## PHP

With pure **HTML web pages**, the server simply serves **static HTML** that only display content. PHP is used to turn the web sites into interactive web application.

  



Fig 1: Web Server 🡪 Static HTML File 🡪 Client Web Browser

With **PHP** in the mix, the web server is able to **dynamically generate HTML** web pages

   





Fig 2: Web Server 🡪 PHP 🡪 MySQL 🡪 PHP 🡪 Client Web Server

**PHP**: **Personal Home Pages**, it was later changed **PHP Hypertext Processor**.

**PHP**: **Server-side programming language** – it runs on a web server.

### Simple Form(Form.html)

<!doctype html>

<**html**>

<**head**>

<**meta** charset = "UTF-8"/>

<**title**> Simple Form </**title**>

</**head**>

<**body**>

<**p**> Please fill out the form </**p**>

<**img** src = "database.png" width = "100" height = "175"

alt = "database picture"/><**br**/>

<**form** method = "post" action = "khan.photon@gmail.com">

<**label** for = "firstname"> First Name: </**label**>

<**input** type = "text" id = "filename" name = "firstname"/><**br**/>

<**label** for = "lastname"> Last Name: </**label**>

<**input** type = "text" id = "lastname" name = "lastname"/><**br**/>

<**label** for = "email"> Email: </**label**>

<**input** type = "email" id = "email" name = "email"/><**br**/>

<**label** for = "gender">Gender: </**label**>

Male <**input** type = "radio" id ="gender" name = "gender" value = "male">

Female <**input** type = "radio" id = "gender" name = "gender"

value = female"><**br**/>

<**label** for = "description"> Description: </**label**>

<**textarea** name = "description"> Max word 500 words </**textarea**><**br**/>

<**input** type = "submit" value = "Submit" name = "submit"/>

</**form**>

</**body**>

</**html**>

Code 1 (Form.html): Simple Form HTML Code

**Tags:** <**form**></**form**>, <**input></input>,** <**label></label>**

**Attributes**: action, type, id, method, name, class, value

### Breakdown(Form.html)

Basic HTML Format

<!doctype html>

<**html**>

<**head**>

<**meta** charset = "UTF-8"/>

<**title**> Simple Form </**title**>

</**head**>

<**body**>

</**body**>

</**html**>

|  |  |
| --- | --- |
| **Labels/Tags** | **Description** |
| <!doctype html> | A document type declaration |
| <**html**> | Tells the browser that this is an HTML document |
| <**head**></**head**> | Includes title for the document, scripts, styles, meta information |
| <**meta** charset="UTF-8"/> | Specifies what character set is our website written with |
| "UTF-8" | Universal Character Set + Transformation Format 8-bit |
| <**body**></**body**> | This is where all the HTML contents are written |
| <**p**></**p**> | Paragraph |
| <**img** src="database.png"/> | Include Image, Attribute src is the image src path |
| alt="database picture" | Alternatively, text will show up if no image found |
| width="100" height="175" | Fixing the width and height of the image |

<**form** method = "post" action = "khan.photon@gmail.com">

Form action attribute should be changed

<**form** method = "post" action = "report.php"></**form**>

Form tag causes the PHP script to run on the server.

|  |  |
| --- | --- |
| **Labels/Tags** | **Description** |
| <**input><**/**input>** | Input tag is the input field where user can enter data |
| type="text | Attribute type is the value received and saved from the user |
| id="filename" | Attribute id is the unique identifier; used for manipulating the element |
| name="firstname" | Attribute name is the value received and saved from the user |

<**label** for = "gender">Gender: </**label**>

Male <**input** type = "radio" id ="gender" name = "gender" value = "male">

Female <**input** type = "radio" id = "gender" name = "gender" value = "female">

Label tag allows user clicks on the text within the <**label>** element, it toggles the control.

For attribute should be equal to the id attribute of the related element to bind together

<**textarea** name = "description"> Max word 500 words </**textarea**><**br**/>

Textarea tag allows users to type multi-lines, description type situations

<**input** type = "submit" value = "Submit" name = "submit"/>

Type attribute allows user to make a submit button

Value attribute allows user to change the text in the submit button

<**br**/>

It allows the display go to next line. Single line break.

### Confirmation(Report.php)

<?php

**if**(!empty($\_POST["submit"])):

$firstname = $\_POST["firstname"];

$lastname = $\_POST["lastname"];

$email = $\_POST["email"];

$gender = $\_POST["gender"];

$description = $\_POST["description"];

**echo** "First Name: ".$firstname."<br/>";

**echo** "Last Name: ".$lastname."<br/>";

**echo** "Email: ".$email."<br/>";

**echo** "Gender: ".$gender."<br/>";

**echo** "Description: ".$description."<br/>";

**endif**;

?>

Code 2 (Report.php): Receiving the user input information from form.html

### Breakdown(Report.php)

|  |  |
| --- | --- |
| **Labels/Tags** | **Description** |
| <?php ?> | It indicates that the PHP code is written in this block |
| **If**(condition): | If the condition is true, do the following statement |
| $\_POST["submit"] | $\_POST receives the value from the name attribute |
| $firstname | $ creates the variable |
| **echo** | Outputting information beyond the confines of the <?php ?> |

Web browser know nothing about PHP and, therefore, have no ability to run PHP scripts.

Web servers with PHP support are equipped to run PHP scripts and turn them into HTML web pages that browsers can understand.

Every PHP must end with a semicolon “;”.

Name the PHP file with “.php”

### PHP Information(info.php)

<?php

phpinfo();

?>

Code 3 (Info.php): Detailed information about the PHP installed in the PC

### Variable

* PHP variable names must begin with a dollar sign, and cannot contain spaces
* The first character after the dollar be a letter or an underscore “\_”
* Characters after the first character after that can be a **letter, an underscore, or a number**
* Spaces and special characters are not allowed in any part of a variable name
* Use all lowercase for variable name
* Separate words in a multi-word variable name with underscores

### Assigning value to the variable

$description = “I am the man.”;

Pieces of text(strings) must be enclosed by quotes, either single quotes or double quotes.

### Special Variable

$\_POST is a special variable that is known as a superglobal. It is a collection of storage locations used to hold data from a web form. It is also an **array**. This array is filled the values the user entered into the form.

### Concatenation

**echo** "Description: ".$description."<br/>";

The period allows us to stick multiple strings of text together as one. This process is known as concatenation.

<?php

$name = "Jack Stubbort";

$age = "17";

$place = "Netherland";

$msg = $name."is ".

$age."-years-old. "

."He works in ".$place.".";

**echo** $msg;

?>

Code 4 (Concatenation.php): Long line of PHP codes spanned across multiple lines

### Escape Characters

* Escape characters in PHP starts with a backlash “\”
* Escape characters can be escaped in double-quoted only
* Single-quoted string only allow ‘\’ but not ‘\\’

<?php

$name = "Allen Smith";

$age = "21";

$occupation = "Engineer";

**echo** '$name is $age-years-old. \r\n He is an \"$occupation.\"';

**echo** "<br/><br/>";

**echo** nl2br("**$name** is **$age**-years-old. **\n** He is an **\"$occupation**.**\"\n\n**");

**echo** "**\\** **\"**";

?>

Code 5 (DoubleSingle.php): Escape Characters.

For newline break, we need to use nl2br() function to go new line.

### Mailing

#### Initial Setup

We can send mail from localhost with sendmail package, sendmail package is inbuild in XAMPP. So, if we are using XAMPP then you can easily send mail from localhost.

For example: We can configure C:\xampp\php\php.ini and c:\xampp\sendmail\sendmail.ini for gmail to send mail.

In C:\xampp\php\php.ini find extension=php\_openssl.dll and remove the semicolon from the beginning of that line to make SSL working for gmail for localhost.

In php.ini file find [mail function] and change

SMTP=smtp.gmail.com

smtp\_port=587

sendmail\_from = my-gmail-id@gmail.com

sendmail\_path = "\"C:\xampp\sendmail\sendmail.exe\" -t"

Now Open C:\xampp\sendmail\sendmail.ini. Replace all the existing code in sendmail.ini with following code

[sendmail]

smtp\_server=smtp.gmail.com

smtp\_port=587

error\_logfile=error.log

debug\_logfile=debug.log

auth\_username=my-gmail-id@gmail.com

auth\_password=my-gmail-password

force\_sender=my-gmail-id@gmail.com

Now you have done!! create php file with mail function and send mail from localhost.

PS: Don't forgot to replace my-gmail-id and my-gmail-password in above code. Also, don't forget to remove duplicate keys if you copied settings from above. For example comment following line if there is another sendmail\_path : sendmail\_path="C:\xampp\mailtodisk\mailtodisk.exe" in the php.ini file

Also remember to restart the server using the XAMMP control panel so the changes take effect.

For gmail please check [**https://support.google.com/accounts/answer/6010255**](https://support.google.com/accounts/answer/6010255%20) to allow access from less secure apps.

**Source:** [**https://stackoverflow.com/questions/15965376/how-to-configure-xampp-to-send-mail-from-localhost**](https://stackoverflow.com/questions/15965376/how-to-configure-xampp-to-send-mail-from-localhost)

### Mailing(Mail.php)

<?php

**echo** '<!doctype html>';

**echo** ' <html>';

**echo** ' <head>';

**echo** ' <meta charset = "UTF-8"/>';

**echo** ' <title> Simple Form </title>';

**echo** ' </head>';

**echo** ' <body>';

**echo** ' <img src = "images/database.png" width = "100" height = "100"';

**echo** ' alt = "database picture"/><br/>';

**echo** ' <p> Please fill out the form </p>';

**echo** ' <form method = "post" action = "';

**echo** $\_SERVER['PHP\_SELF']."**\"**>";

**echo** ' <label for = "firstname"> First Name: </label>';

**echo** ' <input type = "text" id = "filename" name = "firstname"/><br/>';

**echo** ' <label for = "lastname"> Last Name: </label>';

**echo** ' <input type = "text" id = "lastname" name = "lastname"/><br/>';

**echo** ' <label for = "email"> Email: </label>';

**echo** ' <input type = "email" id = "email" name = "email"/><br/>';

**echo** ' <label for = "gender">Gender: </label>';

**echo** ' Male <input type = "radio" id ="gender" name = "gender" value = "male">';

**echo** ' Female <input type = "radio" id = "gender" name = "gender" value = "female"><br/>';

**echo** ' <label for = "description"> Description: </label>';

**echo** ' <textarea name = "description"> Max word 500 words </textarea><br/>';

**echo** ' <input type = "submit" value = "Submit" name = "submit"/>';

**echo** ' </form>';

**echo** ' </body>';

**echo** ' </html>';

?>

Code 6 (Mail.php): First Section.

Form.html file has been converted to PHP file by adding echo.

$\_SERVER['PHP\_SELF']

The form sends the data to the same page and not directing to another PHP file.

<?php

**if**(!**empty**($\_POST["submit"])):

$firstname = $\_POST["firstname"];

$lastname = $\_POST["lastname"];

$email = $\_POST["email"];

$gender = $\_POST["gender"];

$description = $\_POST["description"];

**echo** "First Name: ".$firstname."<br/>";

**echo** "Last Name: ".$lastname."<br/>";

**echo** "Email: ".$email."<br/>";

**echo** "Gender: ".$gender."<br/>";

**echo** "Description: ".$description."<br/>";

$to = "khan.photon@gmail.com";

$subject = "Extra Description";

$message = $description;

mail($to, $subject, $message, 'From:'.$email);

*//Allow less secure apps on*

**endif**;

?>

Code 7 (Mail.php): Second Section.

It is exactly like the Report.php file only the mail($to, $subject, $message, 'From:'.$email) function has been added.

|  |  |
| --- | --- |
| **Variable** | **Description** |
| $to | Whom you are sending email to |
| $subject | Subject part of the email |
| $message | The actual message of the email |
| 'From:'.$email | Email Address of the sender |
| "From:".$email."\r\nCc:".$cc | Separate From and CC using (\r\n), Use double quotation |

### Connecting to the Database

SQL: Structured Query Language, it is the language used to communicate.

MySQL: Stores data inside of database tables. MySQL databases are organized into tables, which store information as rows and columns of related data.



  

 

Fig 3: Client Web Server 🡪 Request 🡪 Web server Response

### Communicating with a Databaser Server

PhpMyAdmin: It is a graphical tool that allows us to create databases and tables through a web interface



Fig 4: PhpMyAdmin

First of all, install XAMPP for Windows or install LAMPP for Linux.

#### Installing XAMPP for Windows

Go to this link, [**https://www.apachefriends.org/download.html**](https://www.apachefriends.org/download.html), Download the latest version of XAMPP through the Mozilla browser.

After installation, open the XAMPP software and turn on



Fig 5: XAMPP Control Panel

Create a folder in **C:\xampp\htdocs\,** you can name folder anything, for the time being let us just create a folder named “practice”. Now we will have **C:\xampp\htdocs\practice,** we can create PHP or HTML files inside it and then deploy it on the browser. Let us create a file, **form.php**. Therefore, we will end up having **C:\xampp\htdocs\practice\form.php.**

Now go to your favorite browser, type [**http://localhost/practice/form.php**](http://localhost/practice/form.php)**,** code in PHP would display here. Therefore **C:\xampp\htdocs\** folder location gets replaced by [**http://localhost/**](http://localhost/) in your browser.

If we type, [**http://localhost/phpmyadmin/**](http://localhost/phpmyadmin/)**,** this will show our MySQL database.

#### Light Weight Editor (Sublime Text Editor)

From this link download, [**https://www.sublimetext.com/3**](https://www.sublimetext.com/3)**,** this is probably one of the best coding editor.

If you want to install packages in sublime text first you need to install **package control.** Press the **Ctrl+`** in sublime editor and copy paste the code given in [**https://packagecontrol.io/installation**](https://packagecontrol.io/installation)**.**



Fig 6: Sublime Text Editor (Package Control Install)

Once installed, press **Ctrl+Shift+P,** type in **Package Control: Install Package**

#### Installing XAMPP for Linux

Go to this link, <https://www.apachefriends.org/download.html>, Download the latest version of XAMPP.

Go to **/Home/Your-Username/Downloads.** Ex: **/Home/Photon/Downloads**

Open the command terminal there and type:

**sudo chmod 777 name-of-the-downloaded-file.**

Ex: **sudo chmod 777 ./xampp-linux-x64-7.2.2-0-installer.run**

This allows the administration permission to install the file

**sudo ./name-of-the-file**

Ex: **./xampp-linux-x64-7.2.2-0-installer.run**

This is how the installation of the file works

**sudo /opt/lamp/lampp start**

This starts the LAMPP on

#### Installing Sublime Editor for Linux

sudo apt-get-repository ppa:webupd8team/sublime-text-3

sudo apt-get update

sudo apt-get install sublime-text-installer

This is how the installation of the file works

### Creating a Database

Creating a database (form\_table). Tables are stored in database



Fig 7: Creating a Database (form\_table)

Click on New 🡪 Type in database name (form\_table) 🡪 click on create

#### Creating a Table

Tables serves as a way to divide up the data in a database into related groups



Fig 8: Creating a Table (Inside the form\_table Database)

#### Breakdown (SQL: form)

CREATE TABLE form (

id INT AUTO\_INCREMENT,

first\_name VARCHAR(30),

last\_name VARCHAR(30),

email VARCHAR(50),

gender VARCHAR(10),

description VARCHAR(100),

PRIMARY KEY(id)

)

Code 8: Create a form table

CREATE TABLE form

Name of the table is form

id INT AUTO\_INCREMENT

Number the rows using id, (integer and it will increment by itself)

first\_name VARCHAR(30)

First name will be stored here, its variable character length is 30

email VARCHAR(50)

Variable character length is 50

PRIMARY KEY(id)

This allows id to uniquely identify each record in the table

#### Using INSERT command

INSERT INTO form(first\_name, last\_name, email, gender, description)

VALUES('Photon', 'Khan', 'khan.photon@gmail.com', 'male', 'I am too fat')

Code 9: Insert data into the form table

INSERT INTO table\_name (column\_name, …. …. ….. ….)

VALUES (‘value 1’, ‘value 2’)

See the values are in single quotation. Values in the set of parentheses have to be in the same order as the database column names

#### Using SELECT command

SELECT columns FROM table\_name

Ex: SELECT first\_name, last\_name FROM form

SELECT \* FROM table\_name

Ex: SELECT \* FROM form

\*: Fetch all the data from all the columns in the table

Code 10: Select data from the table

### Automating SQL using PHP

Using PHP all the data entered through the form will be saved into the database.

<?php

**echo** '<!doctype html>';

**echo** ' <html>';

**echo** ' <head>';

**echo** ' <meta charset = "UTF-8"/>';

**echo** ' <title> Simple Form </title>';

**echo** ' </head>';

**echo** ' <body>';

**echo** ' <p> Please fill out the form </p>';

**echo** ' <form method = "post" action = "';

**echo** $\_SERVER['PHP\_SELF']."**\"**>";

**echo** ' <label for = "firstname"> First Name: </label>';

**echo** ' <input type = "text" id = "filename" name = "firstname"/><br/>';

**echo** ' <label for = "lastname"> Last Name: </label>';

**echo** ' <input type = "text" id = "lastname" name = "lastname"/><br/>';

**echo** ' <label for = "email"> Email: </label>';

**echo** ' <input type = "email" id = "email" name = "email"/><br/>';

**echo** ' <label for = "gender">Gender: </label>';

**echo** ' Male <input type = "radio" id ="gender" name = "gender" value = "male">';

**echo** ' Female <input type = "radio" id = "gender" name = "gender" value = "female"><br/>';

**echo** ' <label for = "description"> Description: </label>';

**echo** ' <textarea name = "description"> Max word 500 words </textarea><br/>';

**echo** ' <input type = "submit" value = "Submit" name = "submit"/>';

**echo** ' </form>';

**echo** ' </body>';

**echo** ' </html>';

?>

Code 11: Form.php (First Part)

<?php

**if**(!**empty**($\_POST["submit"])):

$firstname = $\_POST["firstname"];

$lastname = $\_POST["lastname"];

$email = $\_POST["email"];

$gender = $\_POST["gender"];

$description = $\_POST["description"];

**echo** "First Name: ".$firstname."<br/>";

**echo** "Last Name: ".$lastname."<br/>";

**echo** "Email: ".$email."<br/>";

**echo** "Gender: ".$gender."<br/>";

**echo** "Description: ".$description."<br/>";

$server\_name = "localhost";

$user\_name = "root";

$password = "";

$database\_name = "form\_table";

$connection = mysqli\_connect($server\_name, $user\_name, $password, $database\_name)

**or** **die**("Could not connect to the server");

$query = "INSERT INTO form(first\_name, last\_name, email, gender, description)

VALUES('**$firstname**','**$lastname**', '**$email**', '**$gender**', '**$description**')";

$result = mysqli\_query($connection, $query) **or** **die**("Error Querying database");

mysqli\_close($connection);

**endif**;

?>

Code 12: Form.php (Second Part)

#### Breakdown (Form.php (Second Part))

$connection = mysqli\_connect($server\_name, $user\_name, $password, $db\_name)

**or** **die**("Could not connect to the server");

$query = "INSERT INTO form(first\_name, last\_name, email, gender, description)

VALUES('**$firstname**','**$lastname**', '**$email**', '**$gender**', '**$description**')";

$result = mysqli\_query($connection, $query) **or** **die**("Error Querying database");

mysqli\_close($connection);

**endif**;

|  |  |
| --- | --- |
| **Terms** | **Explanation** |
| Mysqli | “i” over here stands for improved |
| mysqli\_connect | This allows us to connect to the database |
| $server\_name | It is “localhost” by default if we are running website “locally” |
| $user\_name | “root”, by default phpMyAdmin gives username as root |
| $password | “”, by default, there is no password |
| $db\_name | Database name |
| mysqli\_query() | It allows us to send the SQL command using PHP |
| mysqli\_close() | Connection should be closed or else the DB might get corrupted |
| **die**() | This function terminates a PHP script and gives the feedback of the error |

To be sure check your phpMyAdmin home page



Fig 9: Checking the server name, user name and the password

#### Database check in actual website

First go to **your-name-of-the-website/cpanel**

Ex: [**www.sphotonkhan/cpanel**](http://www.sphotonkhan/cpanel)

Before going to phpMyAdmin, go to MySQL® Database Wizard



Fig 10: MySQL Database Wizard (1st Step)



Fig 11: MySQL Database Wizard (2st Step)

|  |  |
| --- | --- |
| $server\_name | bh-40 |
| $user\_name | sphotonkhan |
| $password | photon |
| $db\_name | sphotonk\_test |

To get the server information go to Server Information

Fig 12: General Information 🡪 Server Information



Fig 13: Server Information

#### Selecting all the data from the table

<?php

$server\_name = "localhost";

$user\_name = "root";

$password = "";

$db\_name = "form\_table";

$connection = mysqli\_connect($server\_name, $user\_name, $password, $db\_name)

**or** **die**("Could not connect to the database");

$query = "SELECT \* FROM form";

$result = mysqli\_query($connection, $query)

**or** **die**("Query not working");

**while**($row = mysqli\_fetch\_array($result)){

$id = $row['id'];

$first\_name = $row['first\_name'];

$last\_name = $row['last\_name'];

$email = $row['email'];

$gender = $row['gender'];

$description = $row['description'];

**echo** nl2br("Name: **$first\_name** **$last\_name\n**");

**echo** nl2br("Email: **$email\n**");

**echo** nl2br("Gender: **$gender\n**");

**echo** nl2br("Description: **$gender\n\n**");

}

mysqli\_close($connection);

?>

Code 13: Select.php

### Web Application

A web application is a dynamic web site that designed to fulfill a particular purpose for it users.

A database is a container storing data in a very structured way. Table stores data in a grid-like pattern of columns and rows. Columns consists of specific type of data. Rows are collection of columns where a single row consists one of each column. Table rows are horizontal, and table columns are vertical.

**Application Purpose**: Customer wants to add into the newsletter program for a particular shop, i.e. get emails about the discounts and so on. Customer also have the authority to get removed from the newsletter program.

    

Add Email PHP Script PHP Engine Server Database

    

Send Email PHP Script PHP Engine Server Client



Database

Fig 14: Web Application

CREATE DATABASE is the SQL command used to create a new database.

CREATE DATABASE database\_name

Ex: CREATE DATABASE store

Text data takes more room to store than integer data. To create a table, we need to know what type of data is stored in each table column.

**Column Types**

CHAR: Character, Highly efficient for the texts with fixed length

INT: Integer, Whole Number, Negative numbers can also be stored

TINYINT: Small Integer

BLOB: Large gobs of binary data

DEC: Decimal

DATETIME: She keeps track of the date

TIMESTAMP: She keeps track of the date

DATE: Keep track of dates

VARCHAR: Variable Character

TEXT: Store huge amount of text

CREATE TABLE SQL is used to create a new table in a database.

CREATE TABLE table\_name (column name column type, …)

It is not possible to recreate the same table using CREATE TABLE

USE command selects a database as the default database for subsequent SQL statements

Ex: USE store

DESCRIBE reveals the structure of tables

Ex: DESCRIBE store

DROP deletes a table and all its data from the database

Ex: DROP TABLE store

### Add Email Script

First Create Table

CREATE TABLE email\_list(

id INT AUTO\_INCREMENT,

first\_name VARCHAR(250),

last\_name VARCHaR(250),

email VARCHAR(60),

PRIMARY KEY(id)

)

<!doctype html>

<**html**>

<**head**>

<**title**> Add Email </**title**>

<**meta** charset = "UTF-8"/>

</**head**>

<**body**>

<**p**> Enter Your Details </**p**>

<**form** method = "post" action = "addemail.php">

<**label** for = "first\_name"> First Name: </**label**>

<**input** type = "text" name = "first\_name" id = "first\_name"><**br**/>

<**label** for = "last\_name"> Last Name: </**label**>

<**input** type = "text" name = "last\_name" id = "last\_name"><**br**/>

<**label** for = "email"> Email: </**label**>

<**input** type = "email" name = "email" id = "email"><**br**/>

<**input** type = "submit" name = "submit" value = "Submit"/>

</**form**>

</**body**>

</**html**>

Code 14: addemail.html

<?php

$server\_name = "localhost";

$user\_name = "root";

$password = "";

$db\_name = "store";

**if**(!**empty**($\_POST['submit'])):

$connection = mysqli\_connect($server\_name,

$user\_name,

$password, $db\_name)

**or** **die**("Could not connect to the server");

$first\_name = $\_POST['first\_name'];

$last\_name = $\_POST['last\_name'];

$email = $\_POST['email'];

$sql = "INSERT INTO email\_list(first\_name,

last\_name,

email)

VALUES('**$first\_name**','**$last\_name**','**$email**')";

$result = mysqli\_query($connection, $sql)

**or** **die**("Query Denied");

**echo** nl2br("<h1>Confirmation Message</h1> **\n**");

**echo** nl2br("<p>Name: **$first\_name** **$last\_name**</p>");

**echo** nl2br("<p>Email: **$email**</p> **\n**");

mysqli\_close($connection);

**endif**;

?>

Code 15: addemail.php

<!doctype html>

<**htmL**>

<**head**>

<**title**> Send Email </**title**>

<**meta** charset = "UTF-8"/>

</**head**>

<**body**>

<**form** method = "post" action = "sendemail.php">

<**label** for = "subject">Subject</**label**><**br**/>

<**input** type = "text" name = "subject" id = "subject"/><**br**/>

<**label** for = "body\_of\_email"> Body of Email </**label**><**br**/>

<**textarea** name = "body\_of\_email" id = "body\_of\_email"

rows = "8" cols = "60"></**textarea**><**br**/>

<**input** type = "submit" id = "submit" name = "submit"

value = "Submit"/>

</**body**>

</**htmL**>

Code 16: sendemail.html

<?php

**if**($\_POST['submit']):

$from = "khan.photon@gmail.com";

$subject = $\_POST['subject'];

$body\_of\_email = $\_POST['body\_of\_email'];

$server\_name = "localhost";

$user\_name = "root";

$password = "";

$db\_name = "store";

$connection = mysqli\_connect($server\_name,

$user\_name,

$password,

$db\_name)

**or** **die**("Could connect to the server");

$query = "SELECT \* FROM email\_list";

$result = mysqli\_query($connection, $query)

**or** **die**("Query Denied");

**while**($row = mysqli\_fetch\_array($result)){

$to = $row['email'];

mail($to, $subject, $body\_of\_email, "From: **$from**");

}

mysqli\_close($connection);

**endif**;

?>

Code 17: sendemail.php

mysqli\_fetch\_array($result)

This function stores a row of data in an array.

A while loop repeats code while a condition is met. $row is interpreted as true since it isn’t set to 0 or false. When there is no more data available, mysqli\_fetch\_array($result) return false. Anything other than 0 or False is always interpreted as true.

### Removing data using DELETE and WHERE

A where clause narrows down a query to focus on specific rows of data. A where clause in a DELETE statement let us pinpoint the row we want to remove.

DELETE FROM email\_list

WHERE email = “khan.photon@gmail.com”

email = Name of the table column

[khan.photon@gmail.com](mailto:khan.photon@gmail.com) = Check whether this exists in the database.

<!doctype html>

<**html**>

<**head**>

<**title**> Remove Email </**title**>

<**meta** charset = "UTF-8"/>

</**head**>

<**body**>

<**p**> Enter Email Address to Remove </**p**><**br**/>

<**form** method = "post" action = "removeemail.php">

<**label** for = "email">Email</**label**><**br**/>

<**input** type = "email" name = "email" id = "email"/><**br**/>

<**input** type = "submit" value = "Submit" name = "submit"/>

</**form**>

</**body**>

<**html**>

Code 18: removeemail.html

<?php

$server\_name = "localhost";

$user\_name = "root";

$password = "";

$db\_name = "store";

**if**(!**empty**($\_POST)):

$email = $\_POST['email'];

$connection = mysqli\_connect($server\_name,

$user\_name,

$password,

$db\_name)

**or** **die**("Could not connect to the server");

$query = "DELETE FROM email\_list where email = '**$email**'";

mysqli\_query($connection, $query) **or**

**die**("Query Denied");

**echo** nl2br("**$email** has been successfully removed**\n**");

mysqli\_close($connection);

**endif**;

?>

Code 19: removeemail.php