

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



## Web Programming (CO3049)

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### Lab Final Product

# WEB PROGRAMMING LAB

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Advisor(s): Nguyen Duc Thai

Student(s): Tran Le Tien Dat 2252149

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## 1 Introduction

This website's purpose is selling music products online with allowing users to login, showing the catalog, add and remove products, admin can add, remove or edit products information, with a user-friendly design.

## 2 Layout Design

The layout design of my webpage consists of the following elements:

- Header Section:

- A full-width navigation bar at the top with a dark green background.
- The website logo is displayed on the left side, next to the search bar.
- Navigation links ("Home," "Categories," "Contact," "Log in," "Sign up", "Log out") are aligned to the right in white text in desktop and tablet views. In the mobile view, they are centre alignment in many lines.

- Main Content Section:

- The background color of the main content area is a soft gradient color (light blue to lavender tones), clean and modern..
- Buttons and elements use a mix of blue, pink/red, and white colors for a gentle but stylish aesthetic.

- Scrollbar on the Right:

- The presence of a scrollbar indicates that the page is scrollable, implying more content below.

## 3 Features

### 3.1 Navigation bar



Figure 3.1: Navigation bar



This navigation bar gives full access to all of user's pages which are:

- Home page.
- Categories (or sub categories) page.
- Contact page.
- Sign up/Log in in Guest view, Log out in User or Admin view.
- Cart page in User view.

### 3.2 Home page



Figure 3.2: Home page

The Home page of the website is well-organised with the following components:

- The page shows 4 lastest products added to the store.
- Each product can be accessed by clicking in their box.
- You can also access the full store by clicking in the "→ Go to all products" button.

### 3.3 Categories page

The Categories page is organized with the following components:

- The store products are shown in pagination way, 8 products are shown in 1 page.
- Each product can be accessed by clicking in their box.



(a) Admin view

(b) Pagintion

(c) Sort by descending price

(d) Guest and User view

Figure 3.3: Features in Categories page

- You can also sort these products shown by name or price (ascending or descending) in buttons "Sort by" box.
- Only on Admin view, admin can add a new product by clicking in "Add item" button.

### 3.4 Add New Item page

The form fields are:

- Product name:
- Price:
- Image path:  /images/
- Category:  CD
- Description:

**Create new item**

Figure 3.4: Add New Item page



The Add New Item page contains blank form for admin to type in Product name, Price, Image path (which is automatically leads to /images/ directory in the source code folder), category (retrieved from the database), description of the product and a button to create the product.

### 3.5 Product description page

(a) User/Guest view

(b) Admin view

Figure 3.5: Product description page

The Product description page contains the following components:

- An image of the product on the left side of the page.
- On right, product's name, price, quantity and button to add to cart, description.
- User can add product to cart by choosing the wanted amount then clicking in the button.
- Guest when clicking in the button will be led to the log in page.
- Only on Admin view, admin can modify the product by clicking in "Edit" button.



### 3.6 Edit Product page

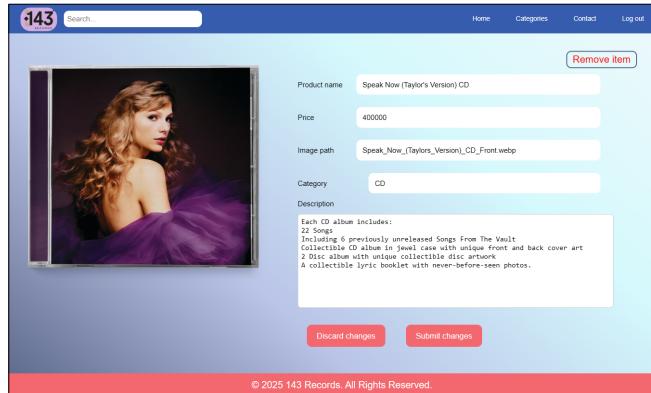


Figure 3.6: Edit Product page

The page is similar to the Add New Item page with the form which is filled with the current information and placed on the right, and product's image is on the left. A button to "Remove Item" is placed at the top right of the page. There are 2 buttons to submit changes or remove changes at the final of the form. After clicking one of the buttons, admin will be redirected to the product description page.

### 3.7 Contact page

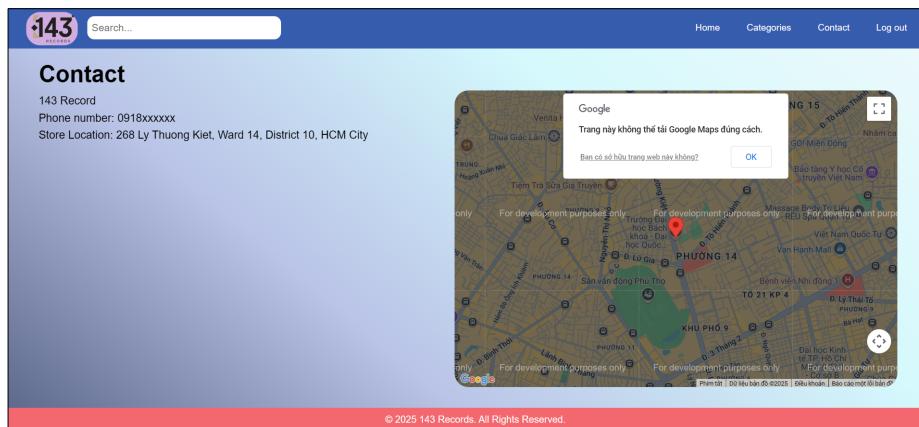
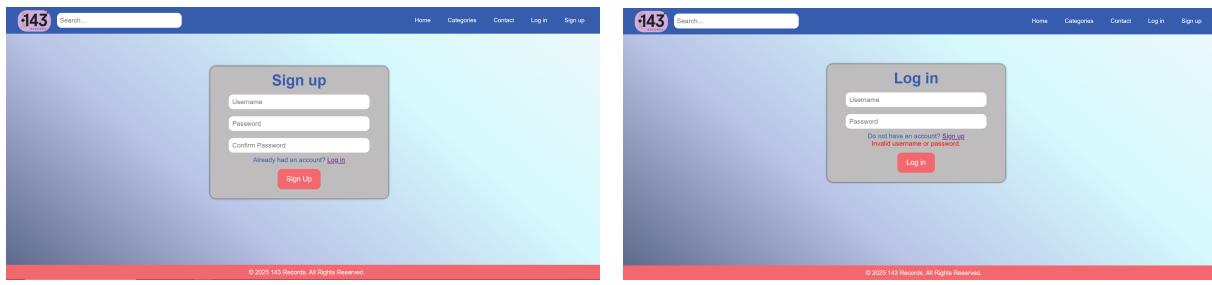


Figure 3.7: Contact page

The page shows information of the store and its address on Google Maps.

### 3.8 Sign in/Log in page

The 2 pages have the similar following contents:



(a) Sign in

(b) Log in

Figure 3.8: Sign in/Log in page

- They require users to input username and password (confirm password in case they register a new account).
- A button to submit the form to the server.
- A redirect request if a user has an account or not, to log in our sign up to the website.
- A message will be displayed in case of:
  - Log in (error): Username or password is incorrect.
  - Sign up:
    - \* Password and confirm password are not the same (error).
    - \* Username is already exist (error).
    - \* The account is registered successfully (notification).

**• Default log in account:**

- User:
  - \* Username: dat
  - \* Password: 123456
- Admin:
  - \* Username: admin
  - \* Password: admin



### 3.9 User's Cart page

The screenshot shows a shopping cart interface. At the top, there is a search bar and navigation links for Home, Categories, Contact, Log out, and dat's cart. The main area is titled "Shopping cart". It lists two items:

- 143 Exclusive Deluxe Purple Vinyl: Price 1.050.000 VND, quantity 5, with "Remove" and "+" buttons.
- Speak Now (Taylor's Version) CD: Price 400.000 VND, quantity 1, with "Remove" and "+" buttons.

A "Place order" button is located at the bottom right. The footer contains the text "© 2025 143 Records. All Rights Reserved."

Figure 3.9: User's Cart page

The page is divided into two parts.

- On the left side are all products that the user added to their cart. They can change the number of products by clicking on the "-" or "+" button or "Remove" it from the cart.
- On the right side, the user can see the total price of the order and may choose to place the order.

### 3.10 Search engine

(a) Search 1 results for "taylor":

- 1989 (Taylor's Version) CD: 340.000 VND
- RED (Taylor's Version) CD: 400.000 VND
- Speak Now (Taylor's Version) CD: 400.000 VND
- Fearless (Taylor's Version) CD: 340.000 VND

(b) Search 2 results for "143":

- 143 Spotify Fans First Exclusive Clear Orange Vinyl: 850.000 VND
- 143 Exclusive Deluxe Purple Vinyl: 1.050.000 VND
- 143 Standard CD: 400.000 VND
- 143 Cassette: 510.000 VND

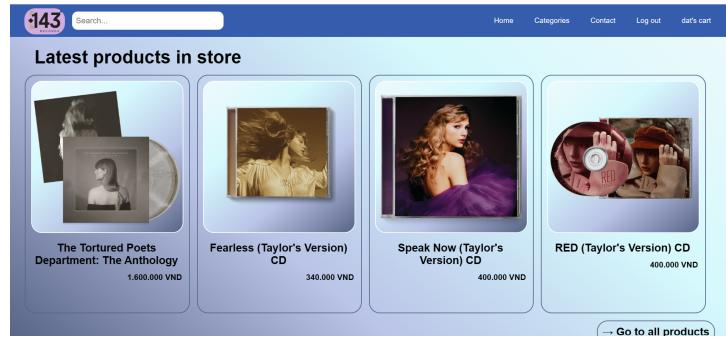
Figure 3.10: Search results

The AJAX search is integrated for users to find specific products in store.

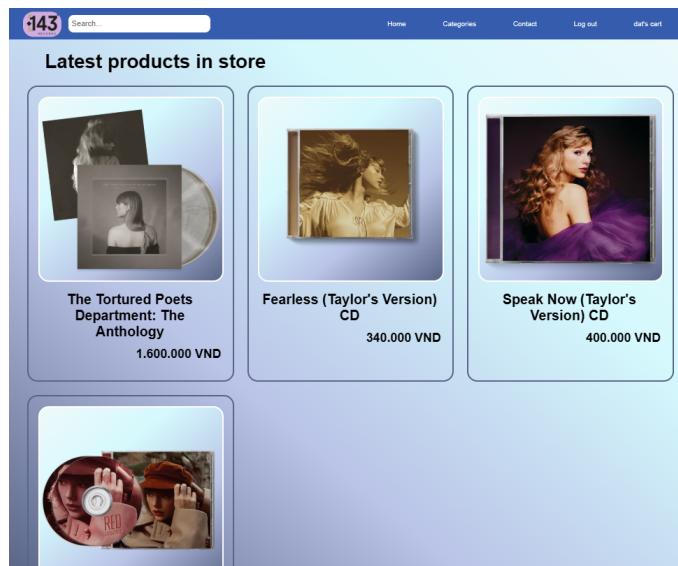


### 3.11 Responsive

Responsive design is applied for all pages on the website. Navigation buttons in mobile view are hidden, and will be shown when clicking the menu button.



(a) Desktop View



(b) Tablet View



(c) Mobile View

Figure 3.11: Responsive in different devices