Figure 23.4 Because the user has not yet logged in, show her a login page.

Figure 23.6 After the user has logged in, she can access the Members' areas.

Figure 23.5 Users who haven't logged in can't see the site content; they will be shown this message instead.
Listing 23.4 authmain.php—The Main Part of the Authentication Application

```php
<?php
session_start();

if (isset($_POST['userid']) & isset($_POST['password'])) {
    // if the user has just tried to log in
    $userid = $_POST['userid'];
    $password = $_POST['password'];

    $db_conn = new mysqli('localhost', 'webauth', 'webauth', 'auth');

    if (mysqli_connect_errno()) {
        echo 'Connection to database failed:'.mysqli_connect_error();
        exit();
    }

    $query = 'select * from authorized_users
 where name=\'userid\'
 and password=sha1\('password\')';

    $result = $db_conn->query($query);
    if ($result->num_rows)
        // if they are in the database register the user id
        $_SESSION['valid_user'] = $userid;
    }
$db_conn->close();
?>
```
Listing 23.4  Continued

<html>
<body>
<h1>Home page</h1>
<?
    if (isset($_SESSION['valid_user']))
    {
        echo 'You are logged in as: ' . $_SESSION['valid_user'] . '<br />
        echo '<a href="logout.php">Log out</a><br />
    }
    else
    {
        if (isset($userid))
        {
            // if they've tried and failed to log in
            echo 'Could not log you in.<br />
        }
        else
        {
            // they have not tried to log in yet or have logged out
            echo 'You are not logged in.<br />
        }
        // provide form to log in
        echo '<form method="post" action="authmain.php">'
        echo '<table>'
        echo '<tr><td>UserId:</td>'
        echo '<td><input type="text" name="userid"></td></tr>'
        echo '<tr><td>Password:</td>'
        echo '<td><input type="password" name="password"></td></tr>'
        echo '<tr><td colspan="2" align="center">'
        echo '<input type="submit" value="Log in"></td></tr>'
        echo '</table></form>'
    }
?>
<br />
<a href="members_only.php">Members section</a>
</body>
</html>
Listing 23.5 members_only.php—The Code for the Members’ Section of the Website Checks for Valid Users

```php
<?php
    session_start();

    echo '<h1>Members only</h1>';

    // check session variable

    if (isset($_SESSION['valid_user']))
    {
        echo '<p>You are logged in as '.$_SESSION['valid_user'].'</p>;
        echo '<p>Members only content goes here</p>;
    }
    else
    {
        echo '<p>You are not logged in.</p>;
        echo '<p>Only logged in members may see this page.</p>;
    }

    echo '<a href="authmain.php">Back to main page</a>";
?>
```
Listing 23.6  logout.php—This Script Deregisters the Session Variable and Destroys the Session

```php
<?php
    session_start();

    // store to test if they *were* logged in
    $old_user = $_SESSION['valid_user'];
    unset($_SESSION['valid_user']);
    session_destroy();
?>

<html>
<body>
<h1>Log out</h1>
<?php
    if (!empty($old_user)) {
        echo 'Logged out.<br />';
    } else {
        // if they weren't logged in but came to this page somehow
        echo 'You were not logged in, and so have not been logged out.<br>';
    }
?>

<a href="authmain.php">Back to main page</a>
</body>
</html>
```