**DATABASE PROJECT**

**ONLINE SHOE STORE**

**Introduction:**

This project aimed to develop a comprehensive database system for a shoe store to efficiently manage various aspects of the business, including customer orders, product inventory, and sales reports. The implementation utilized XAMPP as the database management system and incorporated HTML, CSS, and PHP for front-end and back-end development. This report provides an overview of the project, highlighting the key features and functionalities implemented.

**Objectives:**

The primary objectives of the shoe store database project were as follows:

* Design and develop a user-friendly pre-login page, login page, and admin page.
* Create different tables in the XAMPP database to store information related to products, orders, customers, and sales.
* Implement a product page, order detail page, and report page to facilitate efficient data retrieval and analysis.
* Design and implement a customer page allowing customers to place orders, including a checkout page for order confirmation and a search page for product exploration.
* Ensure data consistency, integrity, and security within the database.

**Methodology:**

The project was implemented using the following methodology:

**Requirements Analysis:** The functional and non-functional requirements were identified through discussions with group members and an understanding of the shoe store's operations.

**Database Design:** The database schema was designed, including the creation of tables, table normalization, defining relationships, and establishing appropriate constraints using XAMPP.

**Front-end Development:** The pre-login, login, admin, product, order detail, report, customer, checkout, and search pages were developed using HTML and CSS, providing an interactive and visually appealing user interface.

**Back-end Development:** PHP was utilized to handle server-side logic, customer password security using Password hash process form submissions, interact with the database, and perform data validation.

**Testing and Debugging**: Rigorous testing was performed to ensure the functionality, usability, and reliability of the database system across different user scenarios.

**Database Design:**

The shoe store database was designed to include the following key tables:

**Product Table:** Stores information about each shoe product, including its unique identifier, name, price, description, available quantity, color, and size.

**Order Table:** Contains details about customer orders, such as order ID, product ID, quantity, and order date.

**Conclusion:**

The shoe store database project successfully implemented a user-friendly and efficient system for managing various aspects of the business. The utilization of XAMPP as the database management system, along with HTML, CSS, and PHP, enabled the development of interactive and dynamic web pages. The implemented features, including pre-login and login pages, admin functionalities, product browsing, and ordering capabilities, checkout and search functionality, and reporting capabilities, provide a seamless experience for both customers and administrators. The project lays a solid foundation for the shoe store to streamline its operations, and enhance customer satisfaction of the shoe store database system.

**Helping Material:**

* Youtube videos
* W3school.
* PHP manual.

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