Shenyang Aerospace University

Project Design Report

Project Category：Web Programming Project

Project Title：A Satay Shoes Shop Website

College: College of Computer Science

Major: Computer Science and Technology

Class: 2251520114C

Student ID: 225152011402

Student Name: Maulana Dwi Cahyono - 德维

Supervisor: Yanju Dong

Completion Date: Dec. 13, 2024

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Shenyang Aerospace University** | | | | | | |
| **Task Specification for Project** | | | | | | |
| **Project Name** | Web Programming Project | | | | **Major** | Computer Science &  Technology |
| **Student Name** | 德维 | | **Student**  **ID** | 225152011402 | **Class ID** | 2251520114C |
| **Project Title** | A Satay Shoes Shop Website | | | | | |
| **Date** | **From** Dec. 2, 2024 **To**  Dec. 17, 2024 | | | | | |
| **Contents and Requirements** | | | | | | |
| Design and develop a small website for the shop.  **Design Requirements:**   * The link menu includes home page, about us, Service/Goods, Contact us, Login, Sign up, Logout. * Have 3-layer web directory at least, be around 18 pages in size. * All images should be optimized for the web. * Use CSS for page presentation (background images, all aspects of fonts, colors and, where possible, layout) * Demonstrate a 3-column layout on at least one page (or something that requires you to practice page layout with CSS). * Include a shop logo and a site navigation that is just a simple list with some great style. * Include a simple contact form styled appropriately for the site (even though the form may not yet do anything). The contact page should include a Google map that shows the shop place. * If possible, a table used to display tabular data, such as a product list or fees and charges table. * Have a complete linked structure and consistence in page style such as color, background, font, and layout. * Includes the login and registration (sign up) page. The registered users can login to their account. And the registration can be done by following the sign up link. * Form validation should be done in Login and registration (sign up) page with JavaScript. * The login page includes a verification code. * Write the project report in accordance with the specification of course design report. | | | | | | |
| **Teacher(Signature)** | | F:\QQ_Mydocument\1074353941\Image\C2C\[VJ]N]2WJ((V$R@~OE@)%$Y.png | | | Date | December 1, 2024 |
| **Student(Signature)** | |  | | | Date | December 17, 2024 |

**Contents**

[Problem Specification 1](#_Toc453483181)

[Website Design 1](#_Toc453483182)

[Development Software 1](#_Toc453483183)

[Website Structure Diagram 1](#_Toc453483184)

[Document List 2](#_Toc453483185)

[Website Page Screenshot 4](#_Toc453483186)

[Analysis and Conclusions 11](#_Toc453483187)

[References 12](#_Toc453483188)

[Appendix A: Source Code 13](#_Toc453483189)

# Project Assignment Specification

### This project has several requirements, which can be seen below

### The link menu includes home page, about us, Service/Goods, Contact us, Login, Sign up, Logout.

### Have 3-layer web directory at least, be around 18 pages in size.

### All images should be optimized for the web.

### Use CSS for page presentation (background images, all aspects of fonts, colors and, where possible, layout)

### Demonstrate a 3-column layout on at least one page (or something that requires you to practice page layout with CSS).

### Include a shop logo and a site navigation that is just a simple list with some great style.

### Include a simple contact form styled appropriately for the site (even though the form may not yet do anything). The contact page should include a Google map that shows the shop place.

### If possible, a table used to display tabular data, such as a product list or fees and charges table.

### Have a complete linked structure and consistence in page style such as color, back- ground, font, and layout.

### Includes the login and registration (sign up) page. The registered users can login to their account. And the registration can be done by following the sign up link.

### Form validation should be done in Login and registration (sign up) page with JavaScript.

### The login page includes a verification code.

### Write the project report in accordance with the specification of course design report.

# Website Design

We should use design documents to describe the website design of the project.

## Development Software

List all the development software

Table 1: Development Software Table.

|  |  |  |  |
| --- | --- | --- | --- |
| **NO.** | **Software** | **Version** | **Purpose** |
| 1 | VSCode. | 1.95.3 | Text editor IDE or Integrated Development Environment that is used to create the website |

## Website Structure Diagram

A website is the entire site, every page, and every process that goes on in the background, coming together to create an online presentation. A small website may have a simple structure (one home page with two child pages) while a large website may have a structure so complex you need a tour guide. An Example of a Small Website Structure is shown as Figure 1.

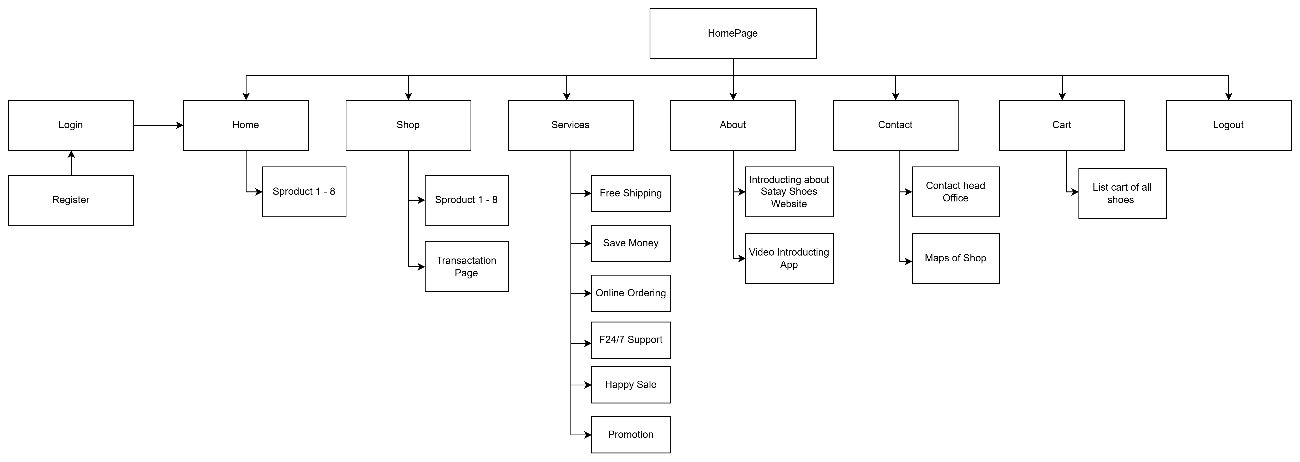


Figure 1: The website structure diagram

## Document List

List the document and its purpose used in the project.

Table 2: Document Table.

|  |  |  |
| --- | --- | --- |
| **NO.** | **Document** | **Purpose** |
| 1 | homepage.html | Serves as the main landing page, showcasing featured products, promotions, and navigation to other sections. |
| 2 | about.html | Provides company background, mission, vision, and core values to inform visitors about the business. |
| 3 | cart.html | Displays items added to the shopping cart, allowing users to review, update, and proceed to checkout. |
| 4 | comingsoon.html | Announces upcoming product launches, events, or features, creating anticipation among customers. |
| 5 | contact.html | Enables visitors to reach out for inquiries, support, or feedback through a contact form and provided contact details. |
| 6 | feedback.html | Collects customer feedback to improve products, services, and overall user experience. |
| 7 | login\_page.html | Allows registered users to sign in and access personalized features like order tracking and account management. |
| 8 | privacy\_policy.html | Outlines the company’s data collection, storage, and usage policies to ensure transparency and legal compliance. |
| 9 | register\_page.html | Enables new users to create an account by submitting their personal and login information. |
| 10 | services.html | Highlights the company’s services such as shipping, customer support, and product customization. |
| 11 | shop.html | Displays product listings, enabling users to browse, filter, and select items for purchase. |
| 12 | sproduct.html | Showcases detailed product pages for individual items, including images, descriptions, prices, and purchase options. |
| 13 | Sproduct2.html | Same with sproduct.html , only different on calculation price |
| 14 | Sproduct3.html | Same with sproduct.html , only different on calculation price |
| 15 | Sproduct4.html | Same with sproduct.html , only different on calculation price |
| 16 | Sproduct5.html | Same with sproduct.html , only different on calculation price |
| 17 | Sproduct6.html | Same with sproduct.html , only different on calculation price |
| 18 | Sproduct7.html | Same with sproduct.html , only different on calculation price |
| 19 | Sproduct8.html | Same with sproduct.html , only different on calculation price |
| 20 | Shop\_by\_brand.html | Display product by brand , only different on calculation price |
| 21 | Shop\_by\_price.html | Display product sorting by price , only different on calculation price |

Table 3: Style and Js Table.

|  |  |  |
| --- | --- | --- |
| **NO.** | **Document** | **Purpose** |
| 1 | allStyle.css | css / style for all page except login and register |
| 2 | Register.css | Css/ style for register page |
| 3 | Login.css | Css/ style for login page |
| 4 | Script.js | This file actually empty, I put js inside html file |

# Website Page Screenshot

Paste one screen shot of the execution window of each page of your running program here. For example,

1. Website Homepage

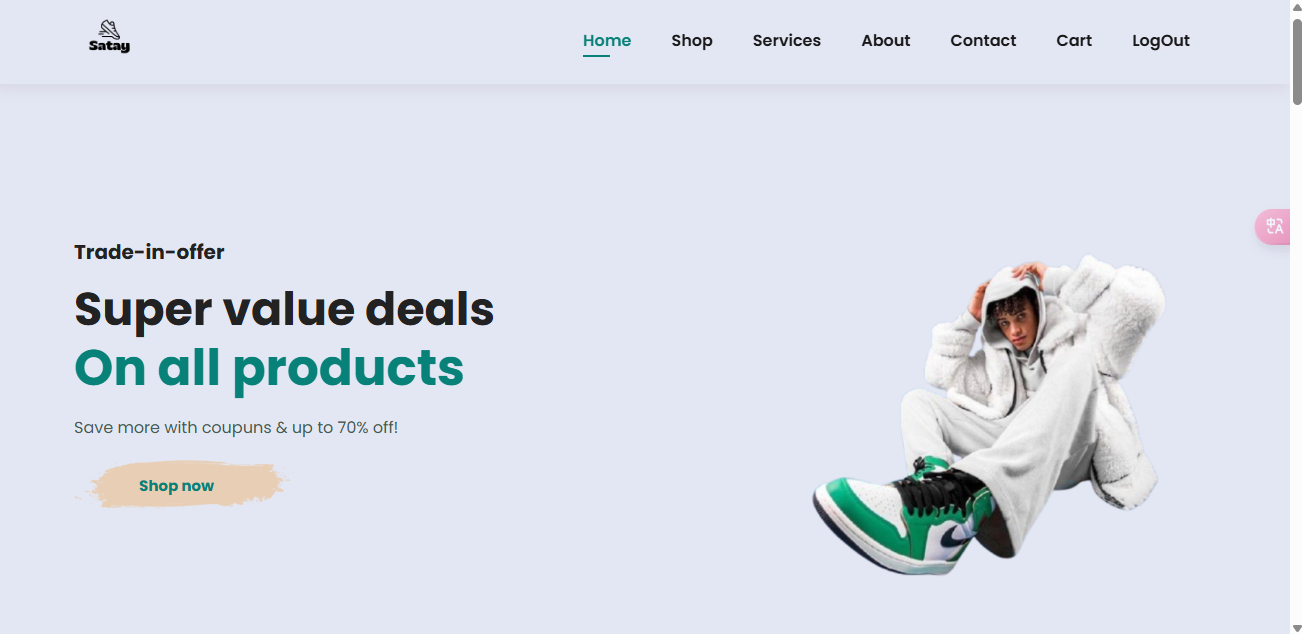


Figure 2: The website of homepage

1. Website Shop Page

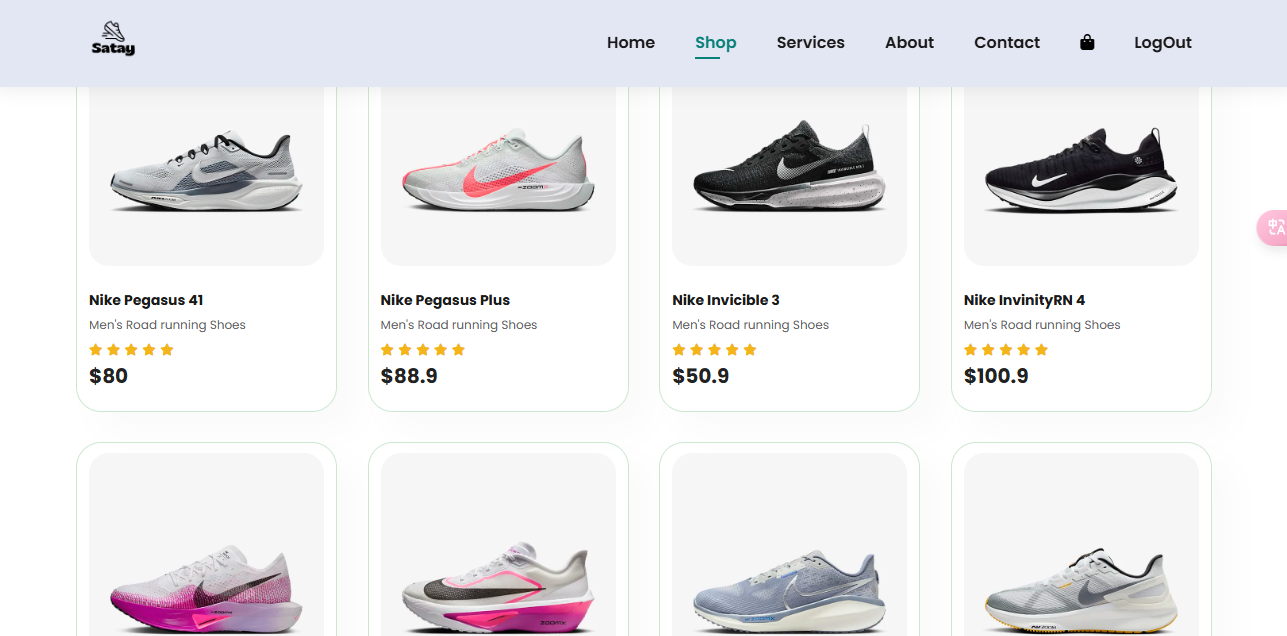


Figure 3: The website of shop page

(2.1) Website Transactation Page

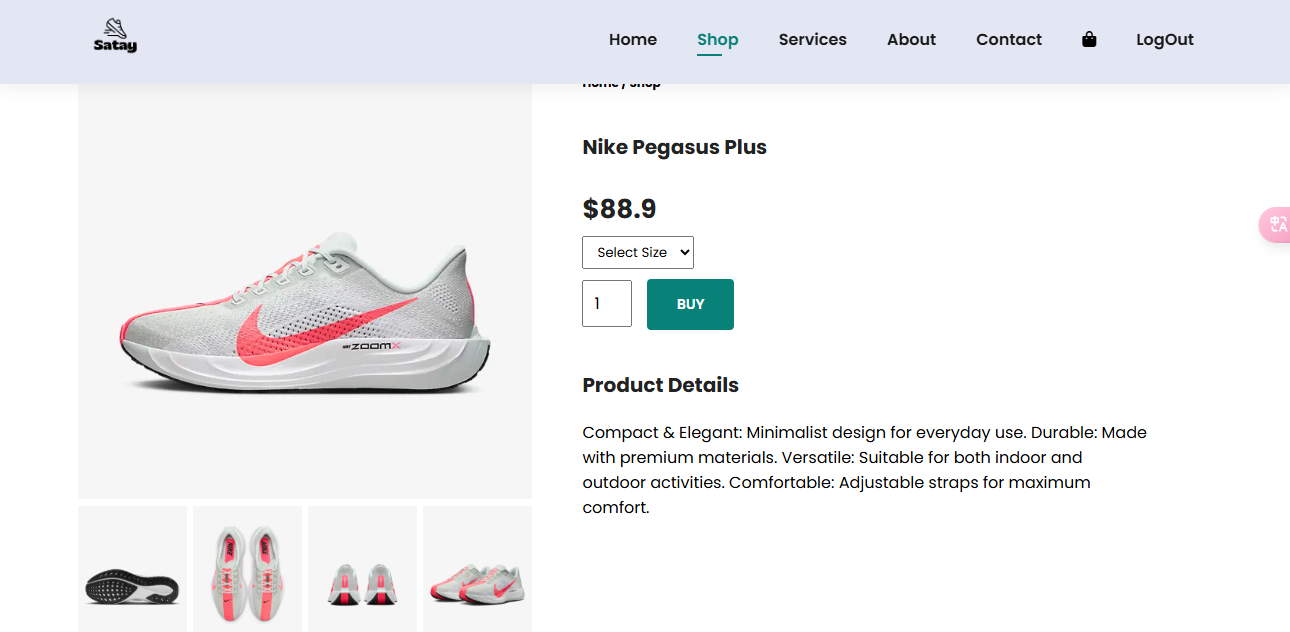


Figure 4: The website of transactation page

1. Website Services Page

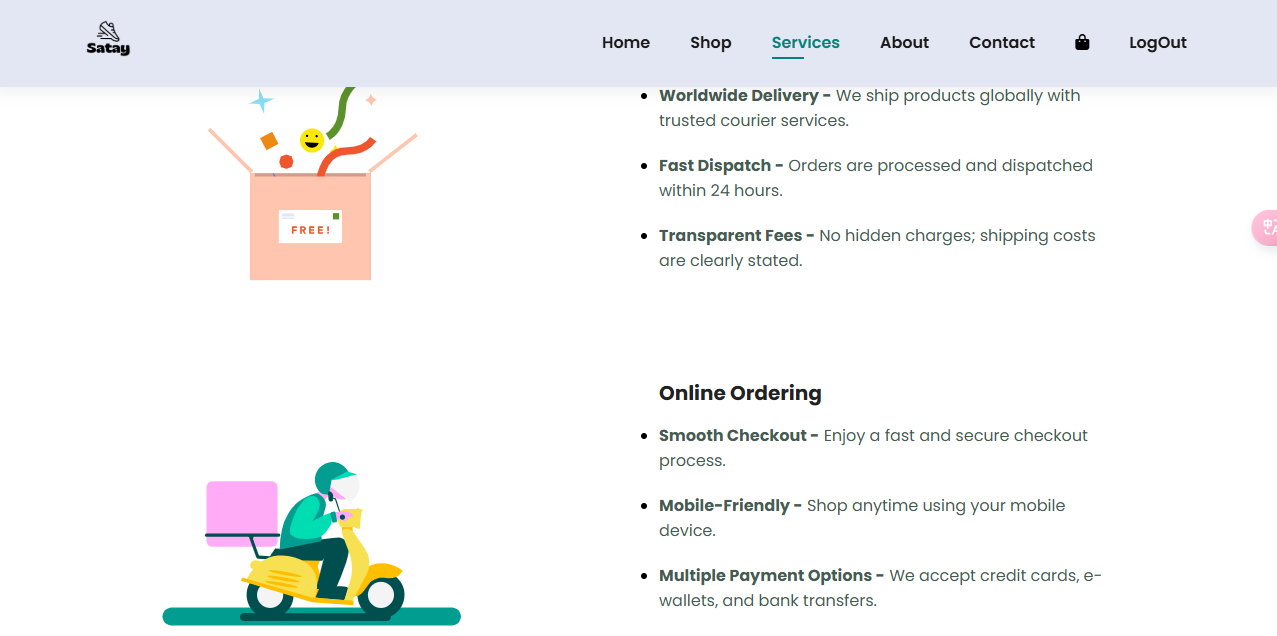


Figure 5: The website of services page

1. Website About Page

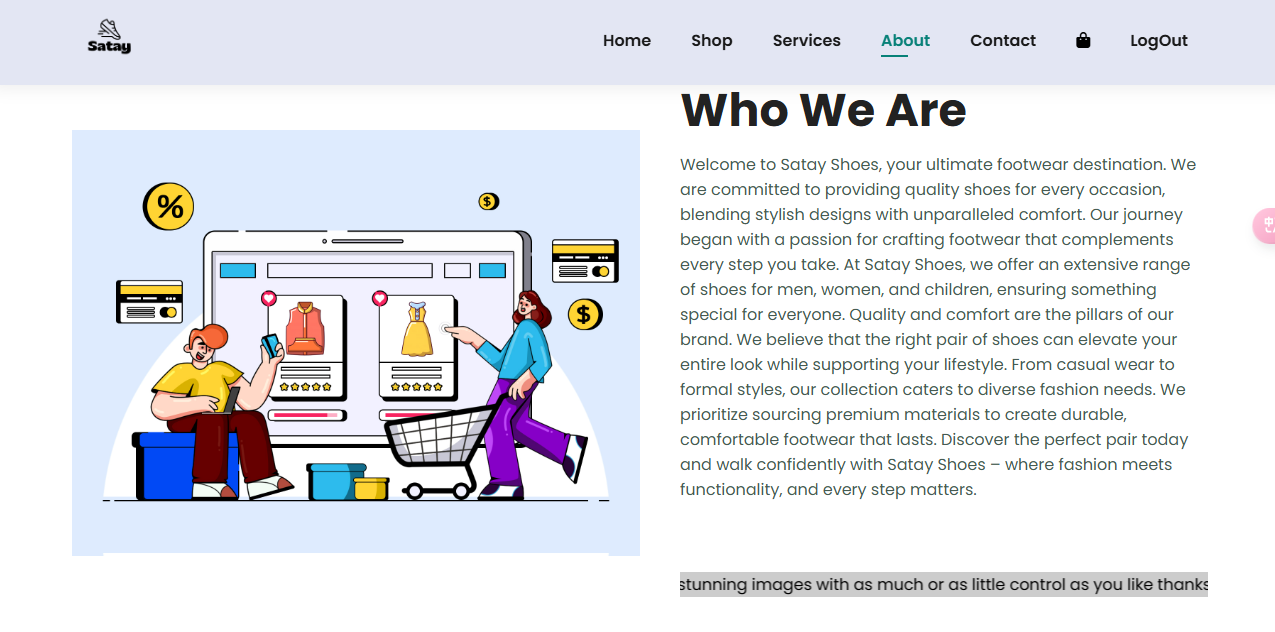


Figure 6: The website of about page

1. Website Contact Page

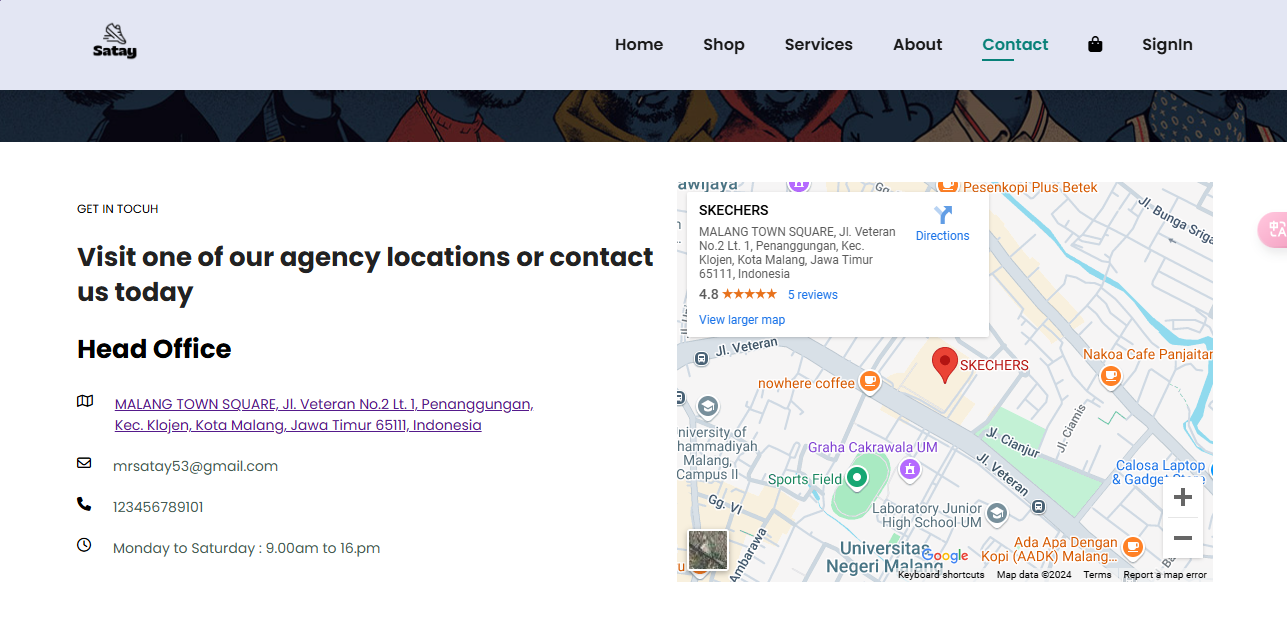


Figure 7: The website of contact page

1. Website cart Page

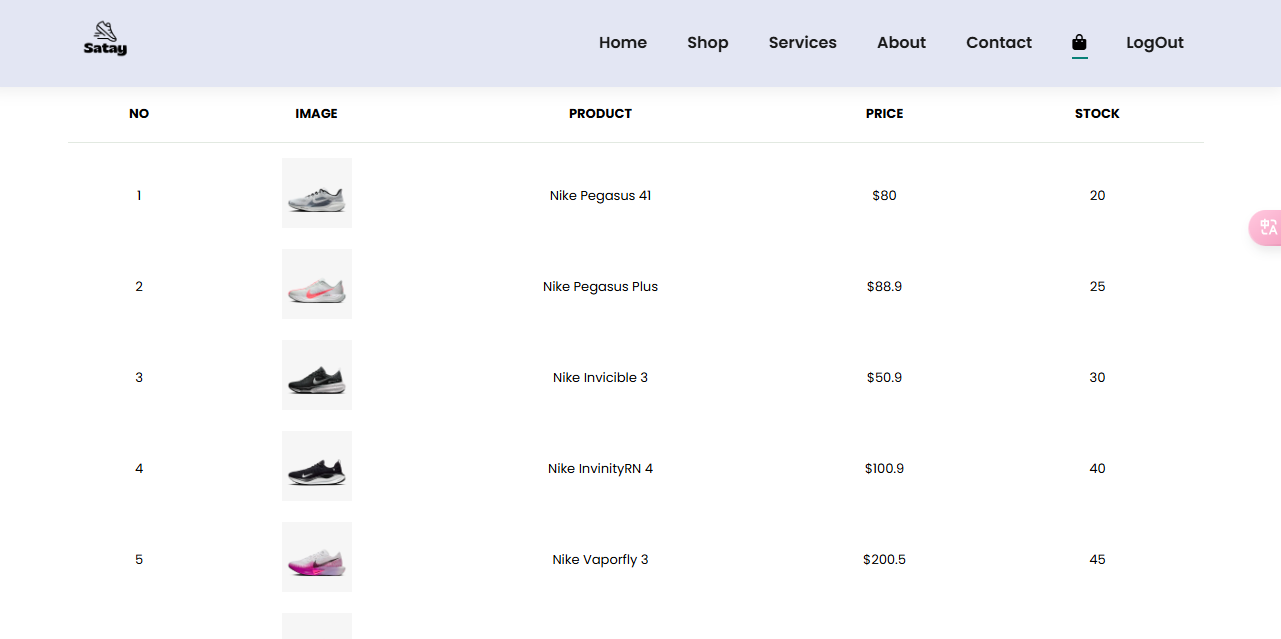


Figure 8: The website of cart page

1. Website Login Page

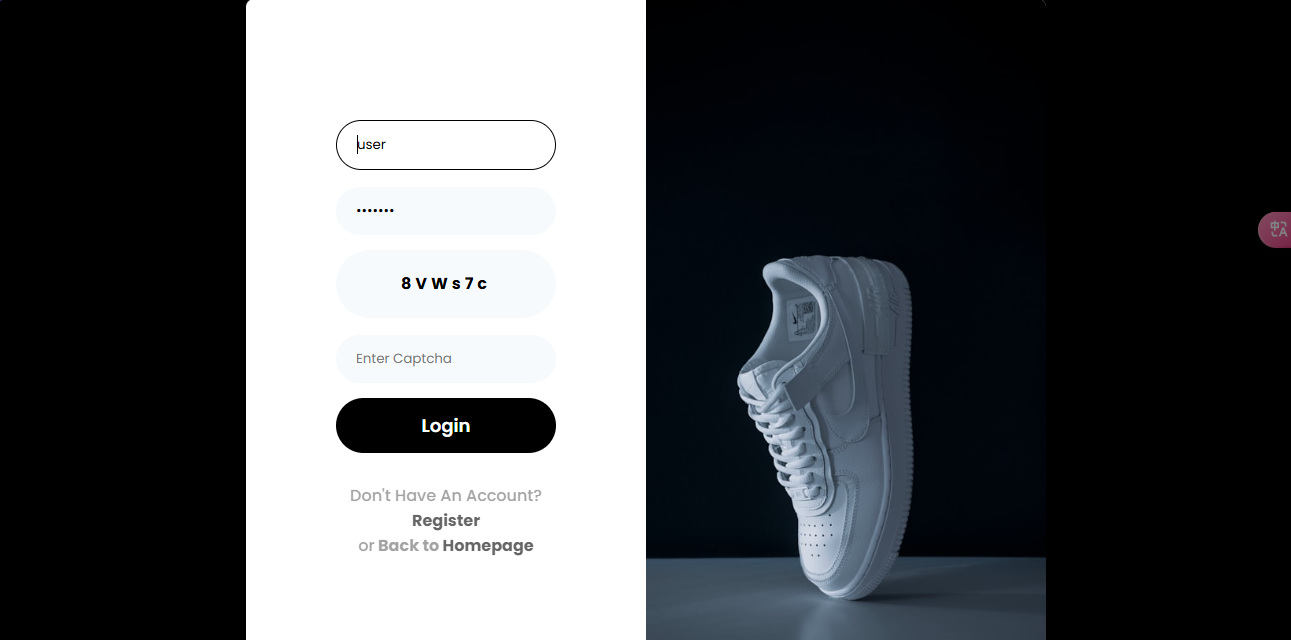


Figure 9: The website of login page

1. Website Register Page

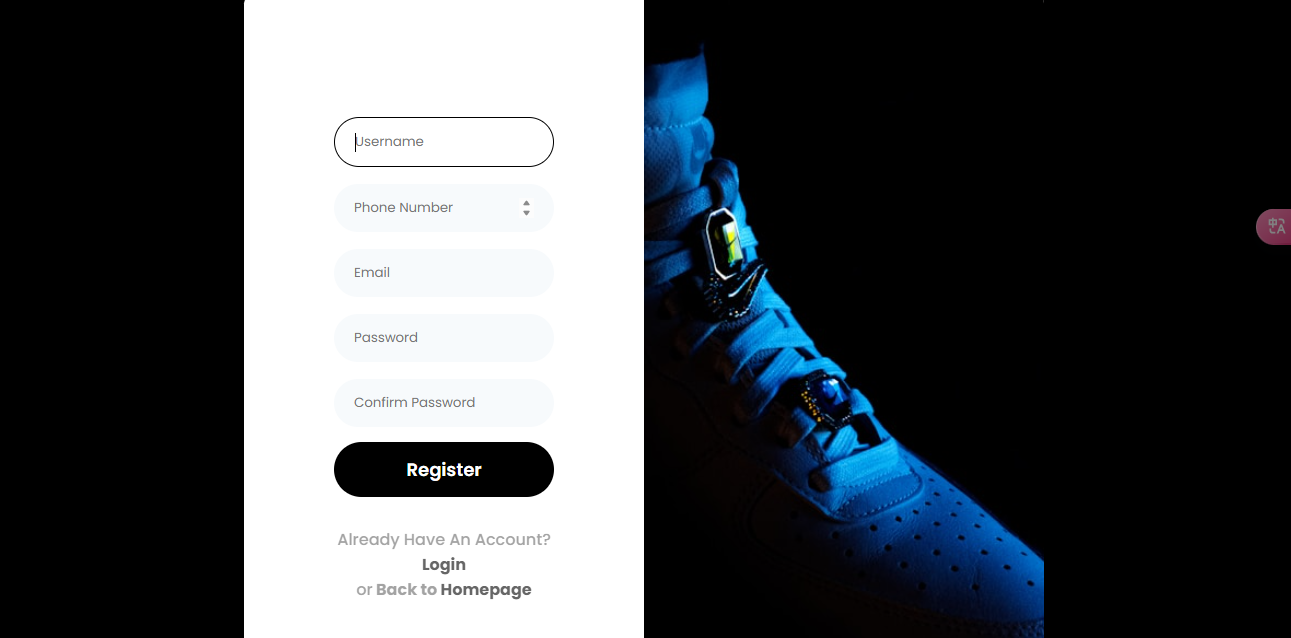


Figure 10: The sample of website register page

1. Website of feedback page

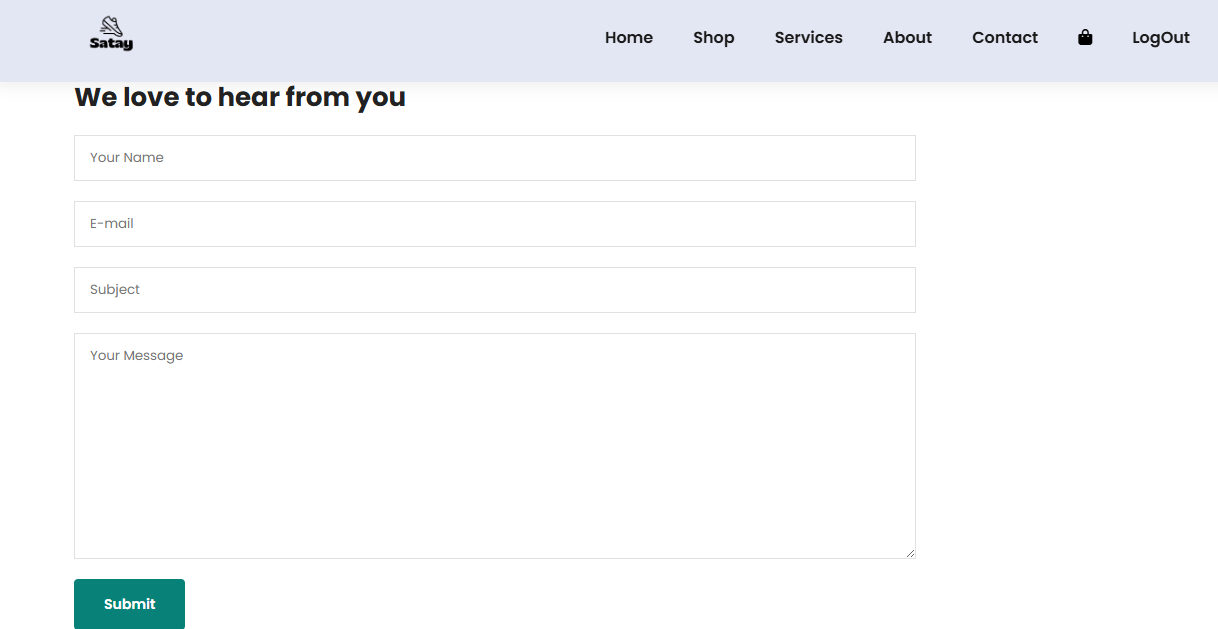


Figure 11: The sample of website giving feedback page

1. Website of Privacy Policy page

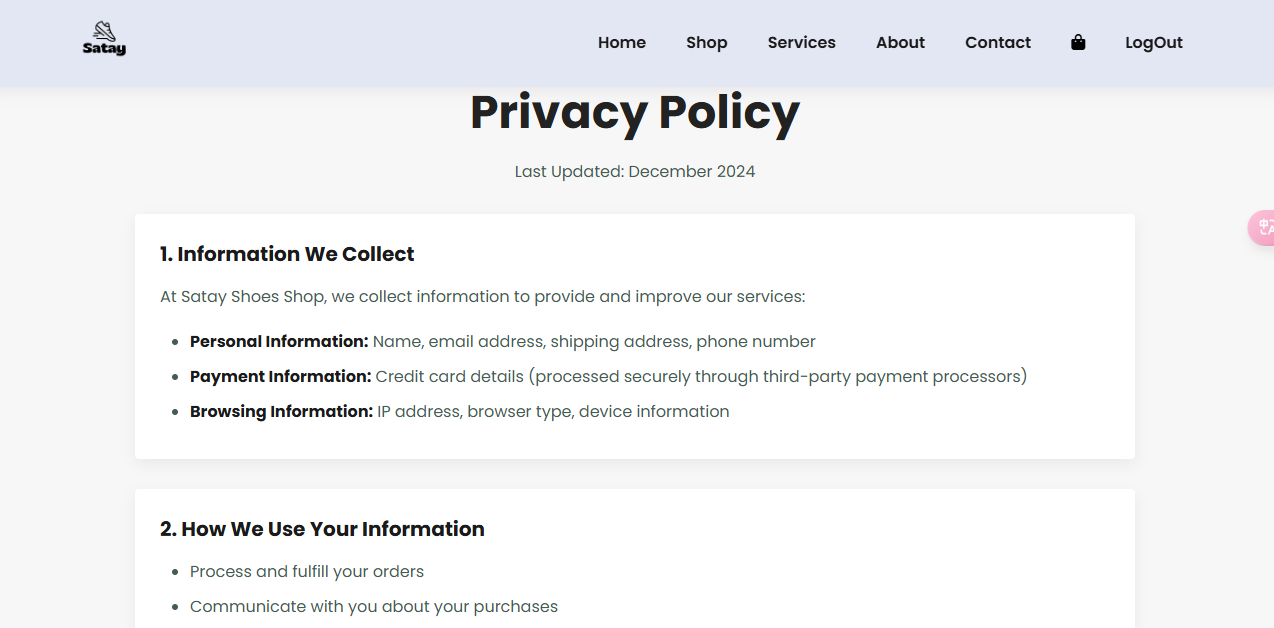


Figure 12: The sample of website privacy policy page

1. Website of “Cooming Soon” page



Figure 13: The sample of website coming soon page

1. Website of shop by brand page

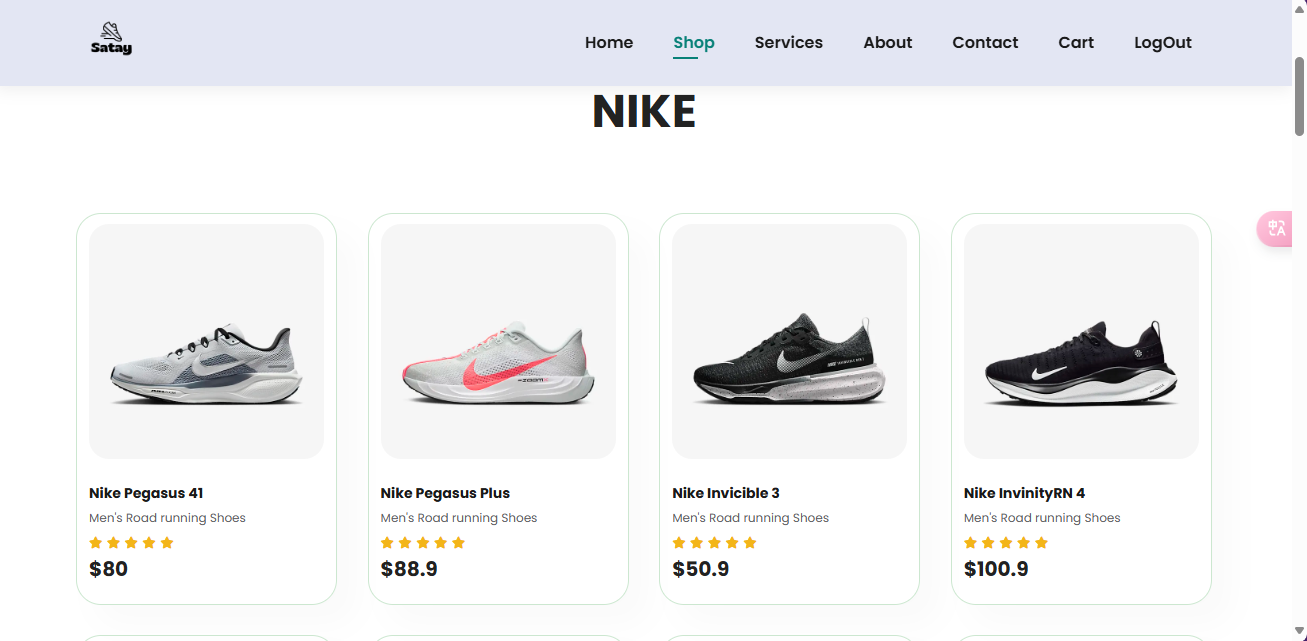


Figure 14: The sample of website Shop By Brand page

1. Website of Shop by Price page

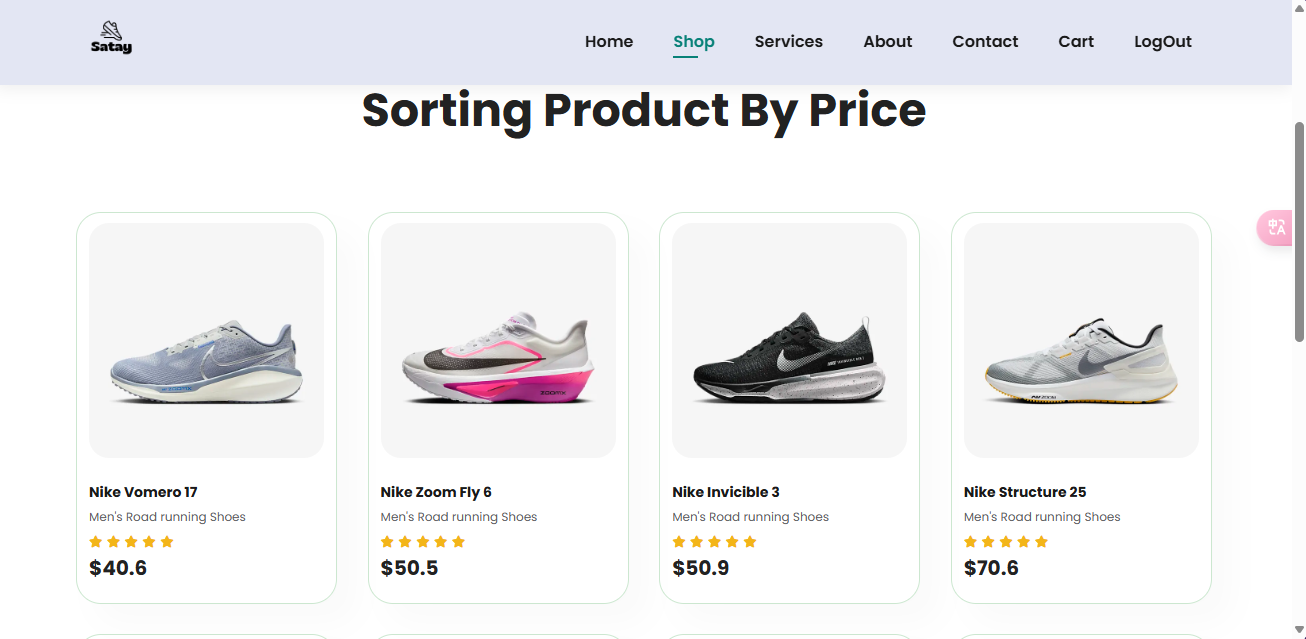


Figure 15: The sample of website Sorting Product by Price page

# Analysis and Conclusions

# The goals of the project were to create a functional and user-friendly application that meets specified requirements, including essential features like user authentication, data management, and secure system protocols. We aimed to build a scalable, well-documented, and visually appealing system while ensuring data security through encryption and secure connections. These goals were achieved by implementing key features such as user registration, login, and data management with an intuitive interface. The code was organized into modular components, and best practices were followed to maintain clarity and efficiency.

# Looking back, improvements could be made in the design, coding, and testing phases. In the design phase, conducting more extensive user research and planning a more detailed system architecture would have enhanced the project's foundation. During the coding phase, adopting test-driven development (TDD) and applying advanced design patterns could improve scalability and reduce bugs. More comprehensive testing, including usability and stress tests, would also help identify potential issues earlier. Adding features like personalized dashboards, mobile compatibility, and enhanced security measures, such as two-factor authentication, would further improve the program's performance and user experience.

# References

1. Tech2 etc, "Content Creator Web Design and Development," 2018. [Online]. Available: [https://www.youtube.com/@Tech2etc/featured]. [Accessed: Dec. 25, 2024].
2. Nike, "Collection International Branded Shoes," 2015. [Online]. Available: [https://www.nike.com/w/mens-running-shoes-37v7jznik1zy7ok].[Accessed: Dec. 25, 2024].
3. Lottiefiles, "Collection of Moving Animation," 2020. [Online]. Available: [https://app.lottiefiles.com/]. [Accessed: Dec. 25, 2024].

# Appendix A: Source Code

This section should contain a printed copy of your program, complete with all necessary documentation. Be sure your comments accurately describe what is going on in the code.

1. JS

<script>

// Wait for the DOM to load before running the script

document.addEventListener('DOMContentLoaded', function () {

// Form validation and submission handling

const form = document.querySelector('form');

const nameInput = form.querySelector('input[placeholder="Your Name"]');

const emailInput = form.querySelector('input[placeholder="E-mail"]');

const subjectInput = form.querySelector('input[placeholder="Subject"]');

const messageInput = form.querySelector('textarea');

// Handling form submission

form.addEventListener('submit', function (event) {

event.preventDefault(); // Prevent the default form submission

// Check if the fields are filled

if (!nameInput.value || !emailInput.value || !subjectInput.value || !messageInput.value) {

alert('Please fill out all fields.');

} else {

// Display a success message or log data

alert('Thank you for your feedback!');

// Optionally, you can send the data to the server using AJAX or other methods

form.reset(); // Reset form fields after submission

}

});

});

</script>

<script>

// Contoh data pengguna yang valid (biasanya berasal dari backend/database)

const validUsers = [

{ username: 'admin', password: 'admin123' },

{ username: 'user', password: 'user123' }

];

// Fungsi untuk generate kode captcha

function generateCaptcha() {

const characters = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789';

generatedCaptcha = '';

for (let i = 0; i < 6; i++) {

const randomIndex = Math.floor(Math.random() \* characters.length);

generatedCaptcha += characters[randomIndex];

}

document.getElementById('captchaCode').textContent = generatedCaptcha;

}

// Panggil fungsi saat halaman dimuat

window.onload = generateCaptcha;

function validateLogin() {

// Ambil nilai username dan password

const username = document.getElementById('username').value;

const password = document.getElementById('password').value;

const userCaptcha = document.getElementById('userCaptcha').value;

// Validasi Captcha

if (userCaptcha !== generatedCaptcha) {

alert('Wrong Captcha Code!');

generateCaptcha(); // Generate ulang captcha

return false;

}

// Validasi panjang username dan password

if (username.length < 3) {

alert('Username Must minimum 3 Character');

return false;

}

if (password.length < 6) {

alert('Password Must minimum 6 Character');

return false;

}

// Cek kecocokan username dan password

const user = validUsers.find(u =>

u.username === username && u.password === password

);

if (user) {

// Login berhasil

alert('Success Login!');

window.location.href = 'index.html'; // Redirect ke halaman utama

return true;

} else {

// Login gagal

alert('Username or Password incorrect!');

return false;

}

}

// Optional: Tambahkan event listener untuk tombol login

document.getElementById('loginForm').addEventListener('submit', function(event) {

event.preventDefault(); // Mencegah form submit otomatis

validateLogin();

});

</script>

<script>

function validateRegister() {

// Validasi Username

const username = document.getElementById('username');

if (username.value.length < 3) {

alert('Username minimum must greater than 3 letter');

username.focus();

return false;

}

// Validasi Nomor Telepon

const phoneNumber = document.getElementById('phoneNumber');

const phoneRegex = /^[0-9]{10,12}$/;

if (!phoneRegex.test(phoneNumber.value)) {

alert('phone number must 10-12 digit');

phoneNumber.focus();

return false;

}

// Validasi Email

const email = document.getElementById('email');

const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

if (!emailRegex.test(email.value)) {

alert('Email Format Not valid');

email.focus();

return false;

}

// Validasi Password

const password = document.getElementById('password');

if (password.value.length < 8) {

alert('Password must minimum 8 character');

password.focus();

return false;

}

// Validasi Kekuatan Password

const passwordRegex = /^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[A-Za-z\d@$!%\*?&]{8,}$/;

if (!passwordRegex.test(password.value)) {

alert('Password must have:\n- Uppercase\n- Lowercase\n- Number\n- Special Character');

password.focus();

return false;

}

// Validasi Konfirmasi Password

const confirmPassword = document.getElementById('confirmPassword');

if (password.value !== confirmPassword.value) {

alert('Password Confirmation Doesnt match');

confirmPassword.focus();

return false;

}

// Jika semua validasi berhasil

alert('Success Register!');

// If all validations pass, show success alert

window.location.href = "login\_page.html";

event.preventDefault(); // Mencegah submit default

return true;

}

</script>

<script>

var MainImg = document.getElementById("MainImg");

var smallimg = document.getElementsByClassName("small-img");

smallimg[0].onclick = function(){

MainImg.src = smallimg[0].src;

}

smallimg[1].onclick = function(){

MainImg.src = smallimg[1].src;

}

smallimg[2].onclick = function(){

MainImg.src = smallimg[2].src;

}

smallimg[3].onclick = function(){

MainImg.src = smallimg[3].src;

}

// JavaScript for Satay Shoes Shop

document.addEventListener("DOMContentLoaded", () => {

const mainImg = document.getElementById("MainImg");

const smallImgs = document.querySelectorAll(".small-img");

// Update main image when clicking on small images

smallImgs.forEach((img, index) => {

img.addEventListener("click", () => {

mainImg.src = img.src;

});

});

// Buy functionality

const buyBtn = document.querySelector(".normal");

buyBtn.addEventListener("click", () => {

const size = document.querySelector("select").value;

const quantity = document.querySelector("input[type='number']").value;

if (size === "Select Size" || quantity <= 0) {

alert("Please select a valid size and quantity.");

return;

}

const totalPrice = quantity \* 80;

alert(`Order Summary:\n\nProduct: Nike Pegasus 41\nSize: ${size}\nQuantity: ${quantity}\nTotal Price: $${totalPrice}\n\nThank you for your purchase!`);

});

});

</script>