviation that means "Non Breakable Space" It helps in leaving one space and six spaces after "main page" was written 6 times following each of them;
- (5) By the same idea, you can repeat the previous code with the word "الرئيسة" with "إضافة", "search for the term", "تعديل", "and "حذف", then the word "مساعدة" each of them can work as a hyperlink.

You can **recall** "Header.php" with a simple **instruction** at the beginning of each page instead of repeating the code.



-You can create a header.php (page) using Expression Web program as follows:

Insert image, and type some texts underneath, and make some formatting to show up appropriately.

Activity (6)

"Creating a Header page of PHP type in the design screen".

This is what you will do under the supervision of your teacher in the activity book page (49)



We can link each text below the Banner to the page related to it through the following activity:

Activity (7)

"Creating hyperlinks to the pages of the site".

This is what you will do under the supervision of your teacher in the activity book page (50)



Create a page to connect to database Connection.php

We need to add a term or modify data, search for, or delete the term from the database in the "Illustrated Dictionary of computer terms" pages, which requires opening a connection to the database so that we can conduct these operations on the database data.

When you create the connection page to the database, we need to deal with variables, which we will shed the light on before creating this page.



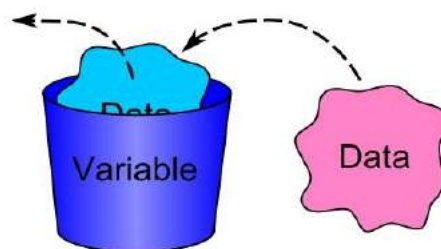
Variables and constants in the language of PHP:

Dear Student, you've studied the concept of variables and constants in prep stage, and the concept is indifferent from what you previously has studied, but let us take some of the spotlight from the perspective of **PHP** language.

Variables in language PHP:

- A Variable is a location in the memory that has a name and type for which we assign a value to be stored in, and its value is changed during the running of the program. For example, if the value of variable **\$Total** is equal to 100, it can replace the value that was assigned with another in the language of **PHP**, with the following assignment statement :

```
$Total = 450;
```



Notice the following:

- We declare the variable when it is used.
- Variable name begins with the symbol "\$"



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- Variable name consists of letters, numbers and sign "_" only, such as:
`$user_name` – `$A123` – `$Password....etc.`
- Variable name should express its content or what it refers to.
- Assignment sign is "=".
- Each statement ends in PHP language with the sign ;
- –To print any information on the browser screen use Print or Echo, as follows:
 - `print $total;`
 - **OR** `echo ("$total")`
- Echo Code can be used to assemble more than a constant or variable on printing on the browser screen and then separate them with a dot"." .

There is another syntax to print the value of the variable as shown in the following example:

```
$name="Mohamed";  
echo "my name is $name";  
echo 'my name is $name';  
echo 'my name is ' . $name;
```

When you execute the previous code the result on the Internet browser screen will be as follows:

```
my name is Mohamed  
my name is $name  
my name is Mohamed
```

After executing the previous code, we notice the following:

- In the first printing phrase, we printed the variable value when placed inside the "Double quotation." quotes
- While the variable between the 'Single quotation' quotes was regarded as text printed as follows: `my name is $ name.`



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- In the third printing phrase, we used dot to print a literal series and the value of the variable.

You can review some types of variables in the language of PHP through the following table:

Type	type of data	Example
String	string	"Mohammad"
Integer	integer number	123
Double	decimals	1.23
Boolean	logical	True / False

📌 It is worth mentioning that we don't declare the variable and its type in the language PHP, but Apache compiler recognizes the variable type through the assigned value to that variable in the assignment statement.

📌 For example: You may know the type of any variable using the function `gettype ($var)`; This is through the following code:

```
<?php
$U_name="mohamed"; // Variable equal to a literal value
echo gettype($U_name); // print variable type
echo "<br />"; // move to next line
echo "Welcome to PHP"; // Print a welcome message in the PHP language
echo "<br />"; // move to next line
echo gettype($test); // print another unselected variable type
?>
```

We notice that:

The output implementation of the code printing type of variable "\$ U_name" on a page of Internet browser is "String". Then Leave line and print a welcoming message "Welcome to PHP", then leave line and print "Null" which means that the variable value is empty due to non-assignment a value to it.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



constants in the language PHP:

The constants are locations in the memory having a name and type with an assigned fixed value that does not change throughout the running of the program, and can be defined by the following general syntax:

```
Define ('Constant Name', Value);
```

Where:

- Constant name: constant must have a name
- Value represents the assignment value.

We note that we do not put \$ sign in front of a c name when we use it, but it is defined.

For example:

```
Define ('name', 'Mohamed');  
  
echo ('my name is: ' name);
```

- We use a (.) In the second line of the code to link the two strings.
- We used the constant without the \$ sign.
- "Define" is used to define constant.
- Each line in PHP language ends with a semicolon;

When you execute the previous code, its result on the Internet browser screen is as follows:

```
my name is: Mohamed
```

It is worth mentioning that the variables and constants are affected by the Case-Insensitive of the letters. And if you want the constant to be not sensitive to the case of letters, use the following formula:

```
Define ('Constant Name', Value, true);
```



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



It's necessary to make sure that:

- (1) **PHP** code is written in accordance with the following syntax:

```
<? php  
        PHP code to be executed  
?>
```

- (2) **CODE** <?PHP declare that the following code is a Script language **PHP** will be executed on the server machine through Apache Server.

- (3) The code of Printing on the browser screen in the language of **PHP** is:

```
Echo ("  
Content to be printed on the browser screen or any HTML Code HTML  
");
```

- (4) each statement in the language **PHP** must end with a semicolon " ; "
- (5) Typing a comment in **PHP** code without being translated or executed before the sign "//".
- (6) As to type a note or a text of more than one line, you should type a comment or notes in full preceded by "/ *" At the end of the note put the mark "/ *".



Dealing with the database dbdictionary:

After you create the database dbdictionary containing computer terms in the Terms table, we will deal with the records of data table through the pages of site "Dictionary Illustrated terms" pages, where we can through the various pages, add the term to the database or search for the term or modify any statement in it or delete the term, and all these processes mainly need to create and open a connection between the database and the pages of the site, so before you execute any of these transactions, we will begin to create a page containing PHP code that you can connect



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



to the database so that it can be called at the beginning of each Web based page one of the updates in the database.

```

Site View  connection.php* x
1  <?php
2
3      $username="root";
4
5      $password="";
6
7      $database="dbdictionary";
8
9      $server="localhost";
10
11     $connect=mysql_connect("$server","$username","$password");
12     if ($connect)
13     {
14         $select=mysql_select_db("$database") or die("هناك مشكلة في قاعدة البيانات");
15     }
16     else
17     {
18         echo("لم يتم الاتصال بقاعدة البيانات");
19     }
20
21 ?>
    
```

Figure (22) the code of the page that connect to the database.

Through considering the previous code, we notice the following:

- ◀ The beginning of the code <?php
- ◀ There are four basic requirements to connect to the database:

Server device name – the user name – password – database name.

Notice: (user name and password).

Code	Explanation
\$username="root;"	MySQL user name is assigned to the variable \$username.
=\$password:""	The default password is assigned to the variable \$. And it should be changed as we will study in the fifth unit.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- Notice (database name)

Code	Explanation
<code>\$database="dbdictionary";</code>	The database name is assigned the variable \$database.

- Notice (server name)

Code	Explanation
<code>\$server="localhost";</code>	The server name "localhost" is assigned to the variable \$server.

```
$connect=mysql_connect ("$server","$username","$password");
```

-The purpose of the previous code is to assign the result of executing the function "mysql_connect" that needs three arguments:

(Host server device name – user name – password.)

To the variable \$connect, where it is the result of "True" if we validate the previous three data, or "False" if it is not so, and to make sure that we use the following IF phrase:

```
If ($connect)
{
    $select=mysql_select_db ("$database") or die
    ("There is a problem in the database");
}
Else
{
    Echo ("We aren't connected to the database");
}
```



Notice the following:

–Detect the condition statement if it is true, connect to the database that's called \$Database through the function `mysql_select_db` or display a message if there is a problem.

The following code:–

Or die ("There is a problem in the database.");

If the value of the variable \$connect, is "False", it displays the message that follows else on the web page that he "isn't connected to the database
هناك مشكلة في قاعدة البيانات .

← The end of the code?

Activity (8)

"Create the page to connect to database rules
"connect.php"

Activity Book page (52)



–١
–٢





The second topic
Operators and conditional
statements in PHP language

Learning outcomes:

By The end of the lesson, the student will be able to:

- 1- Distinguish between Operators in the language of PHP.
- 2- Explain if conditional in the language of PHP.
- 3- Learning Switch statement in the language of PHP.
- 4- Employ different formulas of "If" & Switch statements in solving problem.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Before you start creating a page to add a term, we can review together the concept of Operators, where there are three types in the language of PHP, they are:

Operators:

(1) Mathematical Operators of two types (normal – other).

Operator	Refers to	Example	Example outcome
+	Addition	3+2	5
-	Subtraction	6-4	2
*	Multiplication	5*2	10
/	division	8/2	4
%	remainder of division	10 % 3	1

(2) There are other mathematical operators to the PHP language, such as:

Operation	Example	Means
+ =	\$x +=5	\$x = \$x + 5
- =	\$x -=5	\$x = \$x - 5
* =	\$x *= 5	\$x = \$x * 5
/=	\$x /= 5	\$x = \$x / 5
%=	\$x %= 5	\$x = \$x % 5
++	\$x++	\$x = \$x + 1
--	\$x--	\$x = \$x - 1



(3) Compared Operators:

Operator	==	!=	>	>=	<	<=
Refer to	Equal	Not Equal	Greater Than	Greater Than Or Equal	Less Than	Less Than Or Equal

(4) (5) Logical Operators : They are symbolized as the following table:

Operator	المعنى
	Or
OR	
&&	And
AND	
!	Not

An example of the outputs of the use of the logical operators:

X	Y	X Y	X && Y	!X
True	True	True	True	False
True	False	True	False	False
False	True	True	False	True
False	False	False	False	True

IF Condition:

The **IF conditional**, by which software developers can develop a particular condition and test it. If the result of the condition is true, the program can implement of specific code, and if the result of the implementation of the condition is False, it can carry out another code.

We can use an IF statement in different ways depending on the program requirements, and perhaps the simplest form in which IF statement is used in PHP language is:



If (Logical Condition)

```
{  
Code to be executed if the output of condition is true  
}
```

Where Logical Condition:

Refers to the conditional expression such as:

Degree > 50 or Age < 6 or Name == "Administrator" ... etc.

As it is shown from the above examples and what you have studied before, it is noticed that:

Condition compares between two variables or variable and constant where we find one of the previous comparative operators between them.

In this case, if the condition is true, we can only implement the code in brackets { }.

For example:

```
<?PHP  
$A="First";  
If ($A=="First")  
{  
    Echo "You first";  
}  
?>
```

In the previous example we notice that:

"You first" phrase: Will be typed on the browser screen if the value of the variable \$A equal "First".

Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- Sign"=" in the code (\$A = "First";) represents:

Assignment operator, but the sign "==" with IF statement represents a logical OPERATOR (Equal).

Each sentence in the language PHP ends with:

Semicolon ";"

The following pattern of the IF statement is the most common

```
If (Logical Condition)
{
    الكود المراد تنفيذه إذا تحقق الشرط True
}
Else
{
    الكود المراد تنفيذه إذا لم يتحقق الشرط
}
```

So, it is natural that any condition may have a "True" result. Then we can implement the code of verification requirement only after IF directly, the condition may be the result of "False" is executing the following code for Else only.

For example:

```
<?PHP
    $A="Second";
    If ($A=="First")
        {
            Echo "أنت الأول";
        }
    Else
        {
            Echo "أنت الثاني";
        }
?>
```



In the previous example we notice that:

- **The phrase "أنت الأول":**

Will be printed / typed only on the Internet browser page if the value of the variable \$A is equal to "First", otherwise it will print the words "أنت الثاني," Because the \$A = "Second", the condition is not true, therefore, the result of the full implementation of printing the code is "أنت الثاني".

- **The sign"=" in the code (\$A="First");**

Represents the allocation operator but the sign"=="with the phrase If represents a logical operator.

- **IF Code is fully considered one sentence.**

The following is more complicated one of If statements (If - Else If)

```
If (Logical Condition)
{
    الكود المراد تنفيذه إذا تحقق الشرط الأول
}
Elseif (Logical Condition)
{
    الكود المراد تنفيذه إذا تحقق الشرط الثاني
}
Else
{
    الكود المراد تنفيذه إذا لم يتحقق الشرط الثاني
}
```

We note that:

The first **IF** statement is followed by a condition, if it is true, the following code is executed directly and If not, detect the second condition, if it is true then the following code is executed directly and If not, execute the code after else.

The code from else if to the end of if statement, to represent the answer "No" To the first condition.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Example:

```
<?PHP
    $X=5;
If ($X<0)
    {
        Echo "الرقم سالب"
    }
Elseif ($X>0)
    {
        Echo "الرقم موجب"
    }
Else
    {
        Echo "الرقم يساوي صفر"
    }
?>
```

Because the $X=5$ has achieved the second condition after **Elseif** then the words "الرقم موجب" will be displayed on the Internet browser Screen.

Another style of the IF statement.

(Expression) ? If-True : If-False;

The following example illustrates the use of the previous [Version](#), that's called InLine If:

```
<?PHP
    $x = 1;                // the variable is equal to 1
    $y = ($x == 1) ?'One' : 'Two';
```

The value of \$x is detected, if its value is equal to 1, the value "One" is assigned to \$y variable otherwise the value "Two" is assigned to the variable \$y.

```
Print $y                // print the variable value
?>
```



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Notice that in the previous example (:) **Colon** helped to write more than one sentence in one line it led to the same result, instead of using brackets

.{ }

Secondly: Switch statement

It can be used as one of the conditional statements in the language of **PHP**, from which a number of conditions are checked and each time the condition is achieved, a specific code is executed, and the following example illustrates this:

```
1  <?php
2  $x=1;
3      switch ( $x )
4  {
5      case 1:
6          echo "واحد";
7          break;
8      case 2:
9          echo "اثنين";
10         break;
11
12     case 3:
13         echo "ثلاثة";
14         break;
15
16     default:
17         echo "لا";
18         break;
19     }
20 ?>
21
22
```

Figure (23) PHP code illustrates the use of the switch conditional statement

By analyzing the following code:

- \$x variable began with the value of 1, and then Switch statement is used to check the value of the variable \$x, where there are more than one probability
 - If the value of the variable is equal to 1 ("case 1) "one" is printed and so on for the rest of the possibilities. In the last possibility if the value of the variable were not equal to 1, 2 or 3 the "no "is printed.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- We can exit the switch statement without doing anything by using "Exit", for example, in the last case "Default", we can put the word Exit to Switch out of the statement instead of printing "No".

Another syntax for Switch statement where "case" can take more than one value as the example below:

```
<?php
$a = 2;
Switch ( $a )
{
    case 1:
    case 2:
    case 3:
        echo 'واحد أو اثنين أو ثلاثا';
        break;
    default:
        echo 'أرقام أخرى';
}
```

Print in case \$a
is equal to 1 or
2 or 3

Figure (24) PHP code illustrates another figure for the use of Switch statement

This syntax is equal to the following conditional if

```
If ( $a==1 || $a==2 || $a==3 )
{
    Echo '1 or 2 or 3';
}
```

This operator means: or



The third topic "Add_Term.php" page



Learning outcomes

By the end of this topic students will be able do:

- 1- Design the interface of "add_term" page.
- 2- Write PHP code to include Header & Connection Page.
- 3- Create "add_term" page.
- 4- Verify of adding the term **in** the database.

(1) Design the Interface of add_term page:

Through one of the applications used to create web pages (such as Expression Web) you can create "add term" page with the following design: and save it on the site folder on your computer.



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"

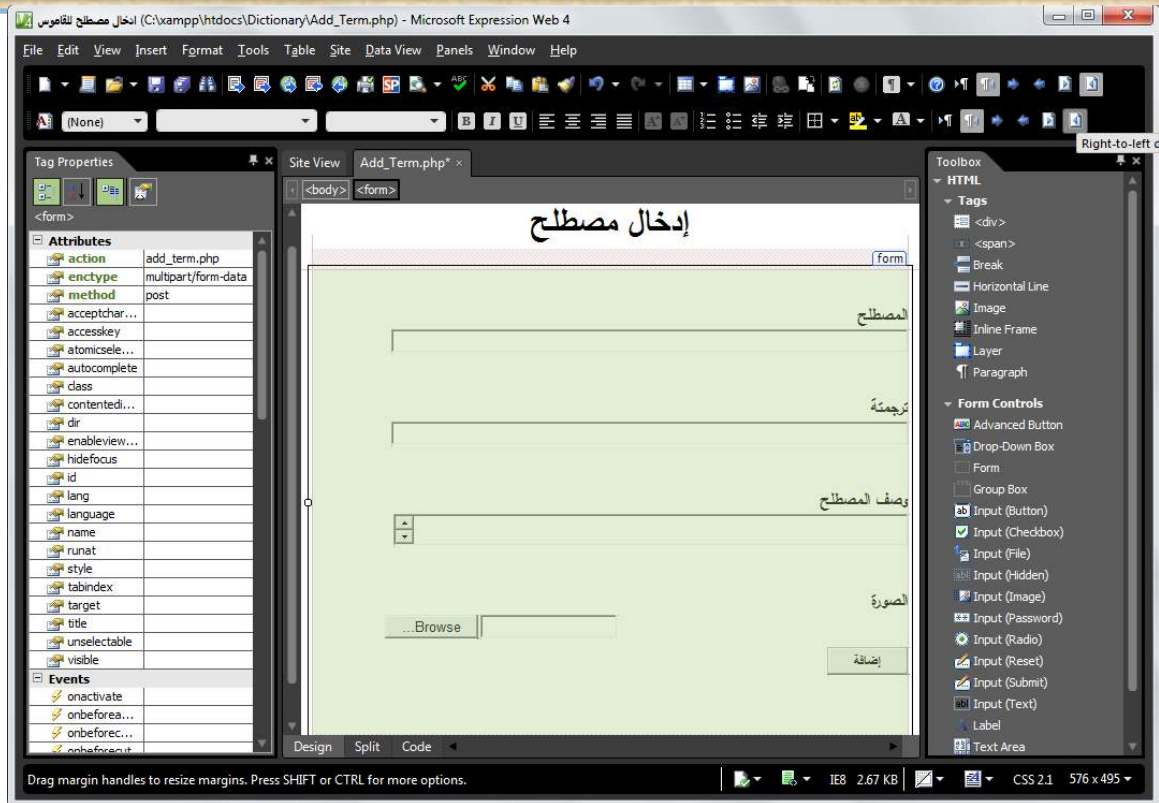
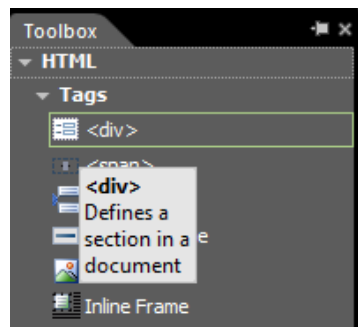


Figure (25) the design of Add_Term.php Page

For the implementation of the previous design in the design mode without writing any code, we take into account the following:

- Writing a title for the screen of add_term which is "إدخال مصطلح". This title has been put in a separate section `<div>` by inserting a section from the Toolbox as follows:

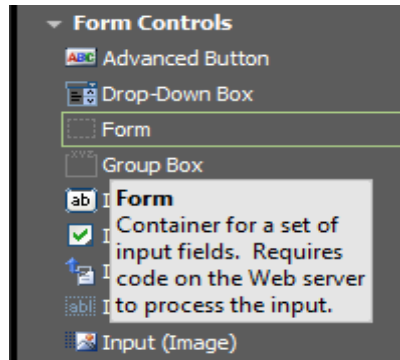


Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- Dear student, you can write texts as in the previous screen and use the "Toolbox" on top right of the screen to insert the controls on the page.
- Inserting the Form from the Toolbox window as follows:



- The "Form" is used to pass or send all the form data in the control tools of the Web browser to the WebServer. There are two ways to send the form data, **they are:**

- 1- **<form method="GET">**
- 2- **<form method="POST">**

Where we can adjust Method property with the value of POST or GET as in figure.

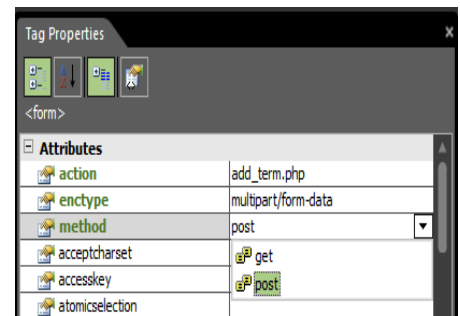


Figure (26) adjusting properties of the Form.

Some important differences between the value (POST) and the value (GET):

GET	POST
Transmitted data appear in the "URL" page <u>address</u> .	Transmitted data do not appear in the "URL" page address.
They are not used to send passwords or any important data.	They are used to send passwords or any important data.
It has a limit of the data used up to 7607 Character.	Its Maximum data used is up to 8 Mb



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



Note:

You will know how to use it in the second term

If you look at the HTML code, you will find the beginning tag of the Form as follows:

```
<form method="post" action="add_term.php" enctype="multipart/form-data">
```

From the previous syntax, we find many of the properties of the Form where:

- The "Method" property has two values: GET or POST.
- The " Action" property: its value is the page name that we move to on clicking" Submit" button.

Some texts expressing the values that are inserted into text boxes are like:

The text "المصطلح" followed by text box to insert term name and so on with the rest to term data. The following syntax shows how to create text box in the internet browser.

```
<input name = "text_term" type = "text" style = "width : 482px">
```

From the previous formula, notice the following:

- "Input" means inserting "control"
- name = "text_term" means that control's anme is "text_term".
- "type = "text" means that the type of control is textbox .
- "style = "width : 482px" means set the width property of textbox.
- The button "إضافة" is responsible for the implementation of the code to insert the new term data in a record in the "dbdictionary" database.
- The rest of page components were put in another section <div>



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"



Dear student Remember:

- You can use the HTML markup language to **create "add Term" page directly.**
- You can carry out the following design of "add_term" page of the The short php code mentioned later>



(2) Writing PHP code:

When the "add_term" page loads on the Internet browser, and you enter data into the controls on the browser page, the data is not linked to the database, so we need to:

- Show "Banner" and titles of web pages at the beginning of the screen and through adding PHP code to insert "Header" page in the place referred to the number (1) on the previous screen with the following code:

```
<?php  
include("header.php");  
?>
```

Figure (28) PHP code to include Header page

- Include the database connection page.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- Write the **PHP code** responsible for the assignment of the data to be entered in the controls on the web browser page to variables, then insert the content of these variables into the fields of a new data record in the database table. Below we will discuss the detailed explanation for the PHP short code and another more accurate and professional with Clarification of shortcomings in the short code.

(A) The Short PHP Code

The final purpose of the following PHP code is to add a new term as a record in the database file through the "**add_term**" [page](#) that was previously designed and created on the Internet browser. The following shortcut code achieves this purpose:

```
<?php
    include("header.php");
    include("connection.php");
    if(isset($_POST['Submit1']))
    { $term=$_POST['txt_term'];
      $trans=$_POST['trans'];
      $defe=$_POST['TextArea1'];
      @$file=$_FILES['File1']['name'];   Store the image filename in variable "$file"
      @$tmp=$_FILES['File1']['tmp_name'];   Store the image in variable "$tmp"
      .
      .
      .
      Move_uploaded_File($tmp,'pic/'.$file);
      .
      .
      $picture="pic/" . $file . " "; Store the image name and its path in variable picture"
      mysql_query("SET NAMES 'utf8'");
      mysql_query("insert into terms values (',$term',,$trans',,$defe',,$picture)");
    } ?>
```

The function used in uploading the file needs to arguments the first is the image and the second is the file name and path of the image.

We note in the previous short code that:

- Include header.php page.
- Include the connection page to the database **connection.php**.
- testing that it has been clicked on the Submit button where it is tested If the user has clicked the "إضافة" button, then the following steps will be executed:



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- Assignment or storing data entered in the text boxes of the new term on the web page to the following variables in order:

(\$term – \$trans – \$defe – \$picture), noting that the variable \$_POST stores the values entered in the controls on the Form when you click the Submit button, as shown in the following code:

- `$term=$_POST['txt_term'];`
 - `$trans=$_POST['trans'];`
 - `$defe=$_POST['TextArea1'];`
 - `@$file=$_FILES['File1']['name'];`
 - `@$tmp=$_FILES['File1']['tmp_name'];`
 - `Move_uploaded_File($tmp,'pic/'.$file);`
 - `$picture="pic/" . $file . " ";`
- Be sure of creating a folder called “pic” in the following path: `c:\xampp\htdocs\terms` and to upload the image file on the server, the chosen file name from the user is assigned to the variable `$file` and we note that the sign `@` is named pointer and the language PHP is dealing with it as a variable .This benefits in the error message won't appear if the value is empty.
 - The purpose of the code: `mysql_query ("SET NAMES 'utf8'");` is using the function `mysql_query` in showing the data on the web page in Arabic correctly and it will not appear as question marks???????
 - The purpose of the last statement of the code with all its contents and as it is pointed to as follows:

```
$query=mysql_query ("insert into terms values (", '$term', '$trans', '$defe', '$picture')");
```



- Creating the variable \$query where a value for executing the (Mysql_query) is assigned for it , which contains the insert statement of the SQL language that's concerned with inserting the data that has been stored in the variables to the corresponding fields in the database table "terms".

When executing the previous code there is a new record will be inserted immediately in table "terms", but we will find that the short code lacks some points that will be explained in the code (B) more professionally than some of the short comings in the short code:

1- Inserting a term image requires, as an organizational issue, to create a folder containing all images of all the terms entered into the database table. Therefore, it is preferable to add a PHP code that tests the existence of this folder, if the folder is exist then the image file will be copied to and if not exist the folder should be created and put the image in it.

2- If the user **clicked** on the button "إضافة" and there isn't any data of the new term or left some data empty, there is an empty record will be added in "terms" table in the database, so we should be sure that the user has entered all the term data before adding it as a record in the term database table.

3-We also note that the short code doesn't react after pressing on the button "اضافة" so the user doesn't know if the process of adding the data of a new term is done successfully or not, so we should be sure of it, and have a message shows if the adding of record is done successfully or not.

(B) The Most Precise PHP Code:

At this point we could insert the term data in the controls on the web browser but they are unconnected data in the database so we need to:



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



- Showing the Banner and the titles of the web pages at the beginning of the screen and this through adding PHP code that's concerned with inserting "Header" page in the referred place by (1) on the previous screen by the following code:

```
<?php  
include("header.php");  
?>
```

Figure (28) PHP code for including The Header page

- Doing the connection to the database.
- Be sure of inserting the data in the controls on the web browser.
- Registering the term data in the table of the database and that's through PHP code that connected with the button "إضافة" in the reverved place by number(2) on the HTML code screen that's concerned with designing "Add term page".



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



```
47 <?php
48 include("connection.php");
49 if(isset($_POST['Submit1']))
50 {
51     if(!is_dir('pic')) { mkdir('pic'); }
52     @$file=$_FILES['File1']['name'];
53     @$tmp=$_FILES['File1']['tmp_name'];
54     if(!empty($file)) { move_uploaded_file($tmp,'pic/'.$file); }
55     $term=$_POST['txt_term'];
56     $trans=$_POST['trans'];
57     $defe=$_POST['TextArea1'];
58     $picture="pic/" . $file . " ";
59     if ( $term != "" && $trans != "" && $defe != "" && !empty($file) )
60     {
61         mysql_query("SET NAMES 'utf8'");
62         $query=mysql_query("insert into terms values(',$term','$trans','$defe','$picture')");
63         if($query)
64         {
65             $datares="تم اضافة البيانات بنجاح";
66             echo("<label id='Label1' style='color: #FF0000;font-size: x-large;'> $datares </label> ");
67         }
68         else
69         {
70             $datares="الم يتم اضافة البيانات";
71             echo("<label id='Label1' style='color: #FF0000;font-size: x-large;'> $datares </label> ");
72         }
73     }
74     else
75     {
76         $datares="البيانات التي تم إدخالها غير صحيحة يجب إدخال جميع الحقول";
77         echo("<label id='Label1' style='color: #FF0000;font-size: x-large;'> $datares </label> ");
78     }
79 }
80 ?>
```

Conditional clause to test the pic folder and create it in case it doesn't exist

It is a conditional clause to test if we select an image file

Figure (29) PHP code to add a new term

Dear Student, see the explanation of the code in details of the code as follows:



`<?php`

- Including the [connection](#) page to the database by the following code:

```
include("connection.php");
```

Verify clicking the Submit button.

-The following code checks if the user has clicked the "إضافة" button. First, we verify that there is a folder named "pic" which is assigned to hold images inside, if this folder is not created, we create it.

```
If (isset($_POST['Submit1']))
```

```
{
```

```
If (!is_dir('pic')) { mkdir('pic'); }
```

-By the same way you can create other folders for images or videos, whether with the code or through Operating system in the project folder.

Uploading image file in the server

We assign file name chosen by the user File1 to \$file variable, with a note that the sign @, Called Pointer which PHP language deals with as a variable, and this does not show up an error message if its value is empty.

```
@$file=$_FILES['File1'] ['name'];
```

```
@$tmp=$_FILES['File1'] ['tmp_name'];
```

-Check whether the image file name is not specific, the image file is loaded from the "pic" folder.

```
if (!empty($file)) { move_uploaded_file($tmp,'up/'.$file); }
```

The Assignment values of controls to the variables:

-The data for the new term, entered in the text boxes on the web page are assigned to the following variables, in the order of \$term - \$trans \$defe\$



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



`$picture`), noticing that the `$_POST` variable stores the values of controls on the form when you press the Submit button.

```
$term=$_POST['txt_term'];
```

```
$trans=$_POST['trans'];
```

```
$defe=$_POST['TextArea1'];
```

```
$picture="pic/" . $file . ".jpg";
```

Verification of input values in the controls on the [form](#).

-The following If statement is to ensure that these variables are not null; some values were assigned into them. If the condition is true and all variables aren't null, if statement does the following:

-The use of my `sql_query` function helps to show the data on a Web page in Arabic; they don't appear in the form of question marks like this

```
if ($term !== "" && $trans !== "" && $defe !== "" && !empty($file) )
```

```
{
```

```
mysql_query("SET NAMES 'utf8'");
```

```
$query=mysql_query("insert into terms values (',$term',$trans,$defe,$picture)");
```



-We created variable `$query` for which we assign the value of executing the `mysql_query` function containing "insert statement" related to **SQL** language which will enter the data that is stored in the variables to the corresponding fields in the "terms" database table.

-Then be sure to enter data in the database if `$query`, If this is done you will see the message "data have been inserted successfully", otherwise the message "data haven't been inserted successfully" appears.



Unit 3: Creating Site Pages

"Illustrated Dictionary of computer terms"



```
if ($query)
{
$datares="تم إضافة البيانات بنجاح";
    echo("<label id='Label1' style='color:
    #FF0000;font-size: x-large;'> $datares </label>
    ");
}
else
{
$datares="لم يتم إضافة البيانات";
echo("<label id='Label1' style='color:
    #FF0000;font-size: x-large;'> $datares
    </label> ");
}
}
else
-In case of not entering data to all fields or some of them, the message "the
data entered are incorrect. "You must enter all fields", is displayed"
{
$datares="البيانات التي تم إدخالها غير صحيحة يجب إدخال جميع الحقول";
echo("<label id='Label1' style='color:
    #FF0000;font-size: x-large;'> $datares </label> ");
}
}
?>
```



Activity (9)

"Create Add_Term.php" Page

Dear student,

Now you can use webpage as an interface to deal with the database table to add a new term, and do other operations, through your Activity 9 activity book Page **53**



(3) Executing "Add term page"

On browsing term page" in the internet browser, the page appears and through the following address:

localhost/dictionary/add_term.php



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"



Figure (30) Window of browser [the add_term.php page](#)

- If you do not **enter** data and you **click** the "إضافة" button, the message "the data entered are incorrect. You must enter all fields", is displayed **below** as follows:



Figure (31) [displaying window of add_term.php for incomplete data term](#)

- On adding all the data of the term as follows:



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"



Figure (32) window of **adding** a term

- By clicking the "إضافة" button, the message "data are successfully added" appears **at the** bottom of the browser screen.



Figure (33) Window for the assurance of adding the term correctly

Remember:

The short code does not show any messages stating whether or not to add a new record in the database table.



Unit 3: Creating Site Pages "Illustrated Dictionary of computer terms"



(4) Be sure to add the term to the database

To be sure that you **insert** data to a new record in the database, open the database in a new tab of Internet browser by typing the following link "localhost/phpmyadmin" in the address bar and make sure of inserting a new record in the "terms table":

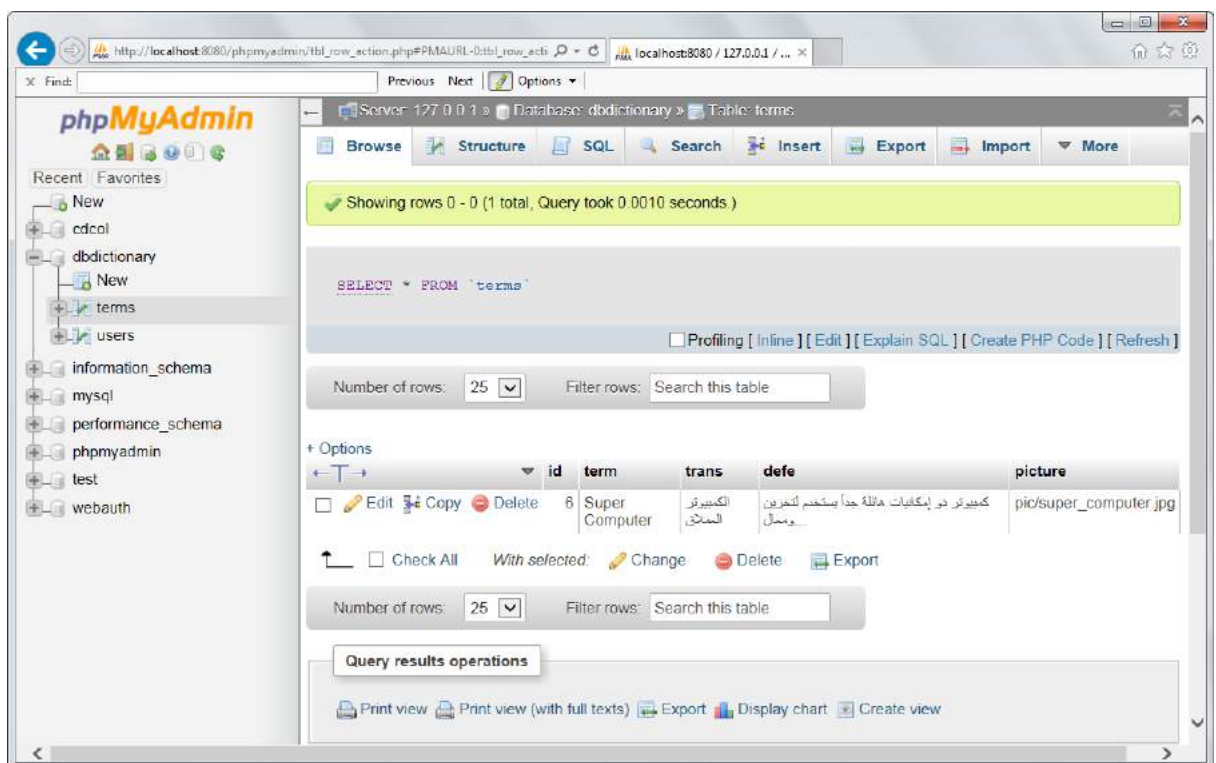


Figure (34) Window for the assurance of adding the term in the database table



Goodbye
See you in the second
term

