Week7

Index.php

|  |
| --- |
| <!DOCTYPE html> |
|  | <head><title>Krisha Joshi MD5 Cracker</title></head> |
|  | <body> |
|  | <h1>MD5 cracker</h1> |
|  | <p>This application takes an MD5 hash |
|  | of a four digit pin and check all 10,000 possible four digit pins to determine the pin</p> |
|  | <pre> |
|  | Debug Output: |
|  | <?php |
|  | $goodtext = "Not found"; |
|  | // If there is no parameter, this code is all skipped |
|  | if ( isset($\_GET['md5']) ) { |
|  | $time\_pre = microtime(true); |
|  | $md5 = $\_GET['md5']; |
|  | // This is our alphabet |
|  | $txt = "0123456789"; |
|  | $show = 15; |
|  | // Outer loop go go through the alphabet for the |
|  | // first position in our "possible" pre-hash |
|  | // text |
|  | for($i=0; $i<strlen($txt); $i++ ) { |
|  | $ch1 = $txt[$i]; // The first of two characters |
|  | // Our inner loop Note the use of new variables |
|  | // $j and $ch2 |
|  | for($j=0; $j<strlen($txt); $j++ ) { |
|  | $ch2 = $txt[$j]; // Our second character |
|  | for($k=0; $k<strlen($txt); $k++ ) { |
|  | $ch3 = $txt[$k]; |
|  | for($l=0; $l<strlen($txt); $l++){ |
|  | $ch4 = $txt[$l]; |
|  | // Concatenate the two characters together to |
|  | // form the "possible" pre-hash text |
|  | $try = $ch1.$ch2.$ch3.$ch4; |
|  | // Run the hash and then check to see if we match |
|  | $check = hash('md5', $try); |
|  | if ( $check == $md5 ) { |
|  | $goodtext = $try; |
|  | break; // Exit the inner loop |
|  | } |
|  | // Debug output until $show hits 0 |
|  | if ( $show > 0 ) { |
|  | print "$check $try\n"; |
|  | $show = $show - 1; |
|  | } |
|  | if($goodtext == $try){ |
|  | break; |
|  | } |
|  | } |
|  | if($goodtext == $try){ |
|  | break; |
|  | } |
|  | } |
|  | if($goodtext == $try) { |
|  | break; |
|  | } |
|  | } |
|  | if($goodtext == $try){ |
|  | break; |
|  | } |
|  | } |
|  | // Compute ellapsed time |
|  | $time\_post = microtime(true); |
|  | print "Ellapsed time: "; |
|  | print $time\_post-$time\_pre; |
|  | print "\n"; |
|  | } |
|  | ?> |
|  | </pre> |
|  | <!-- Use the very short syntax and call htmlentities() --> |
|  | <p>Original Text: <?= htmlentities($goodtext); ?></p> |
|  | <form> |
|  | <input type="text" name="md5" size="60" /> |
|  | <input type="submit" value="Crack MD5"/> |
|  | </form> |
|  | <ul> |
|  | <li><a href="index.php">Reset</a></li> |
|  | <li><a href="md5.php">MD5 Encoder</a></li> |
|  | <li><a href="makecode.php">MD5 Code Maker</a></li> |
|  | <li><a |
|  | href="https://github.com/csev/wa4e/tree/master/code/crack" |
|  | target="\_blank">Source code for this application</a></li> |
|  | </ul> |
|  | </body> |
|  | </html> |

Makecode.php

|  |
| --- |
| <?php |
|  | $error = false; |
|  | $md5 = false; |
|  | $code = ""; |
|  | if ( isset($\_GET['code']) ) { |
|  | $code = $\_GET['code']; |
|  | if ( strlen($code) != 4 ) { |
|  | $error = "Input must be exactly four numbers"; |
|  | } else if ( $code[0] < "0" || $code[0] > "9" || |
|  | $code[1] < "0" || $code[1] > "9" || |
|  | $code[2] < "0" || $code[1] > "9" || |
|  | $code[3] < "0" || $code[1] > "9" ) { |
|  | $error = "Input must four lower numbers"; |
|  | } else { |
|  | $md5 = hash('md5', $code); |
|  | } |
|  | } |
|  | ?> |
|  | <!DOCTYPE html> |
|  | <head><title>Krisha Joshi PIN Code</title></head> |
|  | <body> |
|  | <h1>MD5 PIN Maker</h1> |
|  | <?php |
|  | if ( $error !== false ) { |
|  | print '<p style="color:red">'; |
|  | print htmlentities($error); |
|  | print "</p>\n"; |
|  | } |
|  | if ( $md5 !== false ) { |
|  | print "<p>MD5 value: ".htmlentities($md5)."</p>"; |
|  | } |
|  | ?> |
|  | <p>Please enter a four-leter key for encoding.</p> |
|  | <form> |
|  | <input type="text" name="code" value="<?= htmlentities($code) ?>"/> |
|  | <input type="submit" value="Compute MD5 for CODE"/> |
|  | </form> |
|  | <p><a href="makecode.php">Reset</a></p> |
|  | <p><a href="index.php">Back to Cracking</a></p> |
|  | </body> |
|  | </html>  Md5.php   |  | | --- | | <?php | |  | $md5 = "Not computed"; | |  | if ( isset($\_GET['encode']) ) { | |  | $md5 = hash('md5', $\_GET['encode']); | |  | } | |  | ?> | |  | <!DOCTYPE html> | |  | <head><title>Krisha Joshi MD5</title></head> | |  | <body> | |  | <h1>MD5 Maker</h1> | |  | <p>MD5: <?= htmlentities($md5); ?></p> | |  | <form> | |  | <input type="text" name="encode" size="40" /> | |  | <input type="submit" value="Compute MD5"/> | |  | </form> | |  | <p><a href="md5.php">Reset</a></p> | |  | <p><a href="index.php">Back to Cracking</a></p> | |  | </body> | |  | </html> | |