**TESTEOS, ALGORITMOS E INTERACCIONES - OLIMPÍADA NACIONAL DE ETP 2023 INFORMÁTICA**

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Funciones PHP

<?php

session\_start();

if (!isSet($\_COOKIE["theme"]))

$\_COOKIE["theme"] = "dark";

function GetDTHeight() {

return isset($\_COOKIE["dt\_height"]) ? $\_COOKIE["dt\_height"] : 0;

}

function GetDTRowHeight() {

return isset($\_COOKIE["dt\_row\_height"]) ? $\_COOKIE["dt\_row\_height"] : 42;

}

function SetDTHeight($id, $tableid) {

echo("<script type='text/javascript'>

window.addEventListener('load', function() {

var reload = !(document.cookie.split('dt\_height').length === 2);

window.onbeforeunload = function() {

try {

oDT = document.getElementById('" . $id . "');

oDT.getElementsByTagName('" . $tableid . "')[0].style.height = 'unset';

document.cookie = 'dt\_height=' + (

parseInt(getComputedStyle(oDT).height) - parseInt(getComputedStyle(oDT.getElementsByClassName('datatable\_hrow')[0]).height)

);

try {

var rows = oDT.getElementsByClassName('datatable\_drow');

var maxRow = parseInt(getComputedStyle(rows[0]).height);

document.cookie = 'dt\_row\_height=' + maxRow;

}

catch {

document.cookie = 'dt\_row\_height=' + 42;

}

}

catch {

document.cookie = 'dt\_height=' + (window.innerHeight - 330);

}

};

if (reload)

window.location.reload();

});

</script>");

}

function InSession() {

if (CheckSession()) {

header("Location: /" . (isset($\_SESSION["lastfile"]) ? $\_SESSION["lastfile"] : "buttons.php"));

return true;

}

return false;

}

function CheckSession() {

return isset($\_SESSION["started"]) and time() - $\_SESSION["started"] <= 21600 and isset($\_SESSION["user"]); // 21600 = six hours

}

function DeleteSession() {

session\_unset();

session\_destroy();

}

function LogInUser($user, $pass) {

$query = GetConn()->query("

SELECT \* FROM usuarios

WHERE legajo = '$user' OR DNI = '$user'

");

$error = mysqli\_num\_rows($query) <= 0; // error if no rows retrieved

if (!$error) {

$user = mysqli\_fetch\_row($query);

if (!password\_verify($pass, $user[2]))

$error = true;

else {

$\_SESSION["user"] = $user;

$\_SESSION["is\_area"] = false;

$\_SESSION["started"] = time();

header("location: /" . (isset($\_SESSION["lastfile"]) ? $\_SESSION["lastfile"] : "buttons.php"));

}

}

return $error;

}

function LogInArea($user, $pass, $ubi) {

$query = GetConn()->query("

SELECT \* FROM areas

WHERE codigo = '$user' OR nombre = '$user'

");

$error = mysqli\_num\_rows($query) <= 0; // error if no rows retrieved

if (!$error) {

$user = mysqli\_fetch\_row($query);

if (!password\_verify($pass, $user[1]))

$error = true;

else {

$\_SESSION["user"] = $user;

$\_SESSION["is\_area"] = true;

$\_SESSION["area\_ubi"] = $ubi;

$\_SESSION["started"] = time();

header("location: /" . (isset($\_SESSION["lastfile"]) ? $\_SESSION["lastfile"] : "buttons.php"));

}

}

return $error;

}

function LogOut() {

unset($\_SESSION["user"]);

header("Location: /\_index.php");

}

function CheckPass($pass, &$errorStr) {

$errorStr = "";

if (strlen($pass) < 8)

$errorStr = "La contraseña debe contener al menos 8 caracteres";

if (!preg\_match('/[a-z]/', $pass))

$errorStr .= $errorStr != "" ? ", una minúscula" : "La contraseña debe contener al menos una minúscula";

if (!preg\_match('/[A-Z]/', $pass))

$errorStr .= $errorStr != "" ? ", una mayúsucula" : "La contraseña debe contener al menos una mayúsucula";

if (!preg\_match('/\d/', $pass))

$errorStr .= $errorStr != "" ? ", un número" : "La contraseña debe contener al menos un número";

if ($errorStr != "") {

if (($pos = strrpos($errorStr, ", ")) > 0)

$errorStr = substr\_replace($errorStr, " y ", $pos, 2);

}

return $errorStr != "";

}

function GetConn() {

static $conn;

if (!isset($conn) or $conn->connect\_error) {

$conn = new mysqli(

$\_SERVER["SQL\_SOURCE"],

$\_SERVER["SQL\_USER"],

$\_SERVER["SQL\_PASS"],

$\_SERVER["HO\_SQL\_DATABASE"],

$\_SERVER["SQL\_PORT"]

);

if ($conn->connect\_error)

die("Connection failed" . $conn->connect\_error);

}

return $conn;

}

function GetTable($table, $offset = 0, $limit = 10, $searchfor = "") {

$search = "";

if ($searchfor != "") {

$search = " WHERE ";

$query = GetConn()->query("

SELECT COLUMN\_NAME FROM INFORMATION\_SCHEMA.COLUMNS

WHERE TABLE\_NAME = '$table';

");

foreach ($query->fetch\_all() as $column) {

$search .= "`$column[0]`" . " LIKE '%" . $searchfor . "%' OR ";

}

$search = substr($search, 0, -4);

}

$query = GetConn()->query("

SELECT \* FROM $table

$search

LIMIT $offset, $limit

");

return $query->fetch\_all(MYSQLI\_ASSOC);

}

function InsertInTable($table, $columns, $values) {

return GetConn()->query("

INSERT INTO $table($columns)

VALUES ($values)

");

}

function UpdateInTable($table, $column, $value, $condition) {

$value = $value == "NULL" ? $value : "'$value'";

return GetConn()->query("

UPDATE `$table`

SET `$column` = $value

WHERE $condition

");

}

function DeleteInTable($table, $condition) {

return GetConn()->query("

DELETE FROM `$table`

WHERE $condition

");

}

function TableRowsCount($table) {

$query = GetConn()->query("SELECT COUNT(\*) FROM $table");

return mysqli\_fetch\_array($query)[0];

}

function GetTableRow($table, $condition) {

$query = GetConn()->query("

SELECT \* FROM $table

WHERE $condition

");

return $query->fetch\_all(MYSQLI\_ASSOC);

}

function GetColumnsType($table) {

$query = GetConn()->query("

SELECT DATA\_TYPE FROM INFORMATION\_SCHEMA.COLUMNS

WHERE TABLE\_NAME = '$table';

");

return $query->fetch\_all(MYSQLI\_ASSOC);

}

?>