
Hands-on lab report

Annex 2 – Sample code

Web page with simple form.

Index.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Notes app</title>
```

```
  <link rel="stylesheet" href="styles.css">
```

```
</head>
```

```
<body>
```

```
  <h1 class="title">Welcome, please sign in</h1>
```

```
  <form action="main2.php" method="post" class="center-form">
```

```
    <label for="username">Username</label>
```

```
    <input type="text" name="username" placeholder="username">
```

```
    <br>
```

```
    <label for="password">Password</label>
```

```
    <input type="password" name="password" placeholder="password">
```

```
  <br>
```

```
<input type="submit" class="login" name="submit" value="login">
```

```
</form>
```

```
</body>
```

```
</html>
```

```
*****
```

```
logout.php
```

```
*****
```

```
<?php
```

```
session_start();
```

```
//get rid of sessionID
```

```
session_destroy();
```

```
header('Location: index.html');
```

```
?>
```

```
*****
```

```
main.php (unsafe)
```

```
*****
```

```
<?php
```

```
function validLogin($usr, $pass) {
```

```
    //insert code for authentication validation
```

```
    //to see if user exists on DB
```

```
    return true;
```

```
}
```

```
$username = $_POST['username'];
$password = $_POST['password'];

if (validLogin($username, $password)) {
    //start the session
    session_start();

    //register the session variables
    $_SESSION['username'] = $username;
}
?>
```

```
<title>Notes app</title>
<ul>
    <li><a href="main.php">Home</a></li>
    <li><a href="notes.php">My notes</a></li>
    <li><a href="logout.php"> Logout</a></li>
</ul>
```

Main2.php (safer)

```
<?php
```

```
function validLogin($usr, $pass) {
    //insert code for authentication validation
    //to see if user exists on DB
    return true;
}
```

```
/*
```

lifetime: how long the session should be valid

path: where is the session valid within domain

domain: domain name

secure: for only to be accessed via secure connections

httpOnly: cannot be accessed by JS

```
*/
```

```
function startSession($lifetime, $path, $domain, $secure, $httpOnly) {
```

```
    session_set_cookie_params($lifetime, $path, $domain, $secure, $httpOnly);
```

```
    session_start();
```

```
}
```

```
$username = $_POST['username'];
```

```
$password = $_POST['password'];
```

```
if (validLogin($username, $password)) {
```

```
    //start the session
```

```
    startSession(0, '/', 'localhost', false, true);
```

```
    //register the session variables
```

```
    $_SESSION['username'] = $username;
```

```
}
```

```
?>
```

```
<title>Notes app</title>
```

```
<ul>
```

```
    <li><a href="main2.php">Home</a></li>
```

```
    <li><a href="notes.php">My notes</a></li>
```

```
    <li><a href="logout.php"> Logout</a></li>
```

Notes.php

<?php

```
$data = array(
    "joseph" => array('8:05 call mom', '8:10 email Martha'),
    "james" => array('password ebay: james123', 'password gmail: qweasd'),
    "jojo" => array('account pin: 2202', 'bankcard: 1252233')
);

session_start();

if (isset($_SESSION['username']) && array_key_exists($_SESSION['username'], $data)) {
    $user = $_SESSION['username'];

    echo '<ul>';
    echo '<li><a href="main.php">Home</a></li>';
    echo '<li><a href="notes.php">My notes</a></li>';
    echo ' <li><a href="logout.php"> Logout</a></li>';
    echo '</ul>';

    foreach($data[$user] as $note) {
        echo $note . "<br />";
    }
} else {
    echo "<h1>Not logged in</h1>";
}
```

?>

<title>Notes app</title>

Styles.css

```
body {  
    background-color: #000839;  
    text-align: center;  
    font-family: "Arial";  
}
```

```
.title {  
    color: #FFF;  
    margin-top: 50px;  
    margin-bottom: 50px;  
}
```

```
.center-form {  
    padding-top: 30px;  
    margin: auto;  
    height: 500px;  
    width: 500px;  
    background-color: #faf4f4;  
}
```

```
form label {  
    position: relative;  
    top: 30%;  
    font-size: 30px;
```

```
}
```

```
form input {  
    position: relative;  
    top: 30%;  
}
```

```
.login {  
    margin-top: 15px;  
}
```