Exidenty Com samborski Advanced SQL Injection

Patch SQL Injection



Patch the SQL Injection!

Patch the SQL Injection vulnerability in the code below

```
2 v if( isset( $_POST[ 'Submit' ] ) ) {
     $id = $ POST[ 'id' ];
     $con = mysqli_connect("localhost", "my_user", "my_password", "my_db");
     $id = mysqli_real_escape_string($con, $id);
     $query = "SELECT first_name, last_name FROM users WHERE user_id = $id;";
     $result = mysqli_query($con, $query) or die( '' . mysqli_error($con) . '' );
     while( $row = mysqli_fetch_assoc( $result ) ) {
         $first = $row["first name"];
         $last = $row["last name"];
         echo "ID: {$id}<br />First name: {$first}<br />Surname: {$last}";
31 $result = mysqli query($con, $query ) or die( '' . ((is object($con)) ? mysqli error($con) : (($ mysqli res = mysqli connect error()) ? $
     __mysqli_res : false)) . '' );
32 $number_of_rows = mysqli_fetch_row( $result )[0];
33 mysqli_close($con);
```



Patch the SQL Injection! - Solution

- In this example preventing SQL Injection is straightforward
- We have to only allow an integer in the query

```
( isset( $_POST[ 'Submit' ] ) ) {
   $id = $ POST[ 'id' ];
   $con = mysqli_connect("localhost","my_user","my_password","my_db");
   $id = mysqli real escape string($con, $id); // this is not enough, as we are not inside a string
   $id = $id*1; // only allow numbers, remove everything else.
   $query = "SELECT first name, last name FROM users WHERE user id = $id;";
   $result = mysqli query($con, $query) or die( '' . mysqli error($con) . '' );
    while( $row = mysqli fetch assoc( $result ) ) {
       $first = $row["first name"];
       $last = $row["last name"];
       echo """""""""
$query = "SELECT COUNT(*) FROM users;";
$result = mysqli_query($con, $query ) or die( '' . ((is_object($con)) ? mysqli_error($con) : (($__mysqli_res = mysqli_connect_error()) ? $
   mysqli res : false)) . '' );
$number_of_rows = mysqli_fetch_row( $result )[0];
mysqli close($con);
```

Download Code





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