Assessment 2

Declaration:

I herby certify that this material, which I now submit for assessment on the programme of study leading to the award of Ordinary Degree in Computing in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated.

Author: Luke_Douglas_b00162081 **Dated:** 24/02/2025

Author: Favour_Godson_b00163920 **Dated:** 24/02/2025

Author: Nathan_Lynch_b00166142 **Dated:** 24/02/2025

Project Overview:

King Kicks is a e-commerce website built using HTML PHP and MYSQL, Its design is to sell high end sneakers In Europe that would otherwise be hard to come by. The Software will allow users to browse products through different brands or gender filter by colour size and price add them to a cart and complete purchase . The Main Components of the system include a brands drop down a shopping cart user authentication and a admin panel for control of stock. The Website runs on laragon which provides a local development environment for PHP and MYSQL ,Customers will Use the site to browse and purchase shoes while administrators will manage Orders Stock levels and user accounts.

Document Revision:

Rev. 1.0 24/02/2025 – initial version

Scope:

The King Kicks e-commerce website will provide a platform for customers to browse, search, and purchase shoes online. The system will include core functionalities necessary for a seamless shopping experience, along with additional features to enhance usability.

Included Functionality (Required)

- **User Authentication: Customers can register log in and manage their accounts.**
- **Product Catalog: Display shoes with images descriptions prices and stock availability**
- **Shopping Cart & Checkout: Users can add products to the cart review their selections and proceed to checkout.**
- **Order Management: Customers can view their order history and admins can manage orders.**
- **Admins can add edit or remove products manage stock and handle customer orders.**
- **Guest Checkout: Customers will be able to checkout as a guest**

Excluded Functionality (Out of Scope)

- **Multi Language and currency support: The platform will only support euros and English for the foreseeable future**
- **Subscription-Based Model: The site will not offer subscription services or membership.**

Desirable Features

- **Product Reviews & Ratings: Customers can leave feedback on purchased products.**
- **Wishlist: Users can save products for future purchases.**
- **Discounts & Promotions: Admins can create and manage discount codes or special offers.**
- **A Refund Service: Customers can send a product back in order to get there money back but only if they have reasonable reason. Also refunds to be processed Manually.**
- **Mobile App Development: The project will aim to support mobile web browsing.**

Walkthrough Scenarios;

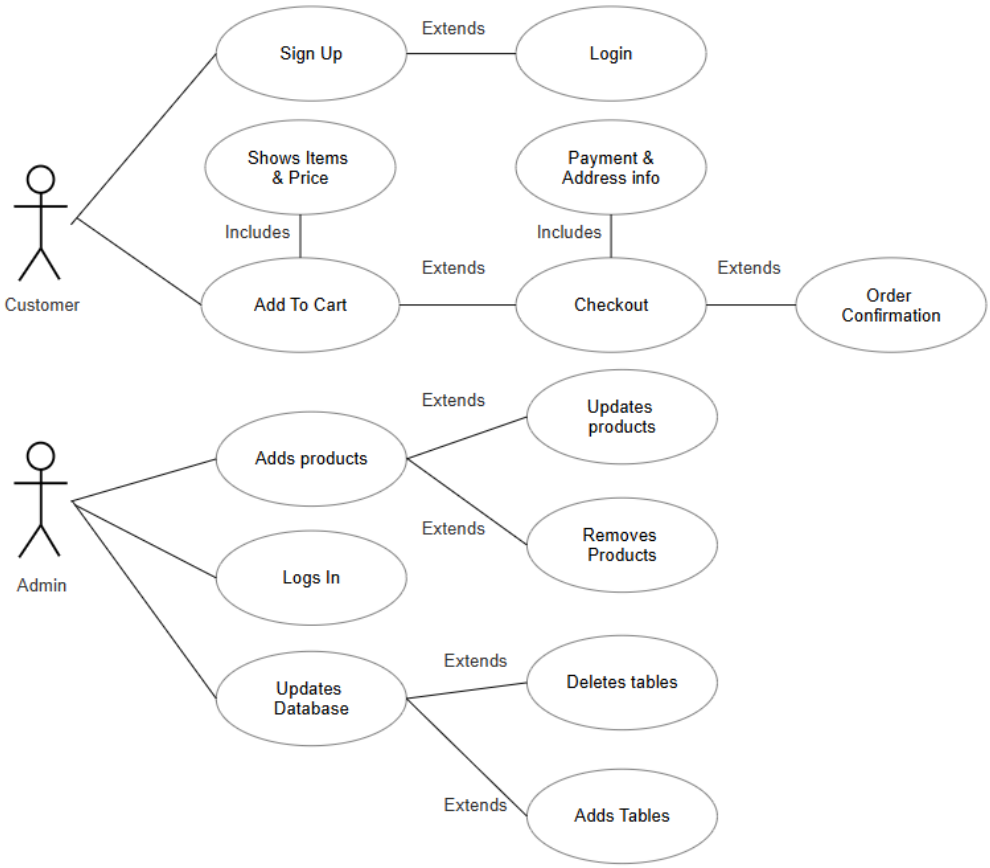
Scenario 1: Customer – Browsing & Purchasing Shoes

1. **The customer visits the King Kicks homepage and browses the available shoes.**
2. **They use the search bar or filters (size, brand, price range) to find a specific pair of shoes.**
3. **The customer clicks on a shoe to view details, including price, stock availability, and images.**
4. **They add the desired size to their shopping cart and proceed to checkout.**
5. **At checkout, they log in or register or continue as guest.**
6. **The customer enters their shipping details and selects a payment method.**
7. **After successful payment, they receive an order confirmation.**
8. **They can later log in to track their order status under "My Orders."**

Scenario 2: Admin – Managing Products & Orders

1. **The admin logs into the king kicks database.**
2. **They navigate to the product management section to add, edit, or remove products.**
3. **If a new shoe is added, they upload images, enter a description, set the price, and update stock levels.**
4. **The admin checks the list of pending orders and marks them as "Shipped" once processed.**
5. **If a customer requests a refund or return, the admin manually reviews and updates the order status.**

Software Requirements Analysis:



Use Case Specifications:

Sign-Up & Login:

The User Selects the Sign-Up option

The Sign-Up page shows up

The Sign-Up table is available

The user Inputs the relevant data to Sign up

The User than presses the Create an account button

The Website than saves the data for the new account

The Website then Diverts the page to the login page

The Login table is now available

User Inputs their account information

They press the login button

If the information is correct, it allows the user to login in

If the wrong info is inputted, it resets the table and allows them to try again

After the User logs in it diverts them to the homepage

Buying a Shoe:

After the User Has found the shoe they want they click onto its page

On this page the user will Select there shoe size

After they select there shoe size they will press add to cart

This will now be added to cart and that data will be saved to the system

The user will now open the cart page

On this page the user will press the checkout button

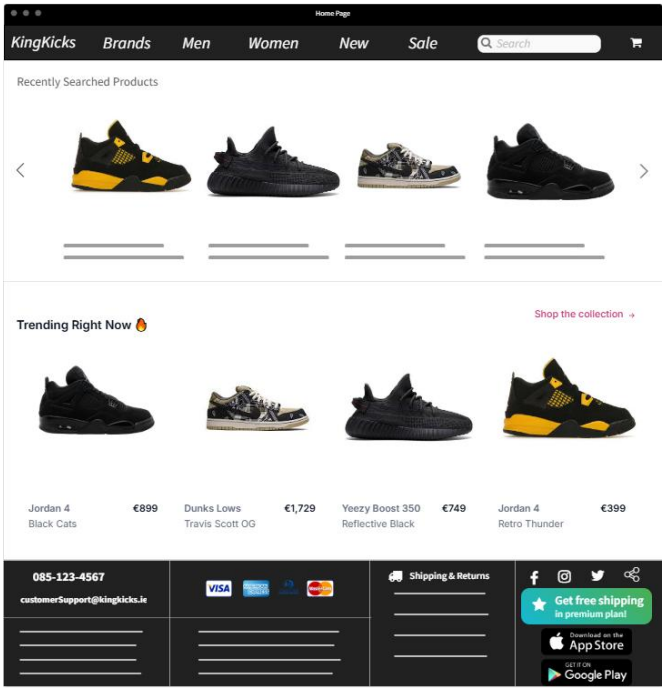
System then brings up a table for the user to input they're payment and address information

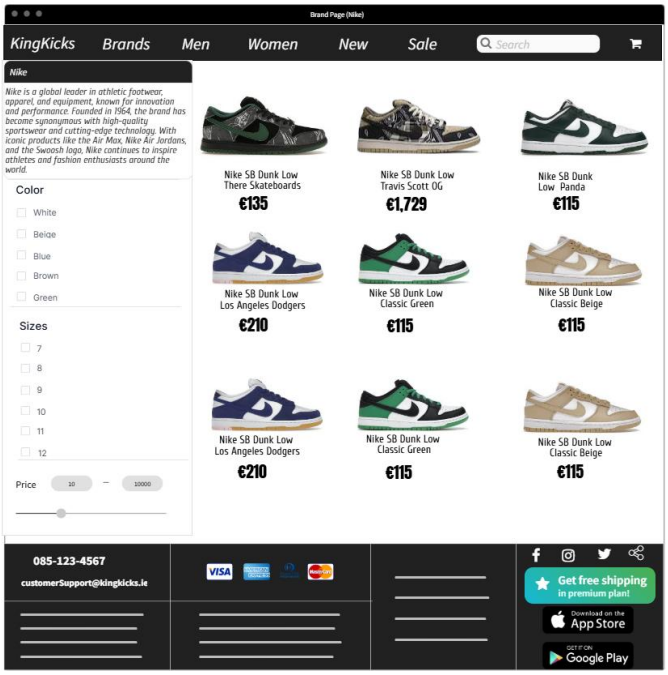
The user will confirm the Payment in their side

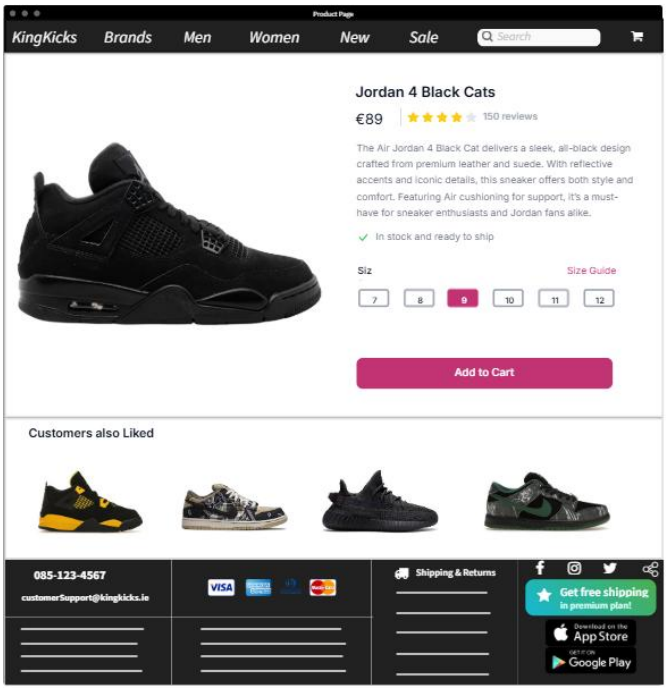
After the order has been confirmed the seller will be given the Customers address

Graphical User Interface Design:

Below are Wireframes of the home page brands page and products page providing insight on how the website will look







Technical Requirements and Feasibility:

System Models

Use Case Diagram: Illustrates customer interactions with the system, such as login, browsing products, and making purchases.

Development Language

The website will be developed using PHP for backend logic supported by HTML/CSS for structure and styling.

Some JavaScript will be used for client-side interactions Like updating the shopping cart without refreshing the page

Persistent Storage

MySQL will be used for persistent storage with tables to store user product and order information. The database will be structured with normalized relationships between users products orders and cart items.

Interface & Software / Hardware APIs

HTML/CSS/JavaScript interact with the PHP backend via HTTP requests

Forms on the website (e.g., login or checkout) send data to the backend to be processed, stored in the database, and returned as a response (confirmation, error message).

Conclusion:

In Conclusion We feel King Kicks Satisfies the customers needs and also provides a enjoyable experience for customers that use our website. The system requirements have been fulfilled and the necessary functional and non-functional aspects have been addressed including the user sign-up and login processes product management and shopping cart functionality The project is structured to support good user experience, supported by appropriate back-end functionality (PHP, MySQL) for persistent data storage.

Based on the specifications and system models outlined , we are confident that the proposed solution is very achievable. With clear Parts outlined such as the scope functional requirements and technical feasibility the project is ready to move to the next level of development and implementation