

TESTEOS, ALGORITMOS E INTERACCIONES - OLIMPIADA 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.getElementsByTagName('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 mayúscula" : "La contraseña debe contener al
menos una mayúscula";
    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);
}

?>
```