Forms: client-side

```
< ht.ml>
   <head>
       <title> A Form Example </title>
   </head><body>
<form action="welcome.php" method="post">
Phone Number: <br /> <input type="text" name="phone"
<input type="submit" value="Submit">
</form>
</body>
</html>
□ form action – where to send the form data
□ method – how to send the data (GET or POST)
Name attributes become the keys used to access the
  corresponding fields in the $_GET or $_POST arrays
```

Forms: server-side

```
<html>
<head><title>This is welcome.php</title></head>
<body>
The name that was submitted was: &nbsp;
<?php echo $_POST['name']; ?><br />
The phone number that was submitted was: &nbsp;
<?php echo $_POST['phone']; ?><br />
</body>
</html>
```

- A simple PHP file that displays what was entered into the form
 - Can do many other things server-side depending on the situation
- □ Note the use of \$_POST

PHP Cookies

- Cookies are stored on the user's browser, and are sent to the server on every relevant request
- The \$_COOKIE superglobal makes a cookie a keyvalue pairing
 - Store user information as a value with a known key
 - Never assume a cookie has been set. Always check with isset(\$_COOKIE[\$cookie_name]) before trying to use the cookie's value

The setcookie() function

□ To set a cookie in PHP: setcookie (name, value, expire, path, domain); □ Name and value correspond to \$ COOKIE[\$name] = \$value Expiration – cookie will no longer be read after the expiration Useful to use time in seconds relative to the present: ■ time() + time in seconds until expiration Path and domain refer to where on the site the cookie is valid Usually '/' for path and the top-level domain (yoursitename.com) □ To delete a cookie, set a new cookie with same arguments but expiration in the past

Setting cookies

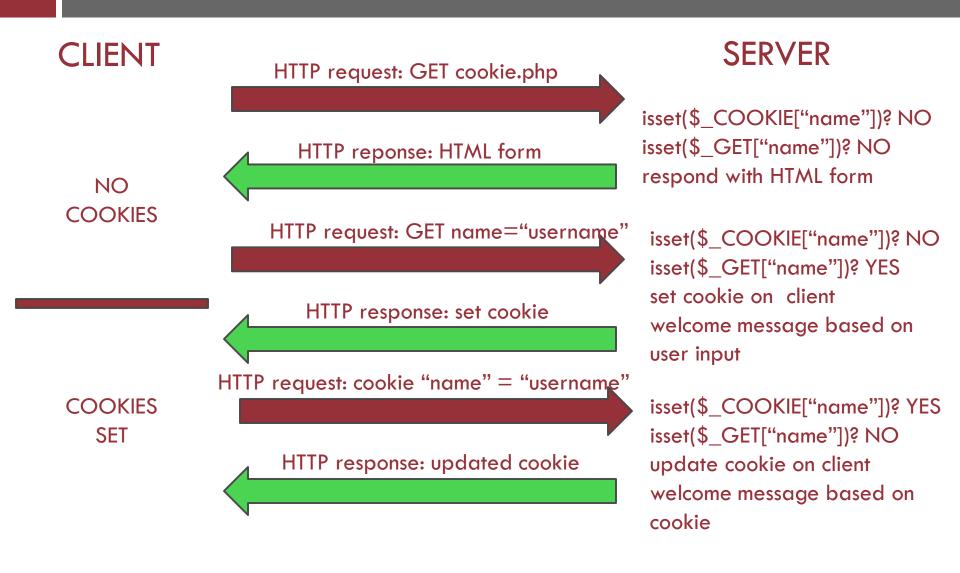
- □ Cookies are set via the HTTP header
 - Must be sent before the body before any HTML, CSS, JS, etc.
- ☐ This code will not work:

```
if(isset($_COOKIE["6470"])) {
         $value = $_COOKIE['6470'];
         echo "Cookie is set to $value";
}
else {
         $value = 0;
}
// after echo statement: will not work!
setcookie("6470", $value+1, time()+60*60);?>
```

Example of cookie usage

- ☐ First visit: form with a text field for user's name
- Subsequent visits: Welcome message with the name
- □ Store the name field in a cookie:
 - Key: "name"; value: the user's name input into the form
- Remember: when a cookie is set (the setcookie function call is made), the cookie can only be accessed on the **next** request

Contents of the HTTP request/response



Case 1: cookies already set

```
if(isset($ COOKIE["name"])) {
       $cookie exp = time() + 60*60; // one hour
       $name = $ COOKIE["name"];
       setcookie ("name", $name, $cookie exp);
       if (isset($ COOKIE["visits"])) {
              $num visits = $ COOKIE["visits"]+1;
             setcookie ("visits", $num visits, $cookie exp);
      echo "Welcome $name! ";
       if (isset($ COOKIE["visits"])) {
             echo "You've visited $num visits times";
```

Cases 2&3: first and second visits

```
// case 2: upon submission of form
else if (isset($ GET["name"])) {
   $name = $ GET["name"];
   setcookie ("name", $name, $cookie exp);
   setcookie ("visits", 2, $cookie exp);
   echo "Welcome $name! This is your second visit.";
// case 3: first visit: need to show form
else {
   <form action="<?php $ SERVER["PHP SELF"] ?>" method="get">
   Enter your name here: <input type="text" name="name" />
   <br /><input type="submit" />
   </form>
```

A registration-login example

- □ Login page
 - Check username and password
 - If already logged in (use sessions!), welcome the user by name
 - Link to register page
- □ Register page
 - Form for registration
 - If registration is successful, confirm the username
 - Link back to login page

A shared database resource

- Both login and register pages use the same database connection
- Put database connection, select database code into the same file
- □ Reference the connection resource (\$db) in other files

The login page – handle login request

```
if (isset($ POST["username"]) && isset($ POST["password"])) {
   require("db.php"); // establish DB connection
   $user = $ POST["username"];
   $pass = $ POST["password"];
   $query = "SELECT PASSWORD from users WHERE USERNAME="" .
       mysql real escape string($user) . "'";
   $result = mysql query($query, $db) or die(mysql error());
   $row = mysql fetch assoc($result);
   if ($pass == $row["PASSWORD"]) {
       $ SESSION["username"] = $user;
   else {
       echo "Invalid username or password <br />";
```

The register page

```
if (isset($_POST["username"]) && isset($_POST["password"])) {
    require("db.php");
    $user = mysql_real_escape_string($_POST["username"]);
    $pass = mysql_real_escape_string($_POST["password"]);
    $query = "INSERT INTO users VALUES ('$user', '$pass')";
    mysql_query($query, $db) or die(mysql_error());
    echo "Registration for $user was successful <br /><br />";
    // HTML login <a href> tag
} else {
    // HTML form
}
```

MySQL recap

 Connecting to database \$\square\$ \$\square\$ = \square\$ mysql_connect(location, username, password) mysql_select_db(db_name, \$db) □ Making a query \$result = mysql_query(query_string, \$db) Getting results of query while(\$row = mysql_fetch_assoc(\$result)) Sanitizing user input \$username = mysql_real_escape_string(\$_POST["username"])