



University of Dayton
Department of Computer Science

CPS 475/575
Secure Application Development
Lecture 20 –Session Protection

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4/2/2020

Review: Lab 6

Lab instructions: <http://bit.ly/secad-s20-lab6>

- Task 1: Data Protection and HTTPS
 - Follow Lecture 18 to setup HTTPS for your web server
 - Copy Lab 5 code and deploy as Lab 6
- Task 2: Secure Session Authentication
 - a. Revised Login System with Session Management (Lecture 19)
 - b. Session Hijacking - Broken authentication (Lecture 19)
 - c. Session Protection (Session Hijacking prevention) - [today](#)
- Task 3: Secure Database Modification
 - Lecture 21

Today's Agenda

- Review:
 - Broken Session Authentication: Session Hijacking Attacks
- Session Protection

Review: Revised index.php – all code together

```
1 <?php
2     session_start();
3     if (isset($_POST["username"]) and isset($_POST["password"])) {
4         if (securechecklogin($_POST["username"],$_POST["password"])) {
5             $_SESSION["logged"] = TRUE;
6             $_SESSION["username"] = $_POST["username"];
7         }else{
8             echo "<script>alert('Invalid username/password');</script>";
9             Revision session_destroy()
10            header("Refresh:0; url=form.php");
11            die();
12        }
13    }
14    if (!isset($_SESSION["logged"]) or $_SESSION["logged"] != TRUE) {
15        echo "<script>alert('You have not login. Please login first');</script>";
16        header("Refresh:0; url=form.php");
17        die();
18    }
19 ?>
20     <h2> Welcome <?php echo htmlentities($_SESSION["username"]); ?> !</h2>
21     <a href="logout.php">Logout</a>
22 <?php
```