

Information Systems in Healthcare – Michel Kana, PhD - Homework

Solution by Katarzyna Dunikowska

1. Write a PHP program with the following characteristics
 - A HTML form where user can enter a patient name, age and gender
 - PHP code that stores the patient data to a database table
 - PHP code that displays the list of all patients from the table

A HTML form where user can enter a patient name, age and gender

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
  <head>
    <meta http-equiv="content-type" content="text/html; charset=utf-8">
    <title> Patient data </title>
  </head>
  <body>
    <form method="post" action ="login.php">
      <table border="0" cellpadding="0" cellspacing="0">
        <tr>
          <td>Name:</td>
          <td><input type="text" name="log" size="20"></td>
        </tr>
        <tr>
          <td>Age:</td>
          <td><input type="text" name="log" size="20"></td>
        </tr>
        <tr>
          <td>Gender:</td>
          <td><input type="text" name="log" size="20"></td>
        </tr>
        <tr>
          <td colspan="2"><input type="submit" name="submit" value="OK"></td>
        </tr>
      </table>
```

```
<form>
</body>
</html>
```

2. Java Server Page (JSP) is another server-side language for programming dynamic web pages.
 - Highlight major similarities and differences between PHP and JSP

PHP is a server-side scripting language that has its main implementation in web development. However, it can be used as a general-purpose programming language. PHP includes a command-line interface capability and can be used in standalone graphical applications. PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data.

JSP technology can be considered an alternative to PHP in implementing such front-ends. While it is part of the Java framework, developers typically use JSP to implement lightweight front-ends. Both PHP and JSP allow developers to write HTML embedded code. In fact, although there are language inherent differences between PHP and Java, the use of PHP scripts and JSP files can be very similar.

Java	PHP
Java uses the '.' operator	PHP object method calls use the '->' operator
Java is compiled to bytecode	PHP is interpreted.
In Java, a separate method must be defined for each possible list of parameters.	PHP methods and functions allow for optional parameters.
In Java, variable names do not usually start with a '\$'	PHP requires '\$' - be used when an object calls its own methods.
In, Java, OOP (object oriented programming) is the default.	PHP offers OOP as an option that is ignored in most projects.
Constructors in Java are named after the class name.	In PHP they are called __construct()

1. http://download.springer.com/static/pdf/734/bok%253A978-3-540-89856-6.pdf?auth66=1385112492_0846527fd8a911853da4f46b5231b3cf&ext=.pdf