Product Management System

Overview

This PHP-based system provides a simple way to manage products using an XML file as a data storage mechanism. It includes functionalities for listing existing products in an HTML table and inserting new products through a form.

Main Components

**products.php**   
This script displays a table containing all products stored in products.xml. It utilizes the Products class to read and render the data.

**lib.php**

Defines the Products class, which handles product retrieval, display, and insertion into the XML file.

print\_html\_table\_with\_all\_products(): Generates and prints an HTML table containing all products from the XML file.

print\_html\_of\_one\_product\_line($prod): Helper function that prints a single product row inside the table.

insert\_product\_xml($prod): Adds a new product entry to products.xml, ensuring data consistency and handling special fields like CDATA sections.

get\_post\_data(): Retrieves user-submitted form data for product insertion.

add\_cdata\_child($parent, $name, $value): Handles special characters by wrapping XML nodes inside a CDATA section.

**viewproducts.php**

Contains an HTML form for adding a new product.

Users can input product details, and upon submission, the data is processed and stored in products.xml.

The NAME field is mandatory.

Installation Instructions for the Product Management System

**Prerequisites**

* **Web Server**: Apache or Nginx
* **PHP**: Version 7.4 or later
* **Permissions**: Write permissions for the XML file (e.g., products.xml)
* **PHP Extensions**: libxml, simplexml

**Installation Steps**

1. **Download and Upload Files**
   * Download all project files (e.g., products.php, lib.php, viewproducts.php, products.xml) to your local computer.
   * Upload the files to the appropriate directory on your web server (e.g., /var/www/html/).
2. **Set File Permissions**

* Ensure that the products.xml file has writte permissions from the web server. You can do this by running the following command in the terminal:

**chmod 666 /var/www/html/products.xml**

1. **Ensure that PHP** is installed on your server and is working correctly. You can test this by creating an info.php file in the web root directory with the following content:

* Open this file in your browser (e.g., **http://localhost/info.php**) and check that you see the PHP information page.

1. **Open Scripts in Browser**

* Open products.php in your browser (e.g., http://localhost/products.php). This will display the table of products