Project plan

This is a detailed description of how I intend to carry out this project.

To begin the project I will start with the backed since it provides the foundation for the entire projects.

I will create the database files on which the rest of the project will depend on.

Next I will create the xsl files which will be used to style the information from the xml files.

I will then create the php files which will merge the xml and xsl files to bring out presentable data.

Finally I will separate the admin and user functions and implement access restrictions.

Purpose

The major function of this website will be to provide a platform within which clients can buy products given by the platform.

Requirement Specification

For the website administrator, all that will be needed are his basic information such as username, firstname, lastname, phone, email and password.

For the users/clients the following information will be required of them;username, firstname, lastname, phone, email, password, their shipping address and billing information.

Design

The frontend design is built with html, css and xslt.

The website contains the following component; At the top of the hierarchy are tow main components, the admin component and the client component.

Admin component

Under the admin component the following pages are included: login, registration, users page, products page, orders page,logout and navigation.

Upon registration the admin is redirected to the login page and then after registration he is redirected to his dashboard.

The dashboard show a summary of the users on the platform and orders.

The orders page allows the admin to view all orders placed by users.

The users page allows the admin to view all the users present on the platform.

The products page allows the admin to view product details.

The products update page allows the admin to update product details.

The logout page clears session data.

Client component

Under the users component the following pages are included; login page, registration page, dashboard page, order page, orders page,details page, logout and navigation.

Upon registration the users are redirected to the login page and then after registration they are redirected to their respective dashboards where the can view products and make orders.

The dashboard page displays products available for sell. Users can click on a product to view more information about it before ordering it. This redirects them to the details page where they can view more information about the products before making an order.

The order page allows the user to order a product.

The orders page allows the user to view a history of their orders.

The logout page clears session data.

Backend design

Database design

The database is built using xml.

Each component(admin and user) will have a folder of their own.

The following xml files will be present:

users.xml – This is the file in which all users, details are stored.

products.xml – This is the file in which the details of all products available on the platform are stored.

admin.xml – This is the file in which all admin details are stored.

orders.xml – This is the file in which all orders made by clients are stored.

The admin will have full access to all the information on these files while the users will have restricted access to information in users.xml and orders.xml as they will only be able to view information relevant to them. They will have full access to the products.xml file and with no access to admin.xml file.

Database Access

.php files are used to link the fronted of the website and the backend of the website.

The following php files are used by the admin component:

login.php- This file allows for login and access restriction.

register.php - this files facilitates the input of admin data into the database.

users.php- this file allows the admin to access all user information.

products.php-this file allows the admin to access all product information.

orders.php-this file allows the admin to view orders placed in the platform.

nav.php – This is the navigation panel

logout.php-this file clears session data.

These are found in the /*php/*admin/ folder

The following php files are used by the client component:

login.php- This file allows for login and access restriction.

register.php - this files facilitates the input of user data into the database.

dashboard.php-this file allows the user to access all products.

details.php-this file allows the user to access more product information.

order.php-this file allows the user to place orders.

orders.php-this file allows the user to view orders placed by them.

nav.php – This is the navigation panel

logout.php-this file clears session data.

These are found in the /*php/* folder

The php files load the xml files and their respective xsl files, combines them and brings out the result.

Implementation.

1. Server installation

The implementation of this system requires that the user installs a server on their computer.

In this case I downloaded and installed apache server.

2. php installation

The running of this system requires the installation of php to interpret the php files present in the system.

In this case I used PHP 7.4.3

3.Browser setup

Finally, a suitable browser is required to view the system.

I used chrome browser since it detects local addresses much faster.