University of British Columbia
COSC 304: Introduction to Databases

Batik Fusion   Products   Recommend Me   About Us   Login

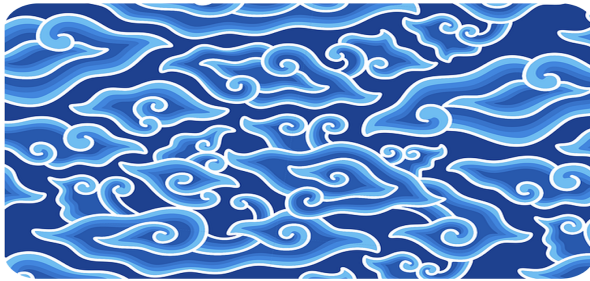✳ **Tradition *Meets*
Modern Style.**

Discover more →

Batik Fusion

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Table of Contents

Mission Statement

Our mission is to bring the beauty and craftsmanship of Indonesian batik to Canada, offering authentic, handcrafted fabric that reflects both tradition and modern style.

Executive Summary

"Batik Fusion" will sell authentic Indonesian batik fabric, designed to inspire the Canadian market. We will offer a wide selection of premium batik fabrics, suitable for a variety of uses from everyday sewing projects to creating bespoke pieces. Each fabric is crafted by skilled artisans using traditional batik techniques. Our aim is to introduce Canadians to the rich history and artistry of batik, while providing high-quality, one-of-a-kind textiles that stand out. Our target audience includes creative individuals, designers, and those who appreciate unique, culturally rich materials. By offering something truly special, we aim to connect customers with the beauty of batik and support the artisans who bring this art form to life.

System Features

Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
Documentation (15 total points)				
Executive Summary (up to 1 page)	Core	2		COSC304_finalreport.pdf
System Features (2 pages)	Core	2		COSC304_finalreport.pdf
List of Web and AI sources used	Core	3		COSC304_finalreport.pdf
Walkthrough with screenshots (up to 15 pages)	Core	8		COSC304_finalreport.pdf
Hosting (10 total points)				
Running on cloud server	Advanced	10		Can be accessed here: (removed)
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1		listprod.js
Browse products by category	Core	1		listprod.js
List products (by search/browse)	Core	1		listprod.js
List products with image	Core	1		listprod.js
Page header with menu	Basic	1		index.handlebars (top navigation bar)
Page header shows current logged in user	Basic	1		index.handlebars
Dynamic products on page based on sales	Basic	2		index.handlebars (All Time Bestsellers)
Improved UI (user-friendly, images, etc.)	Basic	2		index.handlebars (show the uniqueness of our store)
Product recommendation based on user	Advanced	4		recommendMe.js
Shopping Cart (up to 8 total points)				
Add to shopping cart	Core	1		addcart.js
View shopping cart	Core	1		showcart.js
Update quantity (with data validation)	Basic	1		showcart.js
Remove item from shopping cart	Basic	1		showcart.js
Improved formatting/UI (e.g. in header bar)	Basic	1		showcart.js
Cart stored in database between sessions	Basic	3		

Checkout (up to 9 total points)				
Checkout with customer id	Core	1		checkout.js
Checkout with payment/shipment info	Basic	2		checkout.js, order.js
Checkout with data validation	Basic	2		checkout.js
Multiple shipments per order supported	Advanced	2		
Calculate taxes/shipping (by items/state)	Advanced	2		
Product Detail Page (up to 2 total points)				
Product detail page and item description	Core	1		listprod.js, product.js
Product detail has an image from database	Core	1		listprod.js, product.js

User Accounts/Login (up to 12 total points)			
Create user account page	Basic	2	signup.js, signuppage.js
Create account with data validation	Basic	2	signup.js(check if username already exist), signuppage.js
Edit user account info (address, password)	Basic	2	customer.js
Login/logout	Core	1	login.js, logout.js
Register user/Forgot password email	Advanced	4	
Page listing all orders for user	Core	1	listorder.js
Product Reviews (up to 5 total points)			
Ability to enter a review on a product	Basic	2	addreview.js
Display product review on product detail page	Basic	1	addreview.js
Restrict to one review per user on item purchased	Advanced	2	addreview.js
Warehouses/Inventory (up to 5 total points)			
Display item inventory by store/warehouse	Basic	2	
Edit item inventory by store/warehouse	Advanced	3	
Administrator Portal (up to 19 total points)			

Secured by login	Core	1		admin.js
List all customers	Core	1		admin.js
List report showing total sales/orders	Core	1		admin.js
Report with a graph	Advanced	3		
Add new product	Basic	2		admin.js, addproduct.js
Update/delete product	Basic	2		admin.js, deleteProduct.js, updateProduct.js
Change order status/ship order	Basic	1		
Upload a photo to file system for product	Advanced	2		
OR: Upload a photo to database for product	Advanced	4		
Database restore with SQL script	Basic	2		
Add/update warehouse, customer	Basic	2		
Database System/General				
Implement some validation using triggers	Advanced	2		
Use AJAX for some pages	Advanced	4		
User interface and navigation/usability		Up to 5		all pages have consistent and nice UI + top navigation bar for usability
Others (your suggestions)		Up to 5		
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)				

Resources used

Materials

- Batik images: Google, pngtree
- SVG icons: flowbite

Tools
- GitHub
- VS Code
- Figma
- Image to SVG code converter: webutility.io
- AWS EC2 Cloud Server

Use of AI

We use ChatGPT to help us better understand the concept of connecting database to web programming. Some parts of code were also generated by ChatGPT.

Other ways we use ChatGPT:
- Help with styling (CSS)
- Tailor some description in the homepage and about us
- Fix errors and bugs (why and how to solve it)
- Help creating a new page and connect it to server.js
- Identify where the error is

Others

- Web design inspirations: dribble
  https://dribbble.com/shots/24257855-Web-design-for-SAS-Design-Studio
  https://dribbble.com/shots/23656518-Web-UI
  https://dribbble.com/shots/24724029-NexaPulse-web-design

- Hosting in cloud server
  https://www.youtube.com/watch?v=qNIniDftAcU
  https://www.youtube.com/watch?v=nQdyiK7-VlQ

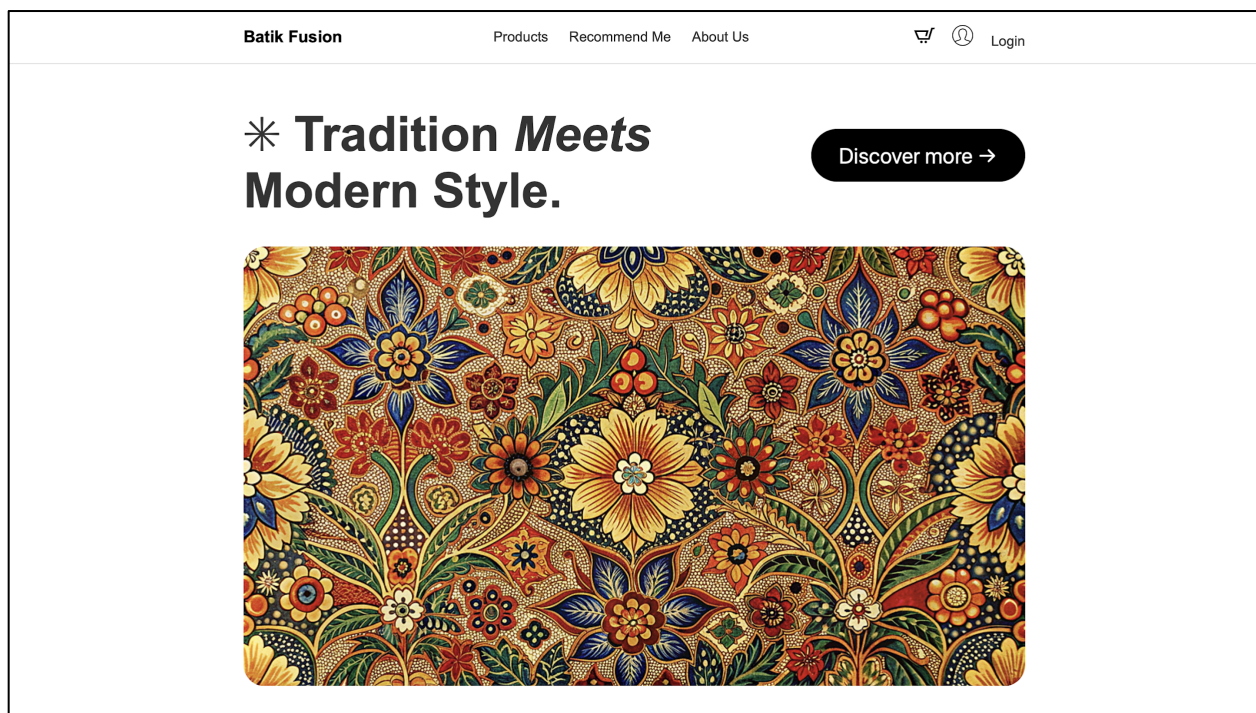## Instruction on how to try it

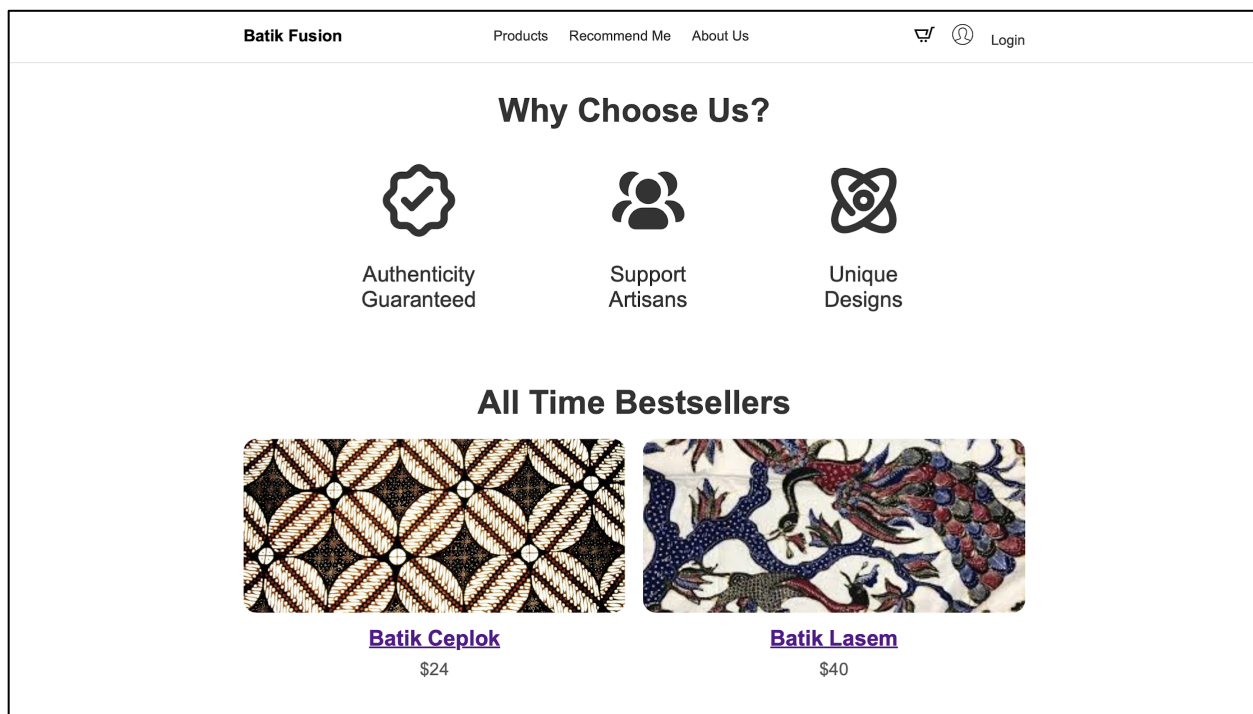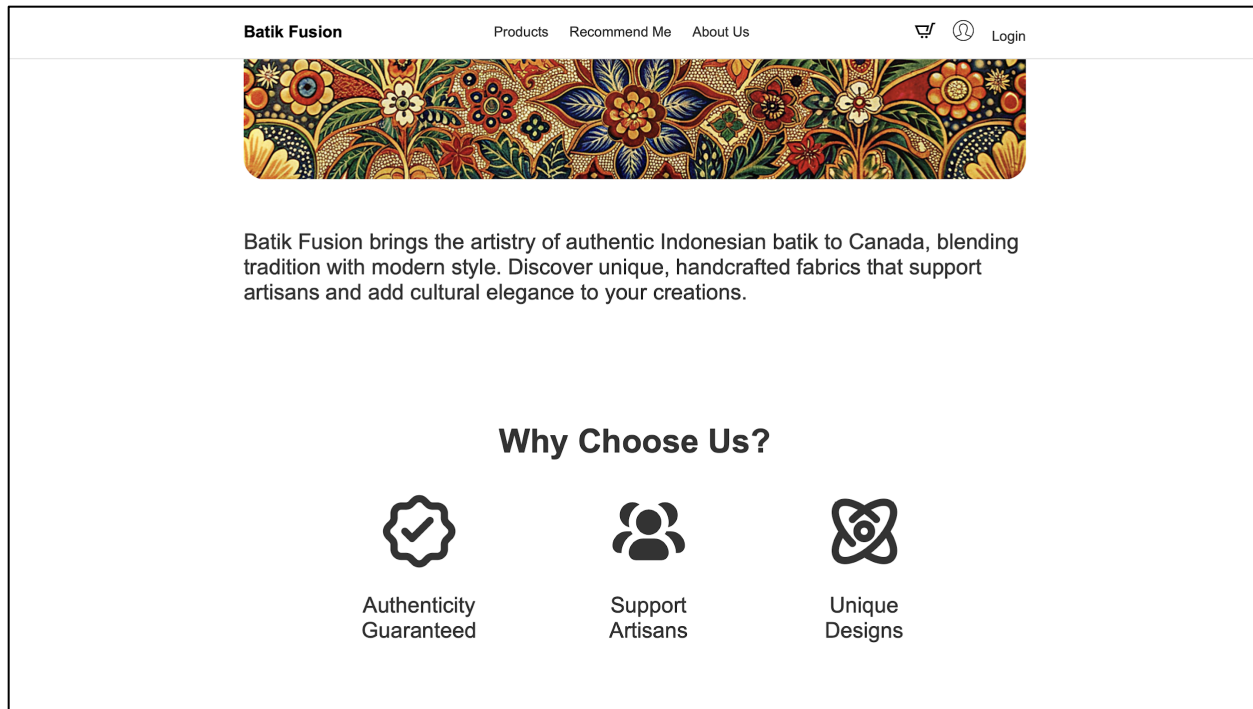Using cloud server: (removed)

Manually on your local machine:
1. Clone the repo from here: (removed)
2. Open the folder using IDE like VS Code
3. Run this command: docker-compose up –build
4. Load the data first http://127.0.0.1/loaddata
5. You can now explore features on the website here: http://127.0.0.1

For the account to login, you can try either Username: arnold, bobby, or berak
and the Password: test, bobby, berak
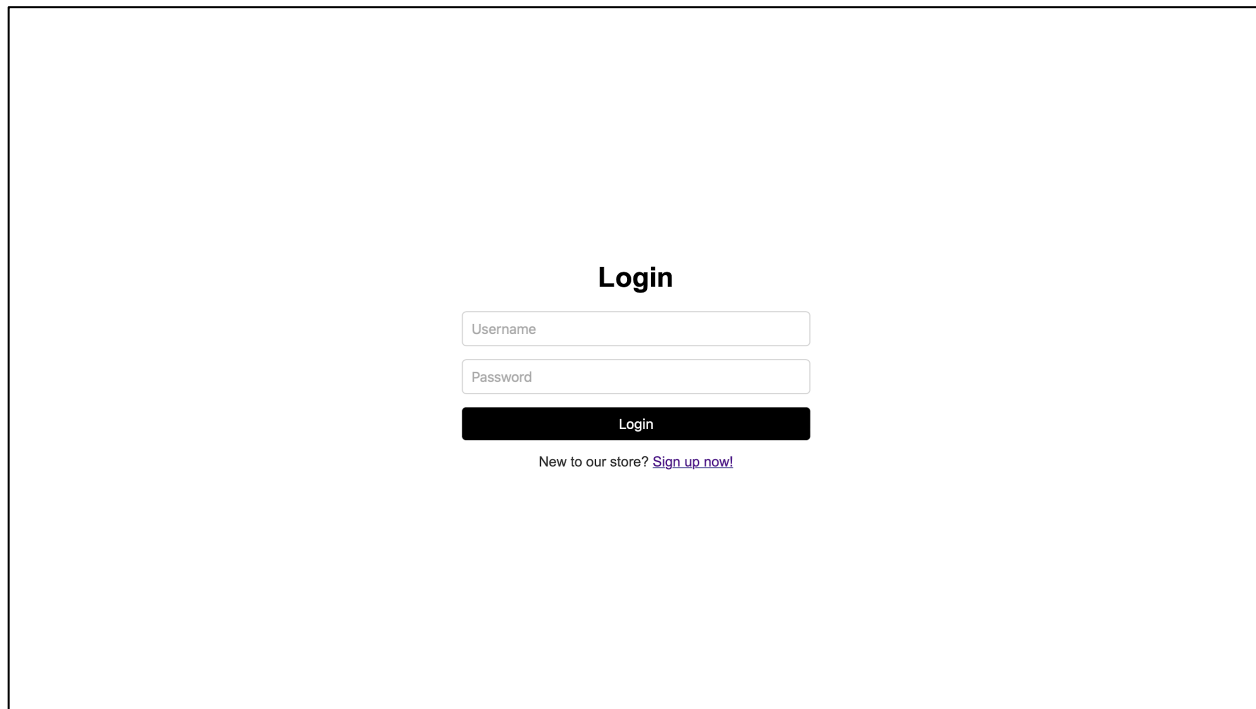Or you can signup to create your own account!

Walkthrough

1. Homepage

Batik Fusion   Products   Recommend Me   About Us   🛒 ⓘ Login

Batik Fusion brings the artistry of authentic Indonesian batik to Canada, blending tradition with modern style. Discover unique, handcrafted fabrics that support artisans and add cultural elegance to your creations.

Why Choose Us?

Authenticity
Guaranteed

Support
Artisans

Unique
Designs

Batik Fusion   Products   Recommend Me   About Us   🛒 ⓘ Login

Why Choose Us?

Authenticity
Guaranteed

Support
Artisans

Unique
Designs

All Time Bestsellers

Batik Ceplok   **Batik Lasem**
$24 $40

On the homepage of Batik Fusion, visitors are greeted with a clean design showcasing the brand's mission and vibrant batik patterns. Customers can browse products, explore recommendations, learn about the brand, log in, or check their cart, all while being introduced to key values like authenticity and unique designs. Featured bestsellers, such as "Batik Ceplok" and "Batik Lasem," are highlighted to encourage exploration.

2. Navigation Bar

| Batik Fusion | Products | Recommend Me | About Us | 🛒 👤 Login |
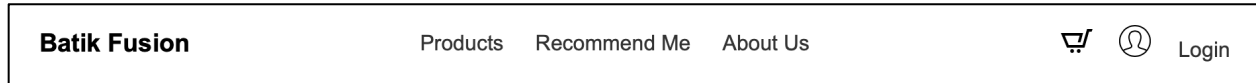
The Batik Fusion navigation bar offers quick access to Products, Recommend Me, About Us, login, and the shopping cart for a streamlined user experience. Other than homepage, it will be accessible for all pages for improved usability.

3. Login and Signup Page

Login

Username

Password

Login

New to our store? Sign up now!

Signup

First Name

Last Name

Email

Phone

Address

City

State

Postal Code

Country

Username

Password

Sign Up

The Login page lets users access their accounts with a username and password, while new users can navigate to the Signup page to register by filling out a simple form with their details.
If username already exists, the signup page will prevent us from registering new users.

Signup

Account with the username you entered already exist! try again with another username!

First Name

Last Name

Email

Phone

Address

City

State

Postal Code

Country

Username

Password

Sign Up

4. Product Page
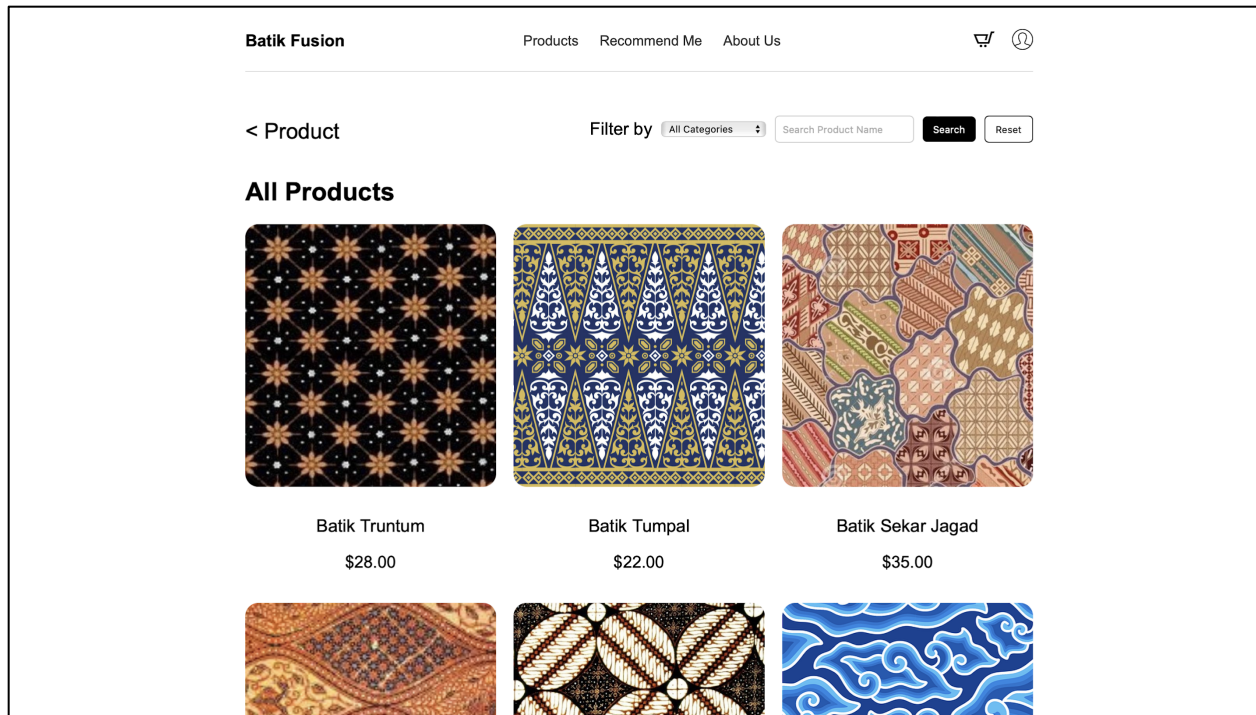
The product page provides a clean layout showcasing all available batik designs, including Batik Truntum, Batik Tumpal, and Batik Sekar Jagad, with prices clearly displayed. Users can filter products by categories or search by name using the search bar and reset filters easily.

5. Product Details Page
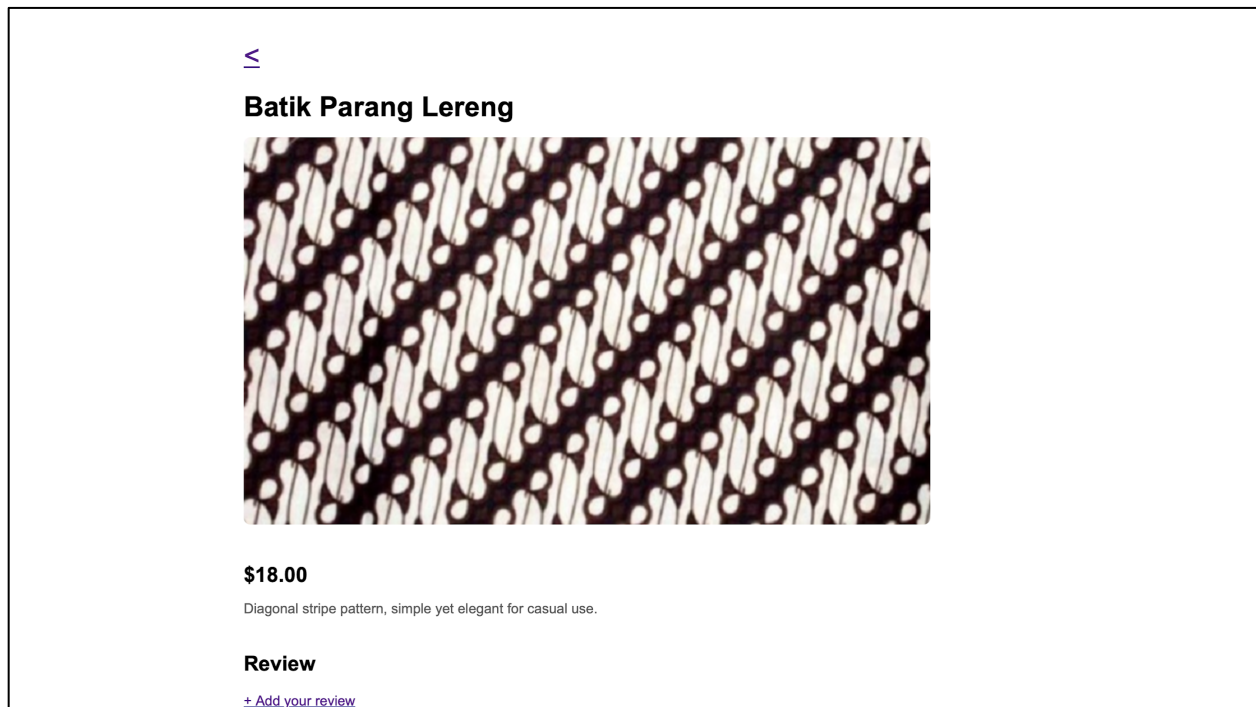
Review

+ Add your review

Elizabeth on 12/5/2024
[5/5] The design is simple yet classy. A great addition to my collection.

Continue shopping   + Add to cart

The product details page provides a clean layout with a large product image, price, and a brief description highlighting its features. It includes a section for customer reviews and an option to add a new review. Users can easily continue shopping or add the product to their cart.

6. Add Cart Page

Batik Fusion   Products   Recommend Me   About Us

< Your Shopping Cart

Batik Tumpal (ID: 2)	Quantity: 2	Remove Item from Cart	Update Quantity	$44.00
Batik Mega Mendung (ID: 6)	Quantity: 1	Remove Item from Cart	Update Quantity	$30.00
Total			**$74.00**	

Continue shopping   Check out

The Shopping Cart page shows the items the user has added, their quantities, and prices. The user can update quantities, remove items, see the total cost, and choose to continue shopping or check out.

7. Checkout Validation and Confirmation

Enter your customer ID to complete the transaction:

Customer ID: 1

Password: ••••

Reset   Submit

Your Order Summary

Product Id	Product Name	Quantity	Price	Subtotal
2	Batik Tumpal	2	$22.00	$44.00
6	Batik Mega Mendung	1	$30.00	$30.00
			Total	$74.00

Order Completed. Will be shipped soon...

Your order reference number is: 5

Shipping to customer: 1 Name: Arnold Anderson

The Checkout Validation and Confirmation process ensures a smooth transaction. Users are prompted to enter their customer ID and password to complete the purchase. Once validated, the order summary displays product details, quantities, total cost, and an order reference number. A

confirmation message informs users that the order is complete and will be shipped soon, along with shipping details for added clarity.

8. Recommend Me Page
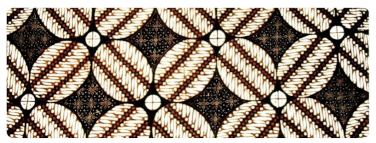
The Recommend Me page of Batik Fusion offers a personalized shopping experience by asking users a series of questions, such as the occasion, preferred theme, and favorite color tone. Based on the responses, tailored product recommendations like "Batik Tumpal" and "Batik Ceplok" are displayed under the "Picked for You" section. This intuitive feature simplifies the decision-making process for users.

9. Customer Profile Page

Login

You have not been authorized to access the URL
http://127.0.0.1/customer

Username

Password

Login

New to our store? Sign up now!

Batik Fusion   Products   Recommend Me   About Us

Hi, bobby!

Your profile

ID	2
First Name	Bobby
Last Name	Brown
Email	bobby.brown@hotmail.ca
Phone	572-342-8911
Address	222 Bush Avenue
City	Boston
State	MA
Postal Code	22222
Country	United States
User ID	bobby

Back to Main Page

Edit Profile

Logout

Hi, bobby!

Your profile

ID	2
First Name	Bobby
Last Name	Brown
Email	bobby.brown@hotmail.ca
Phone	572-342-8911
Address	222
City	Boston
State	MA
Postal Code	22222
Country	United
User ID	bobby
New Password	•••••
Old Password for Verification:	old password

Save Changes

The Customer Profile page on Batik Fusion allows users to view and manage their personal information, including name, contact details, address, and user ID. Users can also edit their profile, update their password, and save changes easily. A logout option and navigation back to the main page ensure smooth account management.
If user tries to edit but input a wrong old password (for verification), it will prevent the user from edit their profile.

Hi, berak!

Your profile

ID	6
First Name	Berak
Last Name	Sitanggang
Email	beraksitanggang@gmail.com
Phone	1234567890
Address	326 Berak Way
City	Kelowna
State	BC
Postal Code	V1V 0C7
Country	Canada
User ID	berak

Back to Main Page

Edit Profile

Failed to edit profile! try again with correct password!

10. About Us Page

Batik Fusion Products   Recommend Me   About Us

About Us

At Batik Fusion, we are passionate about bringing the timeless beauty and intricate craftsmanship of Indonesian batik to Canada. Founded with the vision of blending tradition with modern style, our goal is to introduce Canadians to the rich history and artistry of batik through authentic, handcrafted fabrics.

Each piece we offer is meticulously crafted by skilled artisans, using traditional techniques passed down through generations. Our curated selection of premium batik fabrics is designed to inspire creativity, whether for everyday sewing projects, bespoke designs, or statement pieces.

We believe in more than just fabric—we are connecting cultures, celebrating heritage, and supporting the artisans who make this exquisite art form possible. Our customers are individuals who value unique, culturally rich materials, and share our appreciation for creativity and quality.

At Batik Fusion, we're more than a fabric shop—we're a bridge between tradition and innovation, artistry and modern design. Join us in celebrating the beauty of batik and the stories it tells.

Internal Links

| Administration Portal | List Order |

The About Us page highlights the brand's mission to bring the beauty and craftsmanship of Indonesian batik to Canada. Additionally, internal links to the Administration Portaland List Order are provided for administrative access.

11. Internal Links: Administration Portal

Administrator Sales Report by Day

Order Date	Total Order Amount
Tue Oct 15 2019 00:00:00 GMT+0000 (Coordinated Universal Time)	$294.00
Wed Oct 16 2019 00:00:00 GMT+0000 (Coordinated Universal Time)	$170.00

Back to Main Page

Customer Name's List

Name
Arnold Anderson
Bobby Brown
Candace Cole
Darren Doe
Elizabeth Elliott

Add product

Product Name	
Category ID	
Product Desc	
Product Price	

Add Product

Delete product

Add product

Product Name	
Category ID	
Product Desc	
Product Price	

Add Product

Delete product

Product ID:	

Delete Product

Update Product

Product ID	
Product Name	
Product Desc	
Product Price	

Update Product

The Administration page under Internal Links provides a summary of daily sales totals and a customer list for tracking purposes. Admins can manage products through sections to Add, Delete, or Update product details, ensuring efficient inventory control and sales monitoring.

12. Internal Links: Order List

Order List

Order ID: 1

Date: October 15th 2019, 10:25:55 am
Customer: Arnold Anderson

Product	Quantity	Price
Batik Truntum	1	$28.00
Batik Ceplok	2	$34.00
Batik Parang Lereng	1	$18.00

Total Amount: $114.00

Order ID: 2

Date: October 16th 2019, 6:00:00 pm
Customer: Bobby Brown

Product	Quantity	Price
Batik Ceplok	5	$34.00

Total Amount: $170.00

The Order List page under Internal Links provides a detailed view of all customer orders. It includes order IDs, dates, customer names, product details (quantity and price), and total amounts, making it easy to track and manage orders efficiently.

Others

Some wireframes we made in Figma
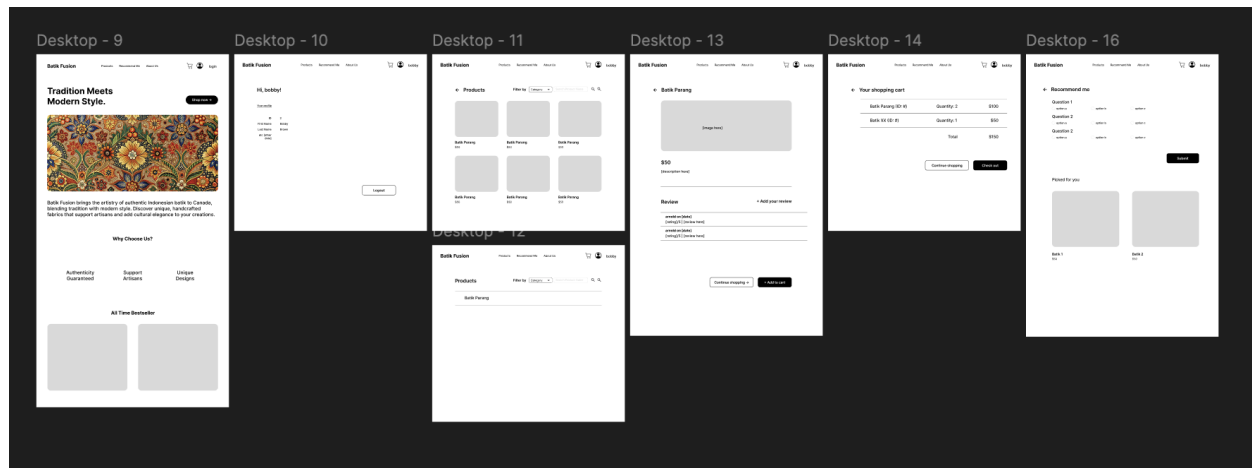
Reflections

Error handles is an important part of building this website since a little mistakes in running the code will cause a whole error of a page. A working code with logic error also causes confusion. In some of new features we keep forgetting to do the error handles.

Using GitHub ensures better task distribution and team efficiency. We also know that having a rough sketch or wireframes can make the development process faster and improve UI/UX usability.

Overall, we've learned a great deal in this course about integrating databases, designing user interfaces, and streamlining workflows to create better applications.