

VIETNAM NATIONAL UNIVERSITY HO CHI MINH CITY
HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY
FACULTY OF COMPUTER SCIENCE AND ENGINEERING



Web Programming

Lab

Individual Web

Instructor: Dr. Nguyen Duc Thai
Class: CC01
Students: Nguyen Anh Tuan 1953070

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1 Introduction

This project is a music store website designed to allow users to search for, view details of, and purchase music records and related merchandise. The website features a modern, user-friendly interface with integrated functionalities such as a shopping cart, product management for administrators, and smart search capabilities.

2 Features and Technologies Used

2.1 Key Features

- **User Authentication:** Allows users to register and log in to access features like the shopping cart and admin management.
- **Product Search:** A smart search bar with real-time suggestions based on user input. If you are on product page, the result will be displayed direct on the page.
- **Detailed Product View:** Displays product name, price, description, and image.
- **Shopping Cart:** Users can add, update, and remove products from their cart, with real-time updates via AJAX.
- **Admin Product Management:** Administrators can add, edit, and delete products through a dashboard.
- **Responsive Design:** The website is optimized for both desktop and mobile devices.

2.2 Technologies Used

- **Frontend:** HTML, CSS, Bootstrap 5, jQuery.
- **Backend:** PHP 7.4+, MySQL.
- **Database:** MySQL with tables for accounts, products, categories, and cart.
- **AJAX:** Used for dynamic content loading, such as search suggestions, pagination, and cart updates without page reloads.



3 Work Done, Design Decisions, and Challenges

3.1 Work Done

- **Building the Interface:** Utilized Glassmorphism CSS to create a modern, translucent design with a focus on user experience.
- **Integrating Smart Search:** Implemented a search bar that provides product suggestions as users type, enhancing usability.
- **Shopping Cart Management:** Developed a dynamic shopping cart system that allows users to manage their selections without page reloads.
- **Admin Dashboard:** Created a user-friendly interface for administrators to manage products efficiently.

3.2 Design Decisions

- **Glassmorphism Style:** Chosen for its modern aesthetic and ability to create a visually appealing, lightweight interface.
- **AJAX Implementation:** Used to improve user experience by enabling seamless interactions without full page reloads.
- **Relative Paths:** Ensured compatibility across different deployment environments by using relative paths for resources.

3.3 Challenges Faced

A significant challenge was integrating the Google API for the store locator feature. Due to payment issues during the API registration process, I was unable to obtain a valid API key. In addition, I'm doing capstone project so I do not have enough time to finish the last feature: Google map integration.

4 How to Run the Website

I used MAMP to develop my website, in order to run the website locally or on a server (MAMP), follow these steps:

1. **Extract the Project Folder:** Unzip the project folder into the server's root directory (e.g., htdocs for MAMP).
2. **Create a MySQL Database:** Create a database name: **music_store**.



3. **Import the SQL File:** Import the `product_account.sql` file into the database.
4. **Configure Database Connection:** Update the `db_connect.php` file with the correct database details:

```
$host = 'localhost';  
$dbname = 'music_store';  
$username = 'root';  
$password = 'root'; // password mac dinh tren MAMP
```

5. **Access the Website:** Open a browser and navigate to `http://localhost/Web/index.php` (or the corresponding domain).
6. **Test Accounts:**
 - Admin: `admin@sample.com` / Password: `Admin123@`
 - User: `user@sample.com` / Password: `User123@`



References

- [1] My website is available at: https://github.com/tuannguyen62/WEB_PROGRAMMING_HCMUT_HK242_LAB.git