PROJECT DOCUMENTATION

Project Name: ANICLO RETAIL SHOP 2023

I. INTRODUCTION

AniClo Retail Shop is an online platform offering Anime-themed clothing designs for all users. Our purpose is to *promote Japanese Anime culture* and make it accessible to all audience. While our target audience encompasses *individuals of all ages* specifically focus is on catering to the preferences of anime enthusiasts, particularly teenagers and children.

Our website exclusively only features *Anime merchandise*, including clothing items that showcase popular characters and series. The interface includes key sections such as the *homepage,* where featured products and promotions are highlighted, and a detailed product page allowing users to explore different offers. We included also a *shopping cart* functionality, enabling users to review and manage their selected items. Additionally, we included *social media platforms*, ensuring that users can stay connected with us and rate their favorite products. Incorporating third-party software, our Social Media Pages and associated accounts provide an avenue for users to engage with us beyond the website. For any inquiries or assistance, the Contact Information and Customer Support are available.

II. PROJECT OVERVIEW

Project Objectives

AniClo Retail Shop's objective is to establish a website dedicated to selling and promoting Anime Merchandise, with a specific focus on catering to all Anime Lovers. The goal is to create a user-friendly interface that is accessible and easy to navigate for individuals. The website aims to provide a seamless experience, ensuring that users, regardless of their technological proficiency, can navigate through it easily.

Furthermore, the website seeks to contribute to the growing popularity of Japanese culture, specifically the Anime. As one of the trending cultural elements of Japan, Anime holds a significant place in global entertainment. AniClo Retail Shop aims to not only offer Anime merchandise but also serve as a platform to highlight this unique aspect and creativity of Japanese culture.

Key Features

The key features used for the system are:

A. **User Account** – Create, track and confirm user's orders

B. **Homepage** – Highlights Specific Items
C. **Product Catalog** – Display product information such as Name, Color, Size, and Price
D. **Shopping Cart** – Ability to create, remove and update orders
E. **Payment Gateways** – Secure payment for transactions. We integrated Paypal as our payment gateway.
F. **Social Media Integrations** – Allow users to explore more about other website related to anime.
G. **Customer Support** – Includes contact and Return Policy for the user to follow and use.
H. **Shipping Payment Integration**- Allows users to calculate the overall total of his/her purchased items.
I. **Inventory Management** – Allows the admin to track the total sales and quantity of each items sold.
J. **Analytics/ Suggestion Box** – Allows users to send a suggestion, comment or ratings to the admin.
K. **Product Recommendations** – Allows users to see suggested items while browsing
L. **Return and Refund Policy** – allow users to view the step and ways how to refund and return an item.
M. **Search Bar** – Allow users to search a specific item
N. **Responsive** – Allow users to view the system through different devices.

Technologies Used

Frontend: HTML, CSS, Javascript

Backend: PhpMyAdmin

Payment Gateways: Paypal

Customer Support: Social Media Platforms / Suggestion or Recommendation Box

Version Control: Github

UI Design: Figma and Adobe

III. SYSTEM ARCHITECTURE

Website architecture is the hierarchical structure of your website pages. This structure is reflected through internal linking. This website's structure should help users easily find information and help search engine crawlers understand the relationship between different pages.

The Aniclo Retail shop architecture comprises three tiers: frontend for user interaction, backend with web and application servers handling logic and database interaction, and middleware facilitating communication. The web server manages static content and directs requests to the application server, which executes business logic and interacts with the database storing product and user data.

Data Flow Diagram
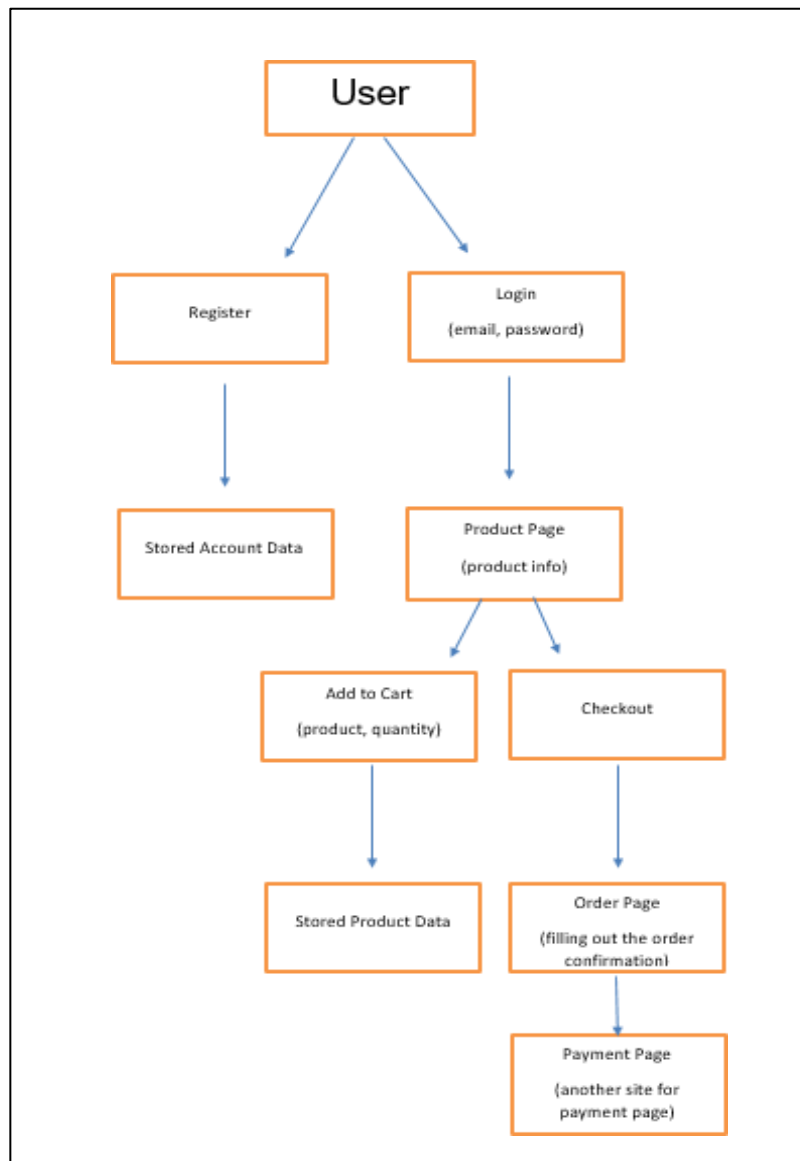
Components and Modules

A. Product Management Module – This handles the product catalog including the product descriptions, name, price, and sizes.

B. Shipping Cart Module – This is where the customers can customize their items before paying. They can create, update, or delete the orders they have selected.

C. Payment Gateway Module – Allows user to pay their items SECURELY using different method such as Digital Wallet (Paypal) or Bank Account.

D. Order Management Module – This tracks the status of the order. In our website, once a user is paid, there will be a confirmation email sent to verify that the order is Confirmed and its now processing.

E. Inventory Module – This allows the developers to track their total sales and total number of items sold.

F. Customer Relationship Module – This allows the system to get the customer's feedback or comments on our service.

G. Content Management Module – Allows the developer to manipulate the website such as (Creating, Deleting, and Updating) product descriptions.

H. Shipping and Logistics Module – Allow user to locate his/her exact location of address to ensure smooth delivery service.

I. Review and Rating Module – In our website, there is a suggestion box at the bottom wherein a user can submit his/her suggestions or Reviews.

J. Social Media Integration Module – Allow users to explore more about anime using different social media link, such as Blogs Links and more.

K. Return and Refund Module – At the bottom of the website, there is a return and refund policy for the user to follow.

L. Responsive Design Module – Allow user to view the website through a desktop or mobile phone for them to navigate it smoothly and easily.

M. Search Bar Module – Allow users to search for a specific item in the product catalog.

IV. SITE STRUCTURE

Navigation Menu

1. **Home –** Front page of the AniClo Retail Shop

2. **Products –** Product Details (Sort according to Type, Prices, and Gender Specifications)

3. **About –** Website Overview, Objectives and Introducing the Team/Developers.

4. **Account –** Logging In Existing Account and Registering New Account

5. **Logout –** Logout Account

6. **Shopping Cart -** Selected Items to Purchase

7. **Social Media Pages -** Third Party APIs

8. **Customer Support –** Return and Refund Policy

9. **Search Bar –** Search Items
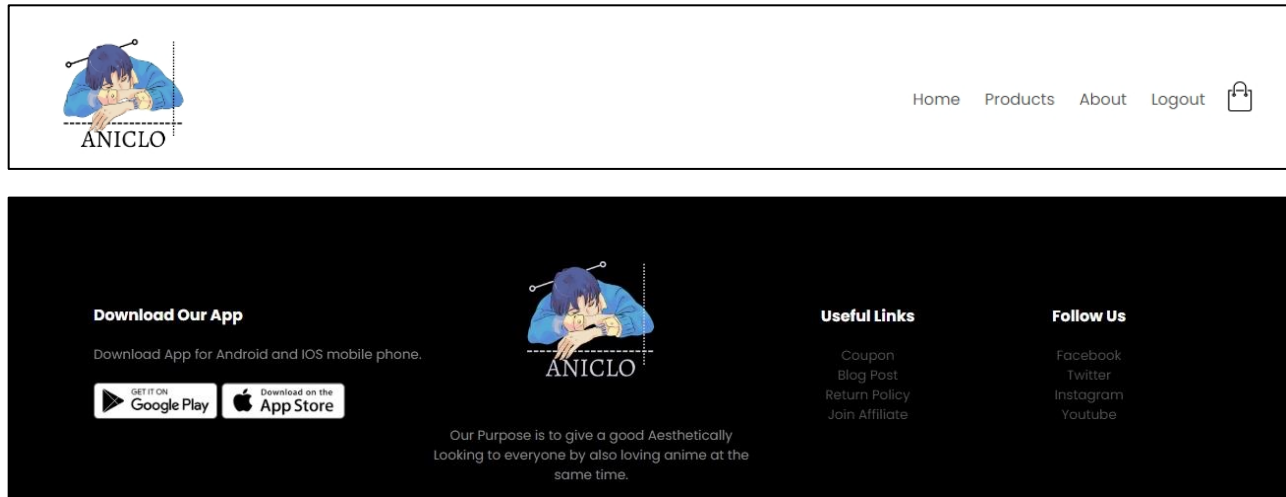
Sitemap
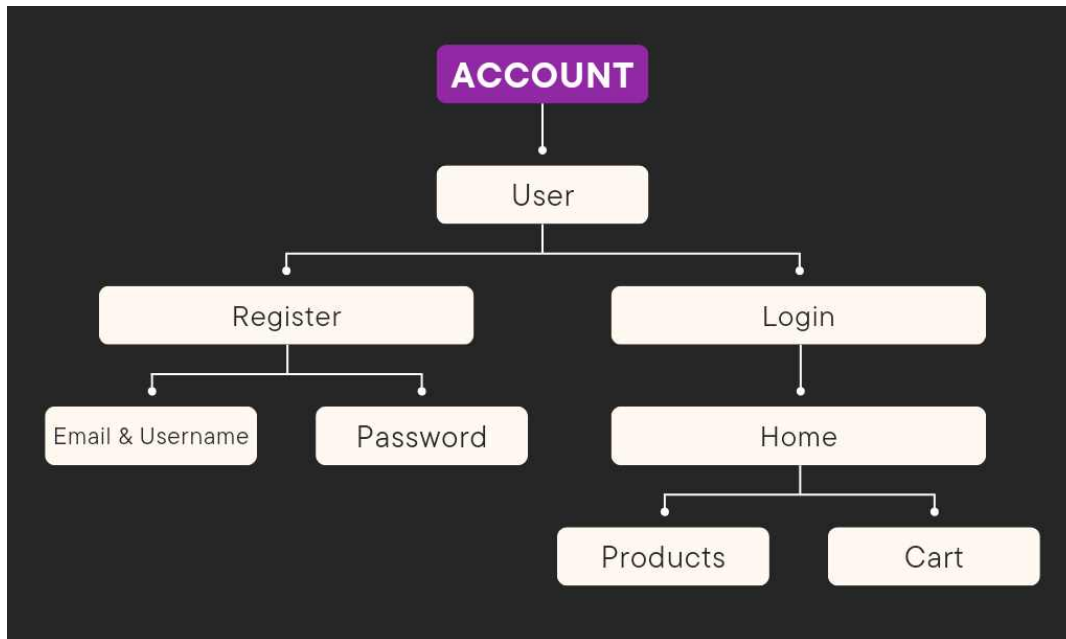
1. **About Page -** Administrator Page

2. **Account Page –** Login and Registration Page

3. **Cart Page –** Stores the items selected by the user

4. **Index Page –** Home of the website that includes some recommendations and selected ratings.

5. **Product Page –** Lists of the products and their information/description.

6. **Customer Support –** Includes the customer support page and the refund policy.

V. DESIGN AND LAYOUT

1. Color Scheme

| #e7d9e8 | #ba56d3 | #ffffff | #000000 |

2. Typography

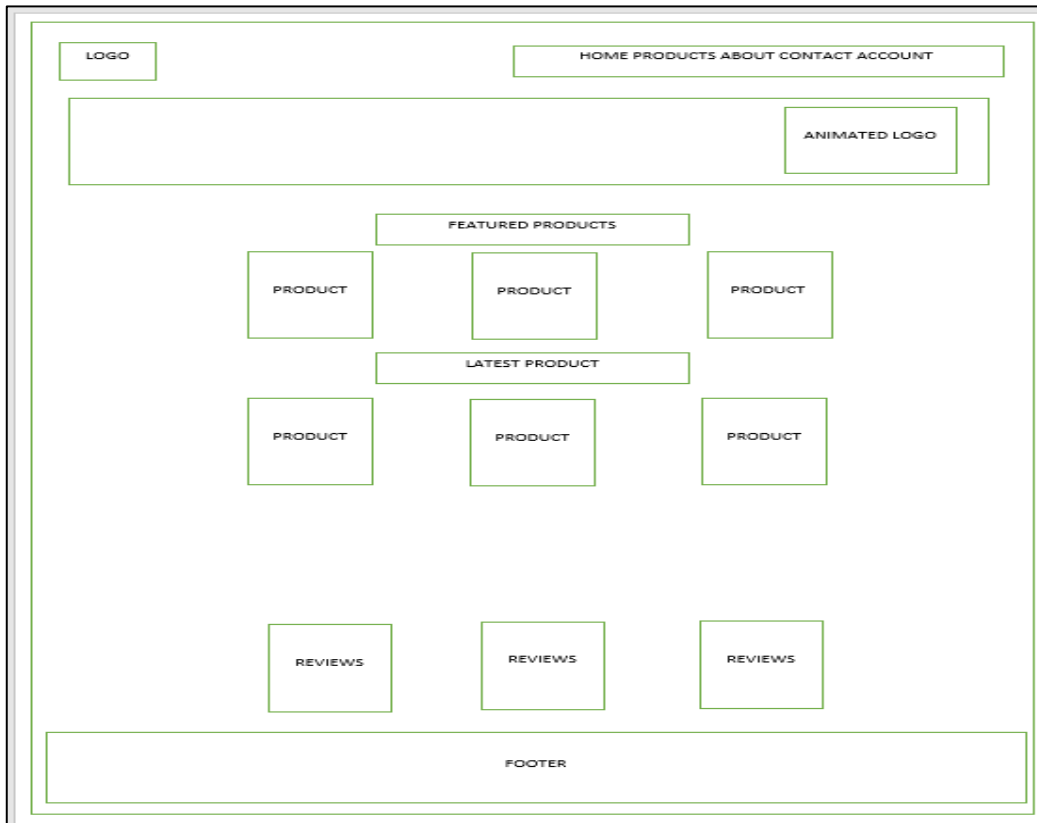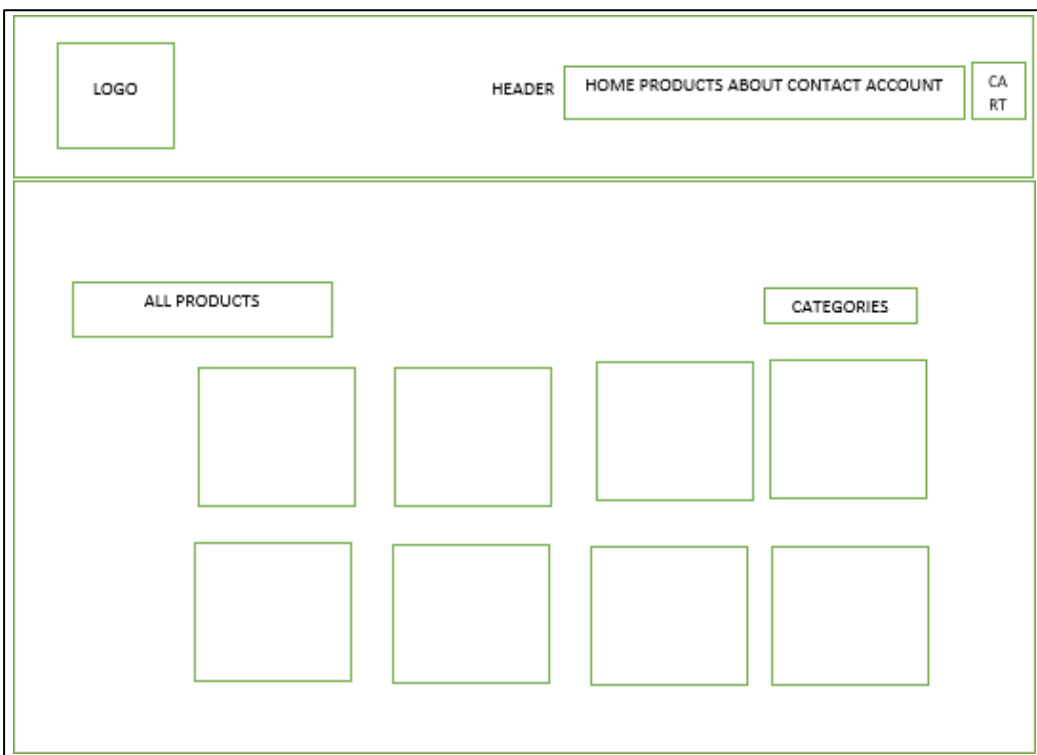   **A. Font- family**: Font Poppins

    B. Icons : Font Awesome

3. Layout
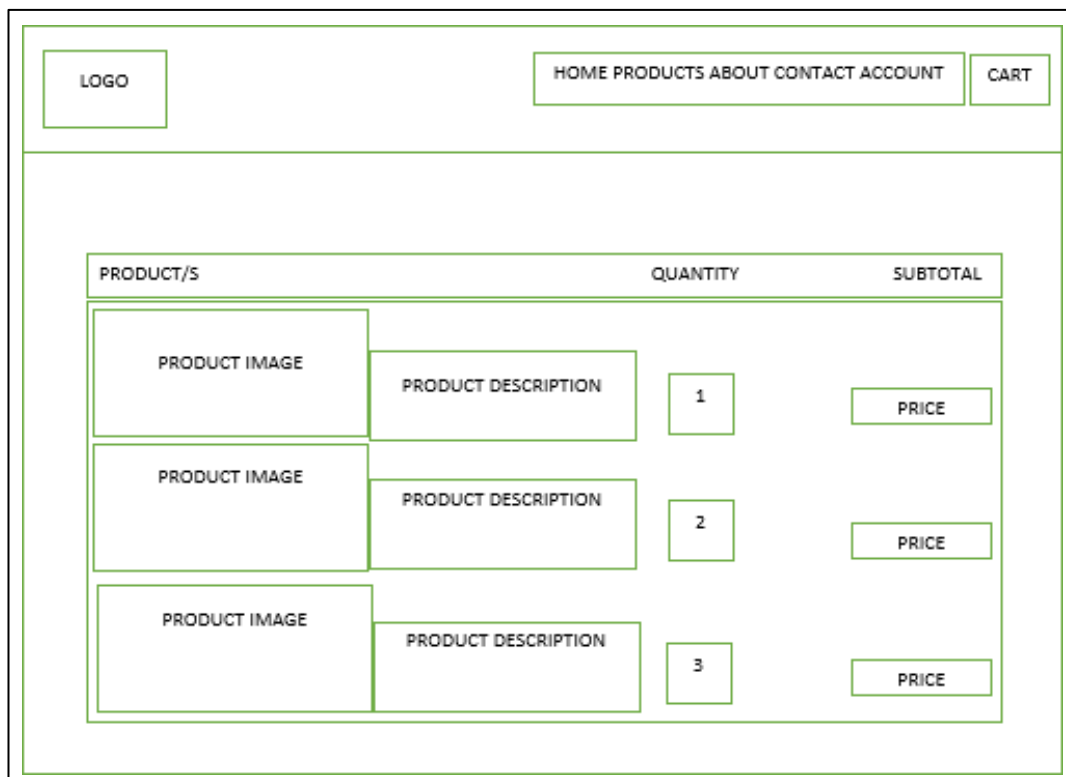

Login Page

Homepage

Product Page

Cart Page

VI. CONTENT

1. Text Content

A. Homepage

- Tagline

- Featured Products

- Product Ratings

- Highlight Item

- Customer Reviews

B. Product Page – Item Name, Price, Item Ratings

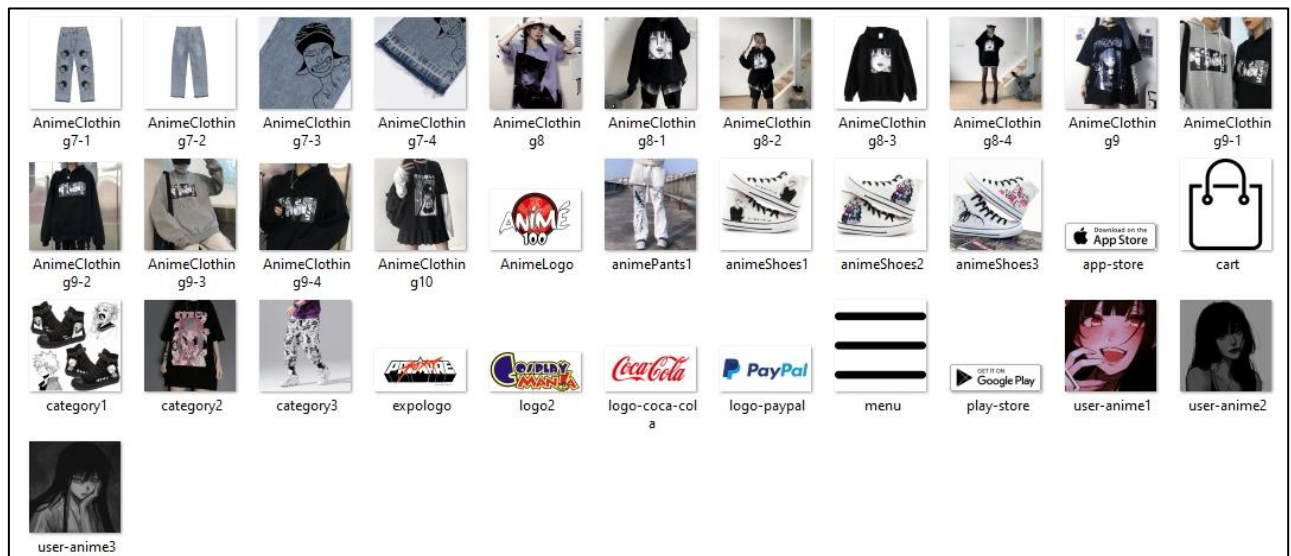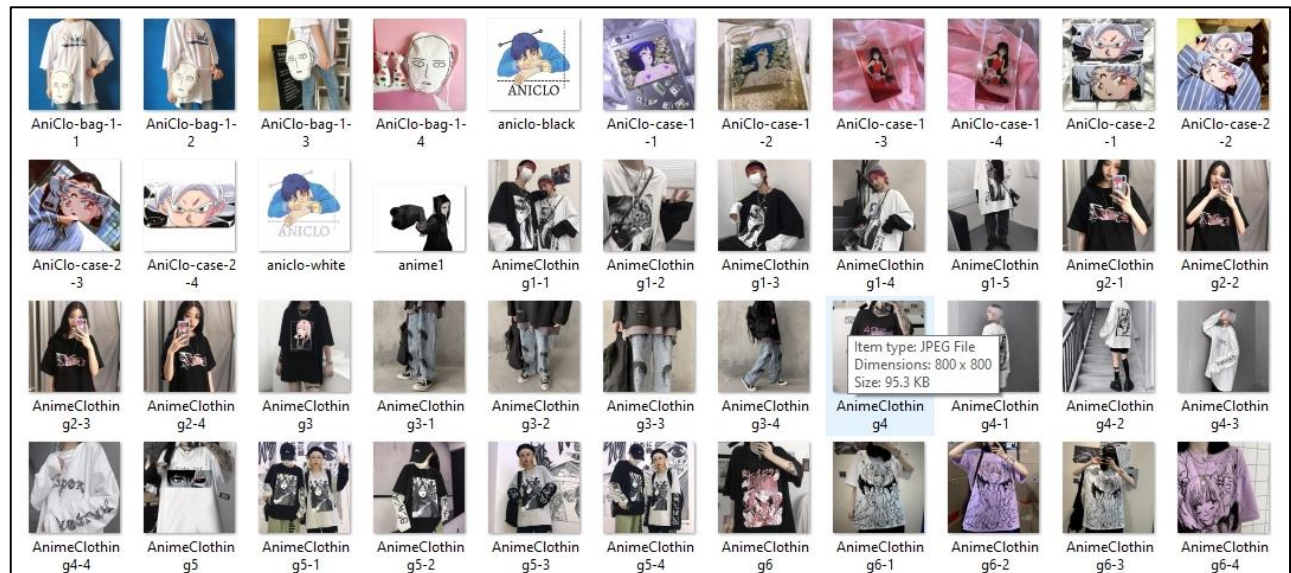**C. About Page** – Team Name and Roles

D. Contact Page – Contact Information and Customer Support

E. Account Page – Login / Register (Username, Email, Password)

F. Footer – Third Party APIs, Useful Links, and Social Media Accounts

2. Images and Media

AniClo-bag-1-1 · AniClo-bag-1-2 · AniClo-bag-1-3 · AniClo-bag-1-4 · aniclo-black · AniClo-case-1-1 · AniClo-case-1-2 · AniClo-case-1-3 · AniClo-case-1-4 · AniClo-case-2-1 · AniClo-case-2-2

AniClo-case-2-3 · AniClo-case-2-4 · aniclo-white · anime1 · AnimeClothing1-1 · AnimeClothing1-2 · AnimeClothing1-3 · AnimeClothing1-4 · AnimeClothing1-5 · AnimeClothing2-1 · AnimeClothing2-2

AnimeClothing2-3 · AnimeClothing2-4 · AnimeClothing3 · AnimeClothing3-1 · AnimeClothing3-2 · AnimeClothing3-3 · AnimeClothing3-4 · AnimeClothing4 · AnimeClothing4-1 · AnimeClothing4-2 · AnimeClothing4-3

Item type: JPEG File
Dimensions: 800 x 800
Size: 95.3 KB

AnimeClothing4-4 · AnimeClothing5 · AnimeClothing5-1 · AnimeClothing5-2 · AnimeClothing5-3 · AnimeClothing5-4 · AnimeClothing6 · AnimeClothing6-1 · AnimeClothing6-2 · AnimeClothing6-3 · AnimeClothing6-4

AnimeClothing7-1 · AnimeClothing7-2 · AnimeClothing7-3 · AnimeClothing7-4 · AnimeClothing8 · AnimeClothing8-1 · AnimeClothing8-2 · AnimeClothing8-3 · AnimeClothing8-4 · AnimeClothing9 · AnimeClothing9-1

AnimeClothing9-2 · AnimeClothing9-3 · AnimeClothing9-4 · AnimeClothing10 · AnimeLogo · animePants1 · animeShoes1 · animeShoes2 · animeShoes3 · app-store · cart

category1 · category2 · category3 · expologo · logo2 · logo-coca-cola · logo-paypal · menu · play-store · user-anime1 · user-anime2

user-anime3

begino · bodota · claris · lagado · patrick · remolacio · salma

VII. FUNCTIONAL COMPONENTS

1. User Registration and Authentication – Create Account / Login Existing Account

2. Shopping Cart – Allow users to manage or track their selected items to purchase.

3. Contact Forms – Allow users to reach out for their concerns or ask for supports.

4. Interactive Features – Allow users to explore the website using other platforms such as Social Medias, Blogs and Medias.

5. Search Functionality – Allow Users to search for a specific Items in the product catalog.

VIII. DATA MANAGEMENT

1. Database Structure

A. Registered Account | Table Name: ani_register

- reg_username

- reg_email

- reg-password

#	Name	Type	Collation	Attributes	Null	Default
1	reg_username	varchar(50)	utf8mb4_general_ci		No	None
2	reg_email	varchar(50)	utf8mb4_general_ci		No	None
3	reg_password	varchar(50)	utf8mb4_general_ci		No	None

B. Inventory Sales | Table Name: cart_items

- Name

- Size

- Quantity

- Price

#	Name	Type	Collation	Attributes	Null	Default	
☐	1 id 🔑	int(11)			No	None	
☐	2 name	varchar(255)	utf8mb4_general_ci		No	None	
☐	3 size	varchar(50)	utf8mb4_general_ci		Yes	Free Size	
☐	4 quantity	int(11)			No	None	
☐	5 price	decimal(10,2)			No	None	

C. Suggestions | Table Name: Suggestions

- Name

- Email

- Suggestions

#	Name	Type	Collation	Attributes	Null	Default
1	name	varchar(200)	utf8mb4_general_ci		No	None
2	email	varchar(200)	utf8mb4_general_ci		No	None
3	suggestions	text	utf8mb4_general_ci		No	None

2. Data Flow

A. Registration: User Registration -> User Input -> Confirmation Email -> Backend -> Login -> Cart

B. Inventory: Login -> Cart -> Confirmation Email -> Backend

C. Suggestions: Login -> User Input -> Backend

3. Data Backup and Recovery Procedures

A. Data Encryption: We have implemented data encryption techniques in our database.

B. Document Backup and Recovery: We have a duplicate document of the datas.

IX. SYSTEM INTEGRATION

In our system integration process, we integrate third-party APIs and allow data interchange and integration to improve our platform's functionality . Using third-party APIs enables us to access features that caters our objectives.

One of the third-party APIs we use is EmailJS.com, which is a powerful tool for sending emails through Gmail. This connection allows us to optimise our communication operations, assuring timely and dependable delivery of critical notifications, updates, and messages to our users. Additionally, we use PayPal as our payment gateway. We provide our clients a seamless and convenient checkout experience by using PayPal's safe and widely known payment processing capabilities. This connection secures transactions and speeds up payment processing, increasing our user's satisfaction and trust in our platform.

We optimized the functionality of our system by integrating third-party APIs such as EmailJS.com and PayPal, providing our users with more value and efficiency. These interfaces provide efficient data interchange and interoperability, allowing our platform to fulfil our users' different requirements.

X. USER EXPERIENCE

For responsiveness, we utilized a flexible grid layouts and media queries to ensure a user-friendly interface across various devices. To guarantee cross-browser compatibility, we conduct thorough testing and optimization for different browsers on both desktop and mobile platforms.

To optimize the performance of our website, we conduct tests across various browsers to assess its flexibility and speed. These tests help us identify areas for improvement and ensure a seamless experience for users across different web environments.

XI. SECURITY

1. User Authentication – When it comes to making user authentication for example like other login form websites, they include strong security such as password policies and password recovery.

> **A. Password Policies** – Forcing the user to create strong passwords with length and complexity to avoid getting hacked.

> **B. Password Recover**y – If the user forgets the password or gets hacked by someone else. However, if the user knows about the information of the account, it can recover.

2. Data Encryption – Since our project has storage for data that'll protect sensitive information of all users.

> **A. Database** – It includes its database for user data, web database, and API for payments.

3.Protection Against Common Web Vulnerabilities – There are a lot of web vulnerabilities such as exploitation, injection, DDoS, etc. However, there are also ways to protect a website like firewall, pentesting, monitoring, and other more, also there are tools that can help to protect websites such as Cloudflare, Nessus, OpenVAS, Wireshark, and Burp Suite.

XII. THIRD PARTY INTEGRATIONS

For third-party integrations, we incorporate various tools to enhance the functionality and user experience of our website. This includes integrating secure payment gateways for smooth and reliable transaction. We used PayPal as our payment gateway. We provide our clients a seamless and convenient checkout experience by using PayPal's safe and widely known payment processing capabilities. This connection secures transactions and speeds up payment processing, increasing our user's satisfaction and trust in our platform.

Additionally, one of the third-party APIs we use is EmailJS.com, which is a powerful tool for sending emails through Gmail. This connection allows us to optimized our communication operations, assuring timely and dependable delivery of critical notifications, updates, and messages to our users.

Also, we enable social media sharing functionalities to promote user engagement and broaden our online reach such as Facebook, Twitter, Instagram and YouTube which are commonly used by many users. To gather valuable insights into user behavior and website performance, we integrate robust analytics tools, allowing us to make informed decisions and optimize our online presence. We will use the Google Analytics since it is free.

XIII. ADMINISTRATION

User Roles and Permissions

1. **Administrator –** has the full access for the website, can delete and update items in the shop, can view customer's orders, can delete and retrieve user accounts.
2. **Manager –** has the ability to edit the website's content only
3. **Customer Support Representative –** limited access only, can communicate with the customers in their need, can view user accounts and orders.

4. **Registered User –** has the ability to shop, browse, add to cart items, and pay.

Maintenance and Updates: We will implement a regular maintenance and updates for the website to ensure its performance and security. We will check it weekly to ensure that the website is working properly and to ensure our customer's satisfaction.

XIV. TESTING AND QUALITY ASSURANCE

We will employ different testing methods, including functional testing to ensure all features work as intended, usability testing to assess user-friendliness, performance testing to evaluate speed and responsiveness, compatibility testing to confirm cross-browser and device functionality, and security testing to identify and address vulnerabilities. Also, we will establish a robust bug tracking system to log and prioritize identified issues, facilitating efficient communication and resolution. We will have a regularly update and monitor the bug tracking system to ensure timely fixes.

XV. DEPLOYMENT

A. **Deployment Process** – Codes and other tools such as databases, web codes, etc. that are used in the project will be tested. Once the testing is successful, it is ready to deploy the project. After deployment, we will conduct continuous testing to ensure that there will be no conflict on the website. **(localhost/filename.php)**

B. **Hosting Information** – This project uses **PHPMyAdmin.- localhost//**

C. **Domain Configuration** – Since it is not free to register a DNS, we will use the localhost **(config.inc.php)**

D. **Support and Maintenance** – The website has user support like FAQs and Contacts. For maintenance, we will monitor the website performance and how users interact with the website, also we'll backup the website and database in case of system failure or data loss.

XVI. TROUBLESHOOTING

A. **Maintenance Schedule –** We will conduct a maintenance schedule, twice a week to ensure the website's functionality and performance is good.
B. **Contact Information –** For questions and assistance, you may contact the following:

1. **Salma Fae Lumaoang –** *salmapeyy@gmail.com*
2. **Patrick Gonzales -** *patrickgonzales20@gmail.com*
3. **Laurence Lagado –** *laurencelagado@gmail.com*
4. **Andrei Bodota –** *andreibodota@gmail.com*
5. **John Christopher Remolacio –** *johnchristopherremolacio@gmail.com*
6. **Lilac Erica Begino –** *lilacericabegino@gmail.com*
7. **Claris Batacandolo –** *Clarisbatacandolo@gmail.com*