

Password Recovery / Reset in PHP & MYSQL

1. Create a Temporary Token Table

We need to create temporary token table, run the following query.

```
CREATE TABLE `password_reset_temp` (  
    `email` varchar(250) NOT NULL,  
    `key` varchar(250) NOT NULL,  
    `expDate` datetime NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

I have also attached sql file of this table in the download file of this tutorial.

2. Create a Database Connection

Create a database connection file with name **db.php** and add the following script in it, don't forget to change your database credentials in this file.

```
$con = mysqli_connect("localhost","root","","register");  
  
if (mysqli_connect_errno()){  
    echo "Failed to connect to MySQL: " . mysqli_connect_error();  
    die();  
}  
  
date_default_timezone_set('Africa/Lagos');  
  
$error="";
```

We have also define the date timezone, you can set it as per your location. This helps to store data in the timezone of your location.

3. Create an Index File (Send Email)

Now create an *index.php* file that will take email input and send an email to the user if user is found in the users table. users table is available in the login and registration script, we are using the same table.

Add the following script in **index.php** file.

```
<?php

include('db.php');

if(isset($_POST["email"]) && (!empty($_POST["email"]))) {

$email = $_POST["email"];

$email = filter_var($email, FILTER_SANITIZE_EMAIL);

$email = filter_var($email, FILTER_VALIDATE_EMAIL);

if (!$email) {

    $error .="<p>Invalid email address please type a valid email address!</p>";

} else {

    $sel_query = "SELECT * FROM `users` WHERE email='".$email."'";

    $results = mysqli_query($con,$sel_query);

    $row = mysqli_num_rows($results);

    if ($row==""){

        $error .=" <p>No user is registered with this email address!</p>";

    }

}
```

```

}

if($error!=""){
echo "<div class='error'>".$error."</div>
<br /><a href='javascript:history.go(-1)''>Go Back</a>";
}else{
$expFormat = mktime(
date("H"), date("i"), date("s"), date("m") ,date("d")+1, date("Y")
);
$expDate = date("Y-m-d H:i:s",$expFormat);
$key = md5(2418*2+$email);
$addKey = substr(md5(uniqid(rand(),1)),3,10);
$key = $key . $addKey;

// Insert Temp Table
mysqli_query($con,
"INSERT INTO `password_reset_temp` (`email`, `key`, `expDate`)
VALUES ('".$email."', '".$key."', '".$expDate."');");

$output='<p>Dear user,</p>';
$output.='<p>Please click on the following link to reset your
password.</p>';

```

```
$output.='<p>-----  
----</p>';  
  
$output.='<p><a href="https://www.everchristy.com/forgot-  
password/reset-password.php?  
  
key='.$key.'&email='.$email.'&action=reset" target="_blank">  
  
https://www.everchristy.com/forgot-password/reset-password.php  
  
&key='.$key.'&email='.$email.'&action=reset</a></p>';  
  
$output.='<p>-----  
----</p>';  
  
$output.='<p>Please be sure to copy the entire link into your browser.  
  
The link will expire after 1 day for security reason.</p>';  
  
$output.='<p>If you did not request this forgotten password email, no  
action  
  
is needed, your password will not be reset. However, you may want to  
log into  
  
your account and change your security password as someone may have  
guessed it.</p>';  
  
$output.='<p>Thanks,</p>';  
  
$output.='<p>Everchristy Team</p>';  
  
$body = $output;  
  
$subject = "Password Recovery - Everchristy.com";  
  
$email_to = $email;  
  
$fromserver = "noreply@yourwebsite.com";
```

```
require("PHPMailer/PHPMailerAutoload.php");

$mail = new PHPMailer();

$mail->IsSMTP();

$mail->Host = "mail.yourwebsite.com"; // Enter your host here

$mail->SMTPAuth = true;

$mail->Username = "noreply@yourwebsite.com"; // Enter your email here

$mail->Password = "password"; //Enter your password here

$mail->Port = 25;

$mail->IsHTML(true);

$mail->From = "noreply@yourwebsite.com";

$mail->FromName = "Everchristy";

$mail->Sender = $fromserver; // indicates ReturnPath header

$mail->Subject = $subject;

$mail->Body = $body;

$mail->AddAddress($email_to);

if(!$mail->Send()){

echo "Mailer Error: " . $mail->ErrorInfo;

}else{

echo "<div class='error'>

<p>An email has been sent to you with instructions on how to reset
your password.</p>
```

```

</div><br /><br /><br />";

    }

}

}else{

?>

<form method="post" action="" name="reset"><br /><br />

<label><strong>Enter Your Email Address:</strong></label><br /><br />

<input type="email" name="email" placeholder="username@email.com" />

<br /><br />

<input type="submit" value="Reset Password"/>

</form>

<p>&nbsp;</p>

<p>&nbsp;</p>

<p>&nbsp;</p>

<?php } ?>

```

This file is simply checking if email is available in database then generate a random token, save that token in temporary table and send an email to the user with link. Once user click on the link user will be able to set new password.

Please note that I have been using <https://www.everchristys.com/forgot-password/> directory URL in the above script, it should be replace with your project URL where you will upload files of this tutorial.

4. Create a Reset Password File

Now create a reset password file, this will check that is token available in database against the user email and it should be less then one day old, once token expired user will need to regenerate token.

So if token is found user can simply set new password, we will update user password and also delete the token from temporary token table.

Insert the following script in **reset-password.php** file.

```
<?php

include('db.php');

if (isset($_GET["key"]) && isset($_GET["email"]) &&
isset($_GET["action"]))

&& ($_GET["action"]=="reset") && !isset($_POST["action"])){

    $key = $_GET["key"];

    $email = $_GET["email"];

    $curDate = date("Y-m-d H:i:s");

    $query = mysqli_query($con,

        "SELECT * FROM `password_reset_temp` WHERE `key`='".$key.'" and
`email`='".$email.'"");

    );

    $row = mysqli_num_rows($query);

    if ($row==""){

        $error .= '<h2>Invalid Link</h2>

<p>The link is invalid/expired. Either you did not copy the correct
link

from the email, or you have already used the key in which case it is
```

```
deactivated.</p>

<p><a href="https://www.everchristy.com/forgot-password/index.php">
Click here</a> to reset password.</p>';

    }else{

$row = mysqli_fetch_assoc($query);

$expDate = $row['expDate'];

if ($expDate >= $curDate){

?>

<br />

<form method="post" action="" name="update">

<input type="hidden" name="action" value="update" />

<br /><br />

<label><strong>Enter New Password:</strong></label><br />

<input type="password" name="pass1" maxlength="15" required />

<br /><br />

<label><strong>Re-Enter New Password:</strong></label><br />

<input type="password" name="pass2" maxlength="15" required/>

<br /><br />

<input type="hidden" name="email" value="<?php echo $email;?>"/>

<input type="submit" value="Reset Password" />
```



```
</form>

<?php
}else{
$error .= "<h2>Link Expired</h2>

<p>The link is expired. You are trying to use the expired link which
as valid only 24 hours (1 days after request).<br /><br /></p>";

    }

}

if($error!=""){

    echo "<div class='error'>".$error."</div><br />";

}

} // isset email key validate end

if(isset($_POST["email"]) && isset($_POST["action"]) &&
($_POST["action"]=="update")){

$error="";

$pass1 = mysqli_real_escape_string($con,$_POST["pass1"]);
$pass2 = mysqli_real_escape_string($con,$_POST["pass2"]);
$email = $_POST["email"];

```

```

$curDate = date("Y-m-d H:i:s");

if ($pass1!=$pass2){

$error.= "<p>Password do not match, both password should be same.<br
/><br /></p>";

}

if($error!=""){

echo "<div class='error'>".$error."</div><br />";

}else{

$pass1 = md5($pass1);

mysqli_query($con,

"UPDATE `users` SET `password`='".$pass1."', `trn_date`='".$curDate.'"

WHERE `email`='".$email.'";

);

mysqli_query($con,"DELETE FROM `password_reset_temp` WHERE
`email`='".$email.'");

echo '<div class="error"><p>Congratulations! Your password has been
updated successfully.</p>

<p><a href="https://www.everchristy.com/forgot-password/login.php">
Click here</a> to Login.</p></div><br />';

}

```

```
}
```

```
?>
```

Please note that i have wrote <https://www.allphptricks.com/forgot-password/> in these both files, make sure that you also update it as per your web directory URL. You will write your directory where you will set up user registration and login script.

5. Create a CSS File

Create a file with name **style.css** and keep it in folder css. Paste the following code in it.

```
.error p {  
  
    color:#FF0000;  
  
    font-size:20px;  
  
    font-weight:bold;  
  
    margin:50px;  
  
}
```