PHP: Bonnie Brightlight 2012

Bonnie is a generous and thoughtful woman. She likes to give birthday gifts to her friends. Her one flaw is her poor memory. Facebook shows the birthday only a day before the actual date.

What the program will do

Bonnie needs an app where she can store data about her friends. Then later, she can type in the month to find which of her friends have a birthday then. The app will also display how old the friend is so that she can tailor the gift to match the age of the friend.

What the program will not do

If the user types in Mar for March, the search algorithm will not find the data in the array.

**Design specifications:**

|  |  |  |
| --- | --- | --- |
| FR01 | mainmenu | Allows user to navigate the entire program – to add data and to search for birth month |
| FR02 | Data Collection | Gathers firstname, surname, month of birth, year of birth |
| FR03 | Save data to file | Data is saved to a file. Comma or pipe delimited |
| FR04 | Search month form | A form allows the user to type in the month of birth. |
| FR05 | Read data | File is opened and data read into an array. |
| FR06 | Age calculation | The current year – birth age is calculated. |
| FR07 | Search and display month | If birth month is found, firstname, surname and age of those friends are displayed |
| FR08 | Link to add more data | User is returned to the Add Birthday data form |
| FR09 | Link back to mainmenu | User is returned to main menu |

**Data collection form**

GET firstname, surname, month of birth, year of birth

//Calls file: bonnie-savedata.php

OPEN file for append

//bonnie.txt is a csv file

Add data to the file

CLOSE file

Allow user to return to main menu.

**Search form**

GET month of birth

//Calls file: bonnie-search.php

OPEN file for read

Add data from file to array

//explode – remove the commas or pipe

IF searchmonth = month of birth THEN

 DISPLAY the name of the friend

 CALCULATE age

 //2012 – year of birth

 DISPLAY the age of the friends.

END IF

CLOSE file

Allow user to return to main menu.

<html>

<!—bonnie-bdform.html gathers firstname, surname, month, and yob and saves to file

calls bonnie-savedata.php

-->

<head>

<title>Get Data</title>

<link rel="stylesheet" type="text/css" href = "bonnie.css" />

</head>

<body>

<h2>Get the story started</h2>

<form action="bonnie-savedata.php" method="post">

<fieldset>

<legend>Bonnie gets started </legend>

<p><label>First name</label>

<input type="text" name="firstname"></p>

<p><label>First name</label>

<input type="text" name="surname"></p>

<p><label>Month of birth </label>

<input type="text" name="month"></p>

<p><label>Year of birth </label>

<input type="text" name="yob"></p>

<p class ="submit" > <input type = "submit" value = "Save data" /> </p>

</fieldset>

</form>

</body>

</html>

 --
<?php

    /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

    file: bonnie-savedata.php
    called from bonnie-bdform.html
    gathers firstname, surname, month  and yob
    to a commma delimited file
    named bonnie.txt

    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/
    include(bonnie-header.inc');
    page\_header('bonnie saves data');

$firstname = $\_POST['firstname'];
$surname = $\_POST['surname'];
$month = $\_POST['month'];
$month =strtoupper($month);
$yob = $\_POST['yob'];

$data = $firstname . ",".$surname. ",". $month.",".$yob. "\r\n";
$fh = fopen("bonnie.txt", "a");

fwrite($fh, $data);
fclose($fh);

echo "<a href= \"mainmenu.html\">Main Menu</a>"

?>
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<html>
<! bonnie-search.html
calls bonnie-search.php
to find birthday info

gets month
searches for all those in that month
outputs them
-->
<head>
<title>Bonnie has friends</title>
<link rel="stylesheet" type="text/css" href = "bonnie.css" />

</head>
<body>

<h1> Bonnie needs to search </h1>
<form action="bonnie-search.php" method=post>
<fieldset>

<legend>Month for birthday</legend>

<p ><label >Enter the month</label></p>
<p ><input type="text" name="searchmonth" /></p>

<p  class ="submit" > <input type = "submit"  value = "Clikity" /> </p>

</fieldset>

</form>

<hr />
<a href= "mainmenu.html">Main Menu</a>
</body>

</html>

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<?php
/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

file: bonnie-search.php
gets the month

 opens bonnie.txt and removes commas
  and fills array
uses a while loop
  searches for searchitem and outputs to the screen
  Thanks to Greg Durkin

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/
include('bonnie-header.inc');
page\_header('Bonnie looks for...');
$searchmonth = $\_POST['searchmonth'];
$searchmonth = strtoupper($searchmonth);
//name the file
$file = "bonnie.txt";
//create the file handler
$fh = fopen($file, "r");

    // It contains lines of code separated by commas ( , )

        while ($thisLine = fgets($fh, 2048))
        {
            $field = explode(",", $thisLine);
            // Now, $field is an array 0 .. 3 of  items from the text file.

            $firstname = $field[0];
            $surname   = $field[1];
            $month     = $field[2];
            $yob       = $field[3];
            //clean data is in array called $field
            //calc age in years
            $agenow = 2012 - $yob;
            if($searchmonth == $month)
            {
                echo "The name is ".$firstname. " who needs a gift for ".$month." .<br />";
                echo "This friend named ".$firstname. " is now ".$agenow." .<br />";
            }
        }
        fclose($fh);

echo "<br /><a href= \"mainmenu.html\">Main Menu</a>"

?>
--
<html>
<!--This program is the Main Menu for Bonnie Brightlight.

file: mainmenu.html
-->
<head>
<title>Bonnie has friends</title>
<link rel="stylesheet" type="text/css" href = "bonnie.css" />

</head>
<body>
<a href= "bonnie-bdform.html">Bonnie's database form</a>
<hr />
<a href= "bonnie-search.html">Bonnie's search for month of birth</a>
<hr />

</body>

</html>

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<?php
/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
file: bonnie-header.inc
page\_header function
incorporates css

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

function page\_header ($title)
// Use this function to make an easy page header with a title.
// This version uses a CSS file to modify the appearance.

{
    echo "<html> \n";
    echo "<head> \n";
    echo " <title> $title </title>\n";
    echo " <link rel=\"stylesheet\" href=\"bonnie.css\" type=\"text/css\">";

    echo "<body> \n";
    echo " <fieldset> ";

    echo " <legend>Bonnie has some friends</legend> ";
}

echo "<br /><br />";

?>
--

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
file: bonnie.css

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/
html
 {
     margin:0;
     padding:0;

 }

body{

    font-family: arial;
    font-size: 16px;

    margin:2em 0 0 5em;
     padding:0;
     font-family: 'Palatino Linotype', Garamond, serif;
     background: #406E72; /\* pastel greenish \*/
     color: #FFF;

}

label {
 display: block;
 width: 200px;
 float: left;

 padding-left: 5px;
    text-align: right;

    font-weight: bold;

}
input {
   float: clear;
    display: block;
    width: 150px;
    float: left;
    position: relative;
    margin-left: 4px;
    margin-bottom: 15px;

}

fieldset
{
border: 1px solid #BF3044;/**\*reddish\***/
width: 30em;
padding-bottom: 20px;
padding-left: 10px;
}

legend
{
color: #fff;
background: #A8A8B3; /\*pastel light green \*/
border: 1px solid #FFFF66; /**\*reddish\***/
padding: 2px 6px;
}

.submit  input
{

color: #fff;
background: #5877B1;/\*gold \*/
border: 2px outset #FFFF66; /\*outset so it looks like a button \*/
margin-left: 4em;
margin-top: 2em;
font-weight: bold;
width: 100px;
padding-bottom: 5px;

}

h1{
    color: #666633;
}

a{
    text-decoration: none;

}
a:link{
    color:#000; /\* black \*/
}

a:visited{
    color: #000; /\* black \*/
}
a:hover {
    color: #DAE492; /\*grey \*/
}