

FINAL PROJECT - HW2

CENG 3502, Dynamic Web Programming
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E-Commerce Website

Abstract

An eCommerce website is a site that sells products and services through means of data transfer over the internet. In this project, I designed and developed an e-commerce music store that sells electronic music products with PHP, HTML, CSS, JS, and SQL.

1 Introduction

E-commerce (electronic commerce) is the activity of electronically buying or selling products on online services or over the Internet. In this project, I implemented an e-commerce site which is called Music Store. Anyone can register and have an account, users can add products to their cards, they can update products like adding new or deleting existing products. Users can list products by their categories. The shopping cart allows them to add, remove, delete products from the cart. They can proceed to checkout and fill address and payment information of the order.

There is one admin on the website with the username "admin". When the admin logs in, the system redirects to the admin panel instead of the homepage. Admin can add or delete categories, products, and users. Admin can also display the homepage and other pages of the website. Admin and users can log out from their account, they can upload their profile.

2 Webpages

2.1 Homepage

The homepage is the index page of the website which appears first. The user can look at products by clicking on the 'Explore Now' button or the 'Products' button and can display the shopping cart by clicking on the 'Shopping Cart' button. If there is no user logged in the system, the 'Login' option will appear on the header of the website where users can log into their account.

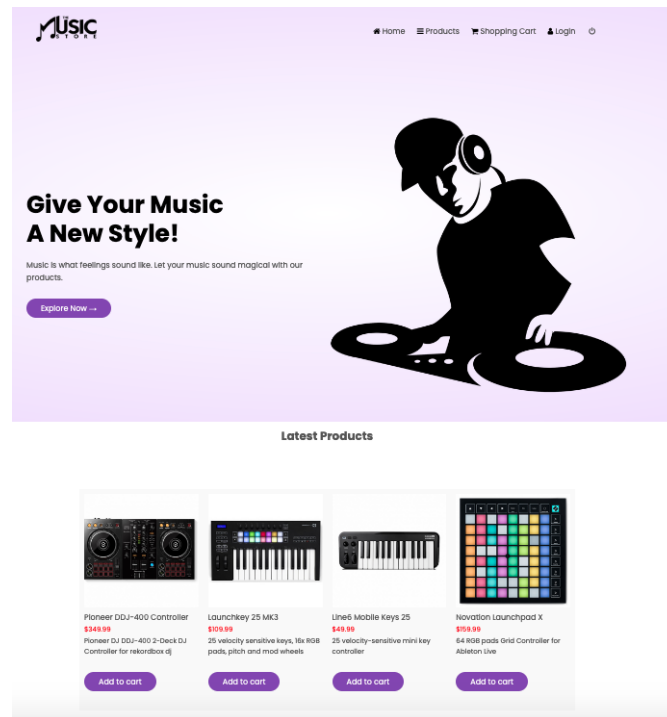


Figure 1: Homepage

2.2 Login & Sign Up Page

Users can fill in their information and can log into their accounts. If they do not have an account they can go to the registration page by clicking on the 'Sign Up' text.

The image shows two side-by-side forms. The 'Login' form on the left has fields for 'username' and 'password', a 'Submit' button, and a link at the bottom that says 'Don't have an account? Sign Up'. The 'Sign Up' form on the right has fields for 'username', 'e-mail', and 'password', a 'Submit' button, and a link at the bottom that says 'If you already have an account Login'.

Figure 2: Login & sign up forms

2.3 Products

The products page displays all products. The user can show products by their categories with the 'Categories' dropdown menu. Users can update products by clicking on the 'Update products' button and can display the details of a product by clicking on it.

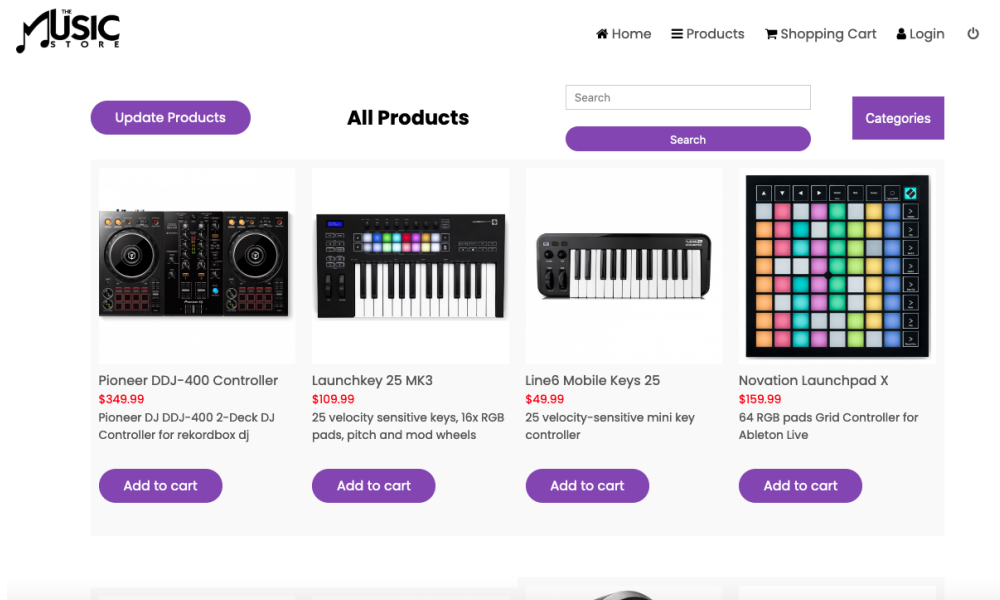


Figure 3: Products page

2.4 Shopping Cart

Users can click on the 'Add to cart' button and add the product to their shopping cart. They can go back to the products page by clicking on the 'Continue' button or proceed to checkout.



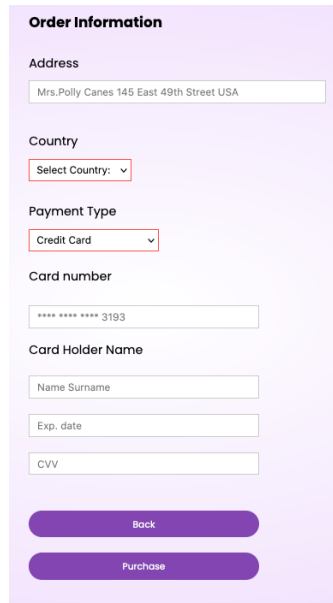
Product		Quantity	Subtotal
	Line6 Mobile Keys 25	3	\$149.97
	Price: \$49.99		
	Add Remove Delete		
	Novation Launchpad X	1	\$159.99
	Price: \$159.99		
	Add Remove Delete		
		Items	4
		Shipping and Handling	Free
		Total	\$309.96
		Continue	Proceed to checkout →

Figure 4: Shopping cart

2.5 Checkout Page

Users can fill in the address information and select the payment type and information.

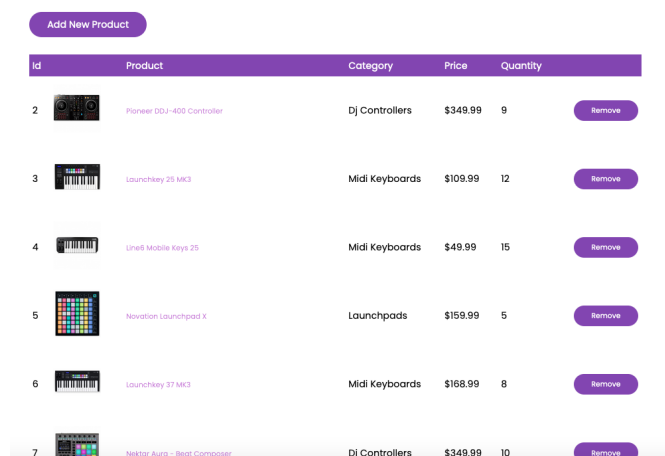


The image shows a checkout form titled "Order Information" on a light purple background. It contains several input fields and dropdown menus. The "Address" field is a text box containing "Mrs.Polly Canes 145 East 49th Street USA". The "Country" field is a dropdown menu with "Select Country:" and a downward arrow. The "Payment Type" field is a dropdown menu with "Credit Card" and a downward arrow. The "Card number" field is a text box containing "**** * 3193". The "Card Holder Name" section includes three text boxes: "Name Surname", "Exp. date", and "CVV". At the bottom, there are two purple buttons: "Back" and "Purchase".

Figure 5: Order form

2.6 Update Product

This page displays all products. Users can update product information, add new products or remove existing ones here.



The image shows a table for managing products. At the top left is a purple button labeled "Add New Product". The table has five columns: "Id", "Product", "Category", "Price", and "Quantity". Each row represents a product and includes a "Remove" button. The products listed are:







Id	Product	Category	Price	Quantity	Remove
2	 Pioneer DDJ-400 Controller	DJ Controllers	\$349.99	9	Remove
3	 Launchkey 25 MK3	Midi Keyboards	\$109.99	12	Remove
4	 Line6 Mobile Keys 25	Midi Keyboards	\$49.99	15	Remove
5	 Novation Launchpad X	Launchpads	\$159.99	5	Remove
6	 Launchkey 37 MK3	Midi Keyboards	\$168.99	8	Remove
7	 Nektar Aura - Beat Composer	DJ Controllers	\$349.99	10	Remove

Figure 6: Update products page

2.7 Admin Panel

The system checks if the logged-in username and password belong to the admin. If it is, it displays the admin panel. I used a template from *W3Schools*^[1] for the admin panel. Admin can view, add, update and delete products, categories, and users. By clicking on the 'Homepage', the admin can also display the website.

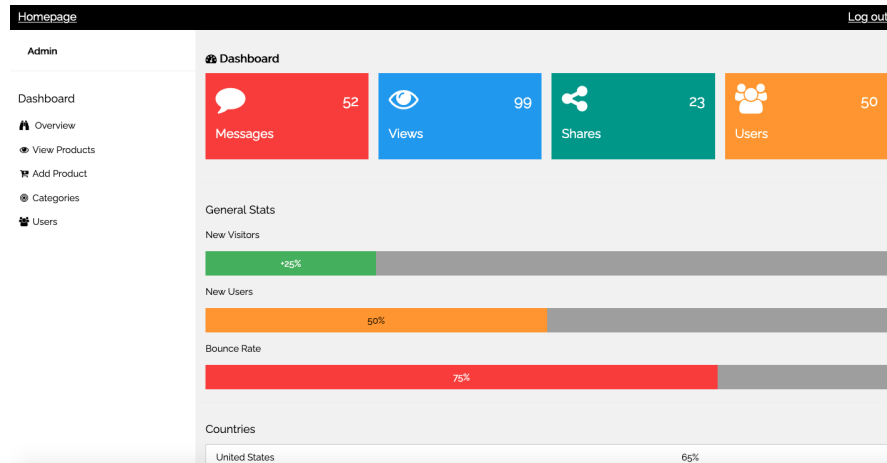


Figure 7: Admin panel

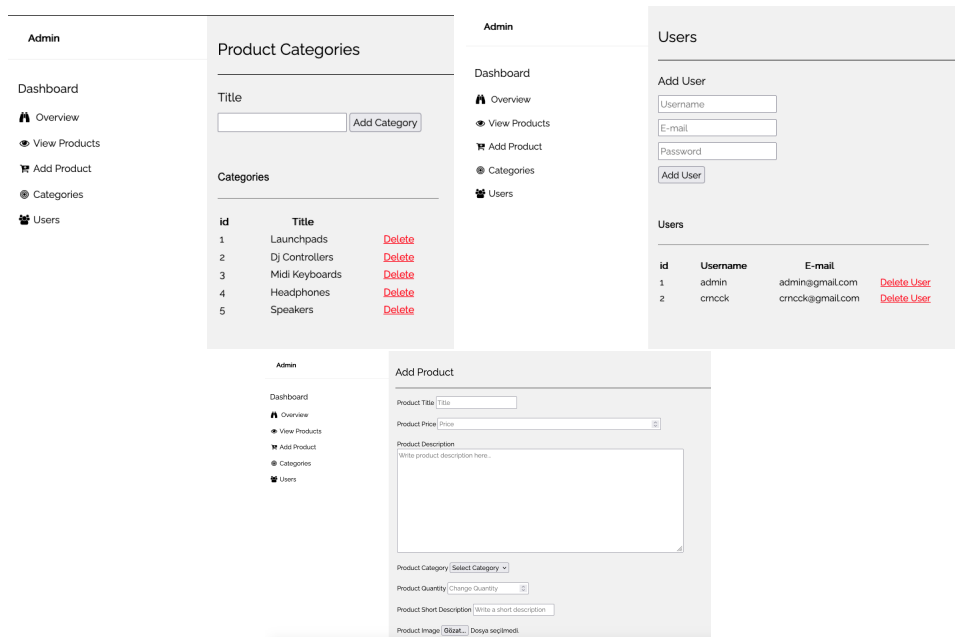



Figure 8: Admin category, user and product pages

2.8 Product Details

This page displays the details of the chosen product. It also displays similar products which are from the same category down below.



Novation Launchkey 61 MK3 Midi Keyboard

\$259.99

Add To Cart

PRODUCT DESCRIPTION

Deep Ableton Live Integration – Immediate access to all the controls you need and never lose ideas or happy accidents with the Capture Midi function. 61 Velocity-sensitive keys and 16 velocity-sensitive pads enable expressive and dynamic performance. Tweak instruments and effects to perfection using the eight rotary encoders and nine 45mm faders. Three chord modes (fixed, scale and user) let you trigger chords with one finger. The powerful arpeggiator will take you to new melodic, harmonic and rhythmic places.

Related Products





 Launchkey 25 MK3 ★★★★☆ \$109.99	 Line6 Mobile Keys 25 ★★★★☆ \$49.99	 Launchkey 37 MK3 ★★★★☆ \$168.99	 Novation Impulse 49 Controller ★★★★☆ \$299.99
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Figure 9: Product detail page

3 Technologies used

- Sublime Text
- LaTeX
- XAMPP
- phpMyAdmin

4 Database Diagram

The database contains 3 tables which are categories, products, and users. The categories and products table have one to many relation.

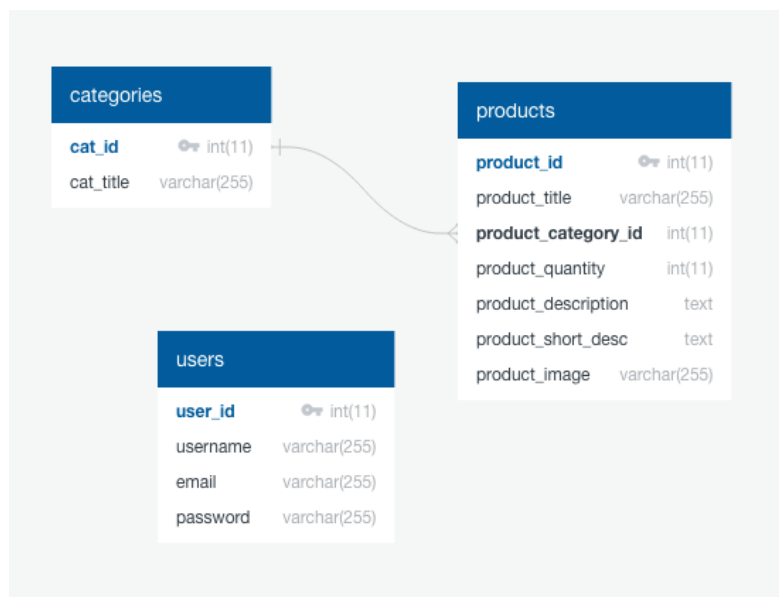


Figure 10: ER diagram

5 Project

I implemented the connection of the database on the 'config.php' file and include it on every other file. I implemented functions in the 'functions.php' file and include this file in the 'config.php' file too.

I separated the header and footer of the website into new files and include them on the necessary pages. By this way, new changes will be applied to all pages.

I created a new folder "uploads" which will contain product images uploaded by the user.

6 Conclusion

E-commerce (electronic commerce) is the activity of electronically buying or selling products on online services or over the Internet. In this project, I implemented an e-commerce site which is called Music Store. I learned to use PHP to connect the website with a database and how show data on it.

References

- [1] Admin Panel Template