

بسم الله الرحمن الرحيم

Republic of Yemen

Ministry of Education and Scientific Research

University of Amran

College of Engineering and Information
Technology



الجمهورية اليمنية

وزارة التربية والتعليم والبحث العلمي

جامعة عمران

كلية الهندسة وتكنولوجيا المعلومات

عنوان البحث

- ١- تنفيذ صفحة تسجيل دخول ٢- صفحة إنشاء حساب ٣- صفحة رئيسية ٤- ربط جميع
الصفحات بقاعدة البيانات ٥- تخزين كلمات المرور باستخدام hash وليس كنص عادي

ياسين عبد الرقيب علي واصل

yaseenwasel

إعداد الطالب

إشراف الدكتور / محسن النقيب

إعداد قاعدة بيانات ونظام مصادقة باستخدام MariaDB

```
(kali㉿yaseenwassel)-[~] $ sudo mariadb -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 41
Server version: 11.8.5-MariaDB-4 from Debian -- Please help get to 10k stars at https://github.com/MariaDB/Se
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE IF NOT EXISTS auth_db;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> CREATE USER IF NOT EXISTS 'php_user'@'localhost' IDENTIFIED BY 'SecurePass123!';
Query OK, 0 rows affected (0.005 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON auth_db.* TO 'php_user'@'localhost';
Query OK, 0 rows affected (0.003 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| auth_db  |
| dvwa     |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
```

```
+-----+
6 rows in set (0.005 sec)

MariaDB [(none)]> SELECT User, Host FROM mysql.user;EXIT;
+-----+-----+
| User      | Host       |
+-----+-----+
| userDVWA  | 127.0.0.1 |
| dvwauser  | localhost  |
| mariadb.sys | localhost |
| mysql     | localhost  |
| php_user   | localhost  |
| root      | localhost  |
+-----+-----+
6 rows in set (0.002 sec)

Bye

(kali㉿yaseenwassel)-[~] $
```

١-إنشاء صفحة config.php

kali@yaseenwasei: /var/www/html/auth_system

```
File Actions Edit View Help
GNU nano 8.3 config.php
?php
session_start();

define('DB_HOST', 'localhost');
define('DB_NAME', 'auth_db');
define('DB_USER', 'php_user');
define('DB_PASS', 'SecurePass123');

$dsn = "mysql:host=" . DB_HOST . ";dbname=" . DB_NAME . ";charset=utf8mb4";
$options = [
    PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION,
    PDO::ATTR_DEFAULT_FETCH_MODE => PDO::FETCH_ASSOC,
    PDO::ATTR_EMULATE_PREPARES => false,
];
try {
    $pdo = new PDO($dsn, DB_USER, DB_PASS, $options);
} catch (PDOException $e) {
    die("X فشل اتصال: " . $e->getMessage());
}

$sql = "CREATE TABLE IF NOT EXISTS users (
    id INT AUTO_INCREMENT PRIMARY KEY,
    username VARCHAR(50) UNIQUE NOT NULL,
    email VARCHAR(100) UNIQUE NOT NULL,
    password_hash VARCHAR(255) NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    last_login TIMESTAMP NULL,
    is_active BOOLEAN DEFAULT TRUE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4";
$pdo->exec($sql);
?>
```

٢- إنشاء صفحة index.php

kali@yaseenwasei: /var/www/html/auth_system

```
File Actions Edit View Help
GNU nano 8.3 index.php
?php
session_start();

if (isset($_SESSION['user_id'])) {
    header('Location: dashboard.php');
} else {
    header('Location: login.php');
}
exit();
?>
```

٣- إنشاء صفحة Login.php

The screenshot shows a terminal window titled "kali@yaseenwase: /var/www/html/auth_system". The file being edited is "login.php". The code is a PHP script for user authentication. It checks if a user ID is set in the session, and if so, redirects to dashboard.php. It then handles a POST request for logging in. It checks if both username and password are provided. If not, it sets an error message. Otherwise, it tries to query the database for the user. If successful, it verifies the password using password_verify. It then updates the user's last login time in the database and sets session variables for user ID, username, email, and login time. Finally, it redirects to dashboard.php. If any step fails, it sets an error message indicating either invalid credentials or a database error.

```
GNU nano 8.3          login.php
?php
require_once 'config.php';

if (isset($_SESSION['user_id'])) {
    header('Location: dashboard.php');
    exit();
}

$error = '';

if ($_SERVER['REQUEST_METHOD'] = 'POST') {
    $username = trim($_POST['username']);
    $password = $_POST['password'];

    if (empty($username) || empty($password)) {
        $error = 'يرجى إدخال جميع الحقول';
    } else {
        try {
            $stmt = $pdo->prepare("SELECT id, username, email, password_hash FROM users WHERE username = ? AND is_active = 1");
            $stmt->execute([$username]);
            $user = $stmt->fetch();

            if ($user && password_verify($password, $user['password_hash'])) {
                $_SESSION['user_id'] = $user['id'];
                $_SESSION['username'] = $user['username'];
                $_SESSION['email'] = $user['email'];
                $_SESSION['login_time'] = time();

                $updateStmt = $pdo->prepare("UPDATE users SET last_login = NOW() WHERE id = ?");
                $updateStmt->execute([$user['id']]);
            }
        } catch (PDOException $e) {
            $error = 'حدث خطأ في النظام';
        }
    }
}
```

٤- إنشاء صفحة register.php

The screenshot shows a terminal window titled "kali@yaseenwasel: /var/www/html/auth_system". The file being edited is "register.php". The code is written in PHP and handles user registration. It includes validation for required fields (username, email, password, confirmation), checks for valid email format, matches between password and confirmation, and password length (minimum 8 characters). It also performs a database query to check if the combination of username and email already exists. If unique, it inserts the new user into the "users" table. Error messages are displayed in Arabic. The terminal interface includes a menu bar with File, Actions, Edit, View, Help, and a status bar showing the date and time.

```
GNU nano 8.3 register.php

<?php
require_once 'config.php';

if (isset($_SESSION['user_id'])) {
    header('Location: dashboard.php');
    exit();
}

$error = '';
$success = '';

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $username = trim($_POST['username']);
    $email = trim($_POST['email']);
    $password = $_POST['password'];
    $confirm_password = $_POST['confirm_password'];

    if (empty($username) || empty($email) || empty($password)) {
        $error = 'جميع الحقول مطلوبة!';
    } elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
        $error = 'البريد الإلكتروني غير صالح';
    } elseif ($password != $confirm_password) {
        $error = 'كلمات المرور غير متطابقة';
    } elseif (strlen($password) < 8) {
        $error = 'كلمة المرور يجب أن تكون 8 أحرف على الأقل';
    } else {
        try {
            $stmt = $pdo->prepare("SELECT id FROM users WHERE username = ? OR email = ?");
            $stmt->execute([$username, $email]);

            if ($stmt->rowCount() > 0) {
                $error = 'اسم المستخدم أو البريد الإلكتروني مستخدم مسبقاً';
            } else {
                $password_hash = password_hash($password, PASSWORD_DEFAULT);
                $stmt = $pdo->prepare("INSERT INTO users (username, email, password_hash) VALUES (?, ?, ?)");
                $stmt->execute([$username, $email, $password_hash]);
                $success = 'تم إنشاء الحساب بنجاح!';
            }
        } catch (PDOException $e) {
    }
}
```

٥- إنشاء صفحة dashboard.php

164 kali@yaseenwasel: /var/www/html/auth_system

File Actions Edit View Help

GNU nano 8.3 dashboard.php

```
?php
require_once 'config.php';

if (!isset($_SESSION['user_id'])) {
    header('Location: login.php');
    exit();
}

$session_duration = time() - $_SESSION['login_time'];
$hours = floor($session_duration / 3600);
$minutes = floor(($session_duration % 3600) / 60);
$seconds = $session_duration % 60;
?>
<!DOCTYPE html>
<html lang="ar" dir="rtl">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>لوحة التحكم</title>
</head>
<body>
    <h1>مرحبا ، <?php echo htmlspecialchars($_SESSION['username']); ?>!</h1>
    <p>البريد : <?php echo htmlspecialchars($_SESSION['email']); ?></p>
    <p>مدة الجلسة : <?php echo "$hours:$minutes:$seconds"; ?></p>
    <p><a href="logout.php">تسجيل الخروج</a></p>
</body>
</html>
```

٦- إنشاء صفحة Logout.php

md64 kali@yaseenwasel: /var/www/html/auth_system

File Actions Edit View Help

GNU nano 8.3 logout.php

```
?php
session_start();
session_destroy();
header('Location: login.php');
exit();
?>
```

٧-إنشاء صفحة db_test.php

```
kali@yaseenwasel: /var/www/html/auth_system
File Actions Edit View Help
GNU nano 8.3                               db_test.php
<?php
session_start();
define('DB_HOST', 'localhost');
define('DB_NAME', 'auth_db');
define('DB_USER', 'php_user');
define('DB_PASS', 'SecurePass123!');

$dsn = "mysql:host=" . DB_HOST . ";dbname=" . DB_NAME . ";charset=utf8mb4";
$options = [
    PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION,
    PDO::ATTR_DEFAULT_FETCH_MODE => PDO::FETCH_ASSOC,
    PDO::ATTR_EMULATE_PREPARES => false,
];
try {
    $pdo = new PDO($dsn, DB_USER, DB_PASS, $options);
    echo "✓ قاعدة البيانات تعمل!  
";

    // عدد المستخدمين
    $stmt = $pdo->query("SELECT COUNT(*) as count FROM users");
    $result = $stmt->fetch();
    echo "عدد المستخدمين: " . $result['count'] . "  
";

    // عرض المستخدمين
    $stmt = $pdo->query("SELECT username, email FROM users");
    $users = $stmt->fetchAll();
    if (count($users) > 0) {
        echo "المستخدمين:  
";
        foreach ($users as $user) {
            echo "- " . $user['username'] . " (" . $user['email'] . ")  
";
        }
    }
} catch (PDOException $e) {
    echo "✗ خطأ: " . $e->getMessage();
}
?>
```

التأكد من إنشاء الصفحات

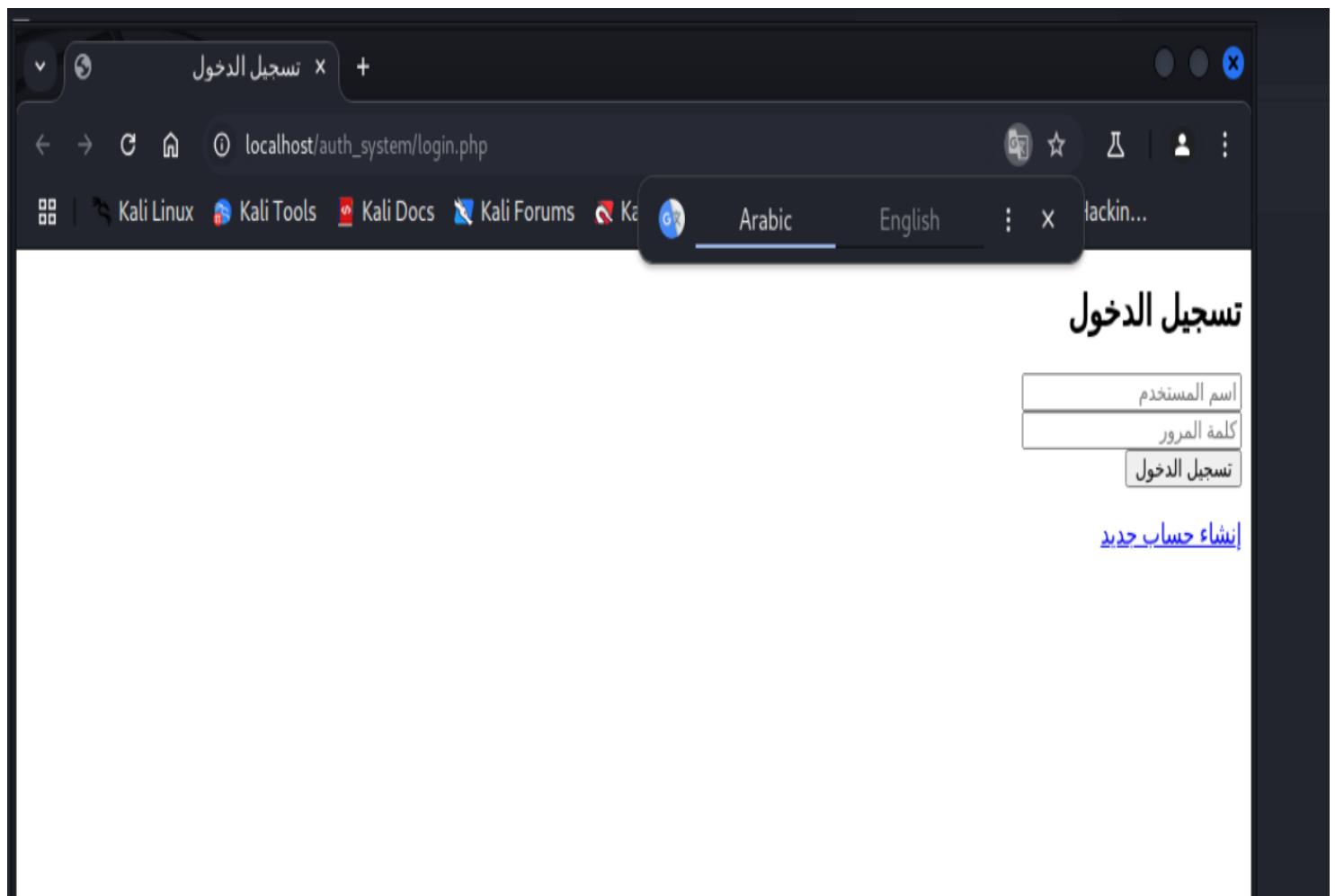
```
(kali㉿yaseenwasel)-[~]
$ ls -la /var/www/html/auth_system/
total 32
drwxr-xr-x 2 www-data www-data 4096 Feb  5 09:11 .
drwxr-xr-x 7 kali      kali     4096 Feb  5 09:11 ..
-rw xr-xr-x 1 www-data www-data  929 Feb  5 09:11 config.php
-rw xr-xr-x 1 www-data www-data  824 Feb  5 09:11 dashboard.php
-rw xr-xr-x 1 www-data www-data  155 Feb  5 09:11 index.php
-rw xr-xr-x 1 www-data www-data 2130 Feb  5 09:11 login.php
-rw xr-xr-x 1 www-data www-data   84 Feb  5 09:11 logout.php
-rw xr-xr-x 1 www-data www-data 2705 Feb  5 09:11 register.php
```

التأكد من قواعد البيانات بالامر

```
yuseen  yuseen@test.com 2026-02-05 09:19:46
3 user1 user1@example.com 2026-02-05 09:19:46

[kali㉿yaseenwassel)-[~]
$ curl http://localhost/auth_system/db_test.php
ر: اقاعةة البيانات تعلم 3 المستخدمين<br> عدد المستخدمين: admin (admin@system.com)<br> yaseen (yaseen@test.com)<br> user1 (user1@e
[kali㉿yaseenwassel)-[~]
$
```

الدخول إلى قاعدة البيانات من المتصفح



ثم سجل الدخول باسم المستخدم ودخل إلى قاعدة البيانات

