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Md5 Password hash :

Md5 password hash is the most secure password hash in php.

The md5() function calculates the MD5 hash of a string.

The md5() function uses the RSA Data Security, Inc. MD5 Message-Digest Algorithm.

2 arguments : mds(string, raw);

- Raw means true, false (optioal)–
- TRUE - Raw 16 character binary format
- FALSE - Default. 32 character hex number

Example :

```
<?php

if (isset($_POST['user_password']) && !empty($_POST['user_password'])) {
    $user_password = md5($_POST['user_password']);
    $filename = 'hash.txt';
    $handle = fopen($filename, 'r');
    $file_password = fread($handle, filesize($filename));
    if ($user_password == $file_password) {
        echo 'Password is Okay!';
    } else {
        echo 'Password wrong!';
    }
} else {
    echo "Please enter password!";
}

?>

<form action="index.php" method="POST">
    Password : <input type="password" name="user_password">
    <input type="submit" name="submit">
</form>
```

Mail() in PHP with localhost :

```
<?php

ini_set("SMTP", "ssl://smtp.gmail.com");
ini_set("smtp_port", "587");
ini_set('sendmail_from', 'mayurpurushvani1@gmail.com');

$to = 'mayurpurushvani@gmail.com';
$subject = 'This is test email';
$body = 'This is a test email' . "\n\n" . 'Hope you got it..!';
$headers = 'From: phpAcademy <someone@gmail.com>';

if (mail($to, $subject, $body, $headers)) {
    echo 'Email has been sent to ' . $to;
} else {
    echo 'There was an error while sending an email.';
}
?>
```

Main() in PHP with localhost with form :

```
<?php

if (isset($_POST['name']) && isset($_POST['email']) && isset($_POST['message'])) {
    $name = $_POST['name'];
    $email = $_POST['email'];
    $message = $_POST['message'];

    if (!empty($_POST['name']) && !empty($_POST['email']) && !empty($_POST['message'])) {

        if (strlen($name) > 25 || strlen($email) > 50 || strlen($message) > 1000) {
            echo 'Sorry! maxlength for some fields has been exceeded!';
        } else {
            ini_set("SMTP", "ssl://smtp.gmail.com");
            ini_set("smtp_port", "587");
            ini_set('sendmail_from', $email);

            $to = 'mayurpurushvani@gmail.com';
            $subject = 'This is test email';
            $body = 'This is a test email' . "\n\n" . 'Hope you got it.';

            $headers = 'From: ' . $email;

            if (@mail($to, $subject, $body, $headers)) {
                echo 'Thank you for contacting us. We will get back to you soon!';
            } else {
                echo 'There was an error while sending an email.';
            }
        }
    } else {
        echo 'All fields are mandatory!';
    }
}

?>

<form action="emailform.php" method="POST">
    Name : <input type="text" name="name"><br><br>
    Email : <input type="email" name="email"><br><br>
    Message : <br> <textarea name="message" rows="6" cols="30"></textarea><br><br>
    <input type="submit" name="Submit">
</form>
```

Get the data from xml file Example :

Example.xml :

```
<producers>
  <producer>
    <name>Mayur</name>
    <age>22</age>
    <show>
      <showname>A show</showname>
      <showdate>12th jauary 2021</showdate>
    </show>
  </producer>

  <producer>
    <name>Lata</name>
    <age>40</age>
    <show>
      <showname>A show</showname>
      <showdate>13th jauary 2021</showdate>
    </show>
  </producer>

  <producer>
    <name>varsha</name>
    <age>26</age>
    <show>
      <showname>A show</showname>
      <showdate>14th jauary 2021</showdate>
    </show>
  </producer>
</producers>
```

Index.php :

```
<?php

$xml = simplexml_load_file('example.xml');

foreach ($xml->producer as $producer) {
    echo $producer->name . ' (' . $producer->age . ')<br>';
    foreach ($producer->show as $show) {
        echo $show->showname . ' on ' . $show->showdate.'<br>';
    }
}

?>
```