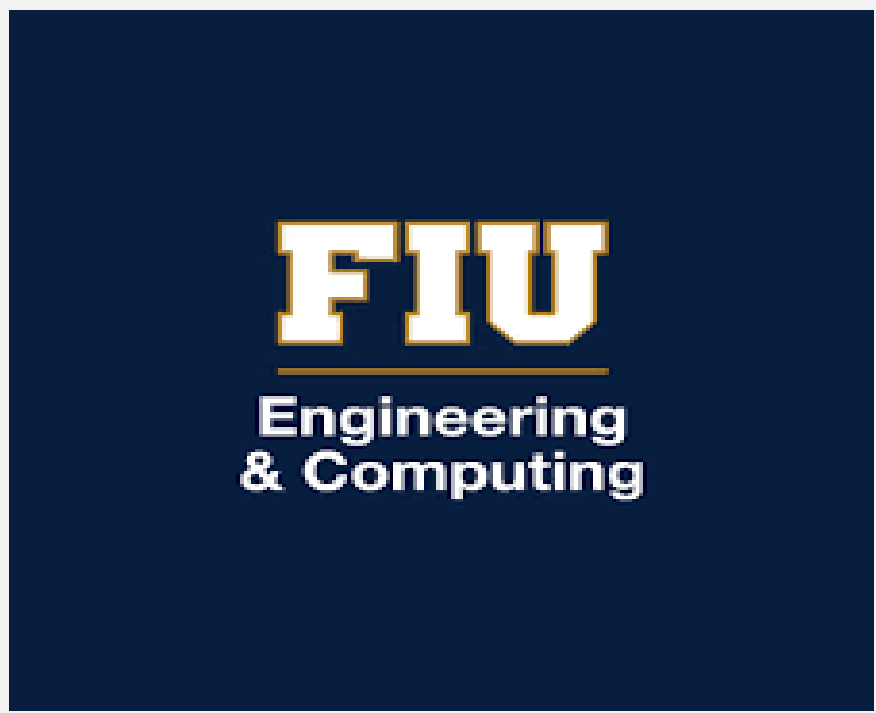




Engineering, Computing / Florida International University

Summer 2024 Senior Design Project

Design and Implementation of an E-commerce Database System

Student: Natan Farhy

Mentor: Robens Duverny, Product Owner

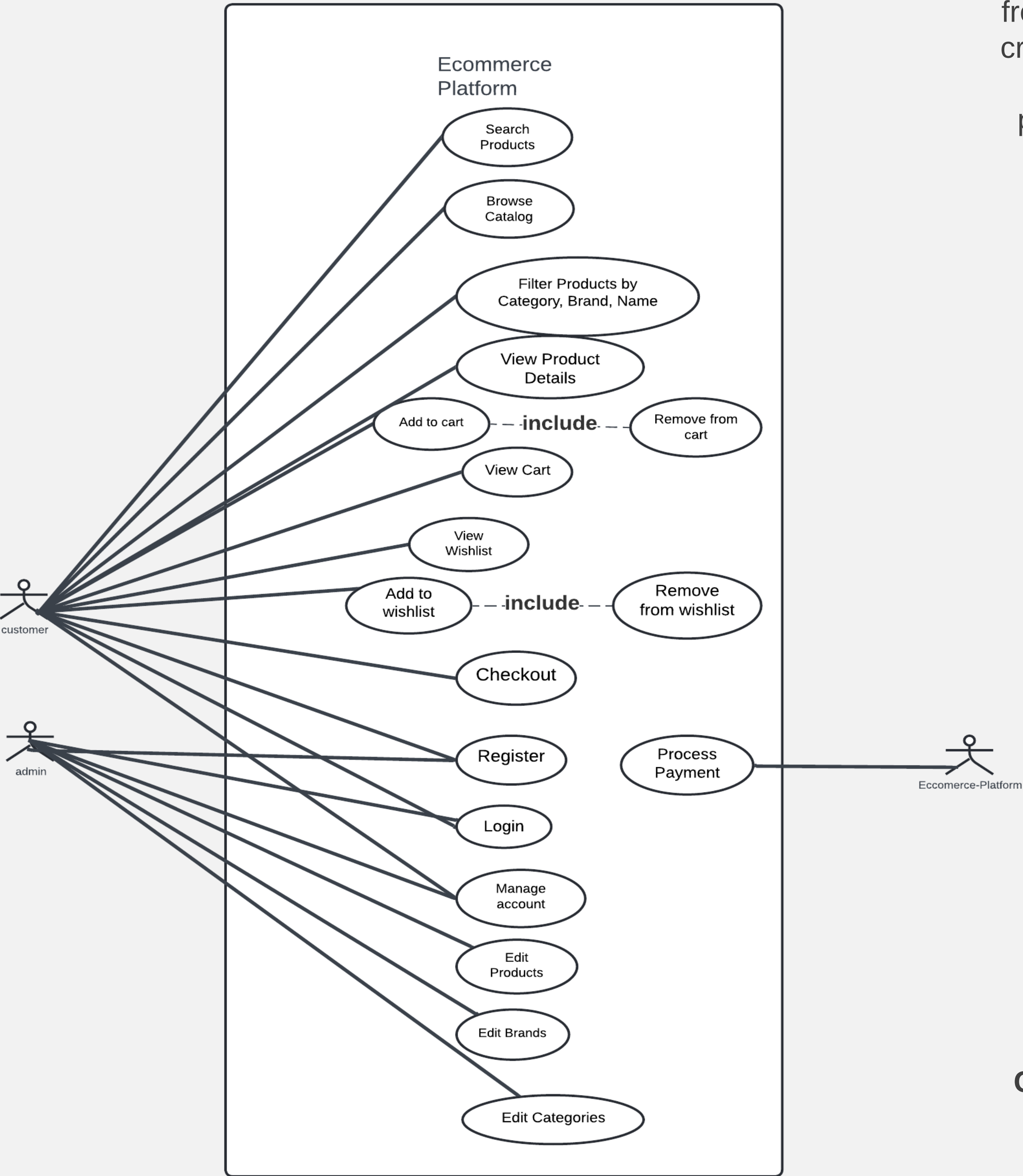
Instructor/Faculty: Masoud Sadjadi, Engineering/Computing, Florida International University

PROBLEM

We seek to create a streamlined e-commerce website that allows users to add their own items to sell on our marketplace. Using tools such as MySQL, PHP, JavaScript, and HTML, we plan to create a user-friendly interface that gives users easy access to buy products and leave reviews for others seeking the quality of said products.

SYSTEM DESIGN

Our system is designed to be fully implemented through the use of tools such as MySQL and written in PHP

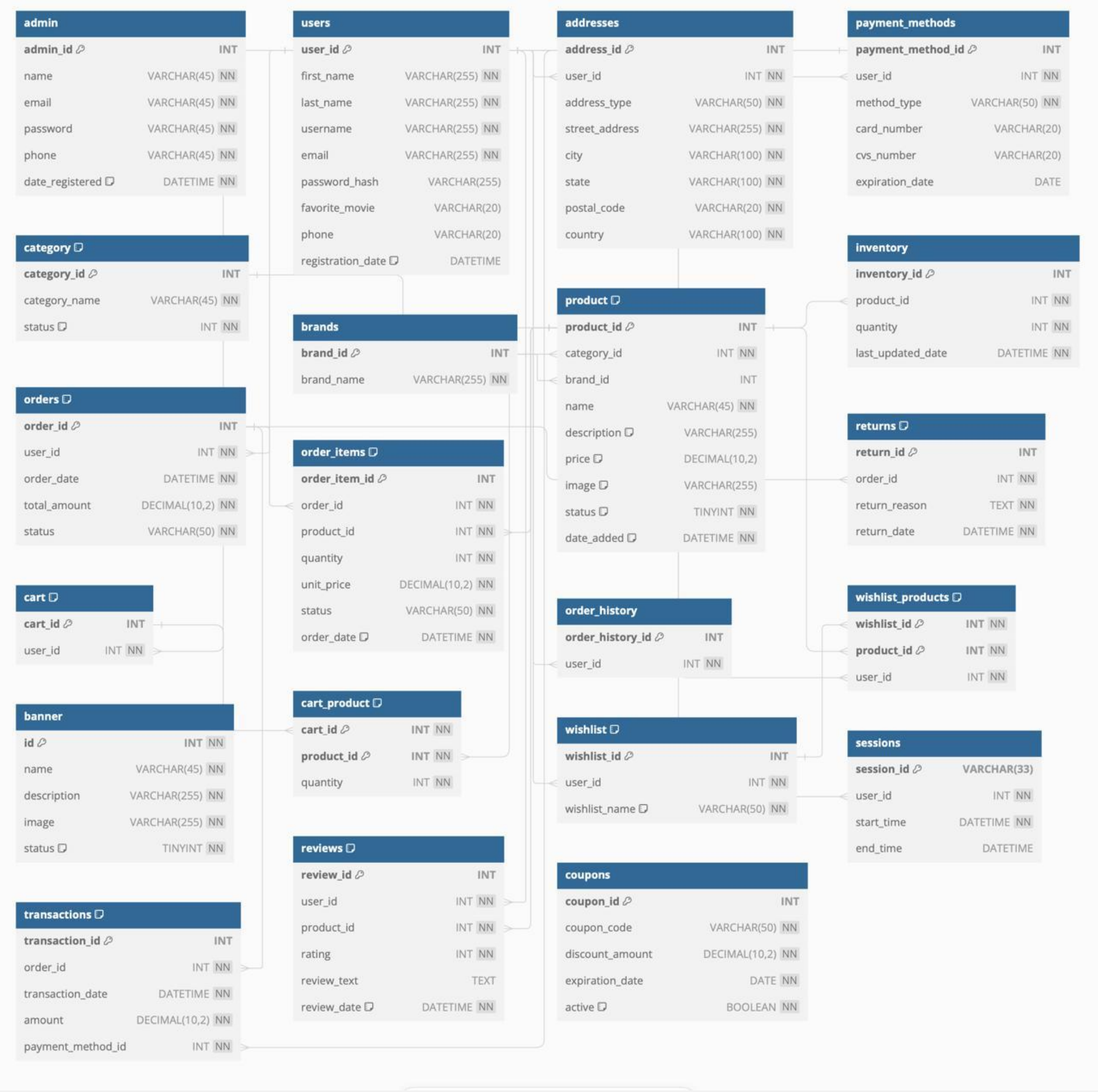


CURRENT SYSTEM

Due to a basic database and manual processes, there is a slow performance, frequent errors, and inefficient way of buying, selling, and leaving reviews on the e-commerce system. This leads to low customer satisfaction, affects operational efficiency, and scalability of the e-commerce website.

SUMMARY

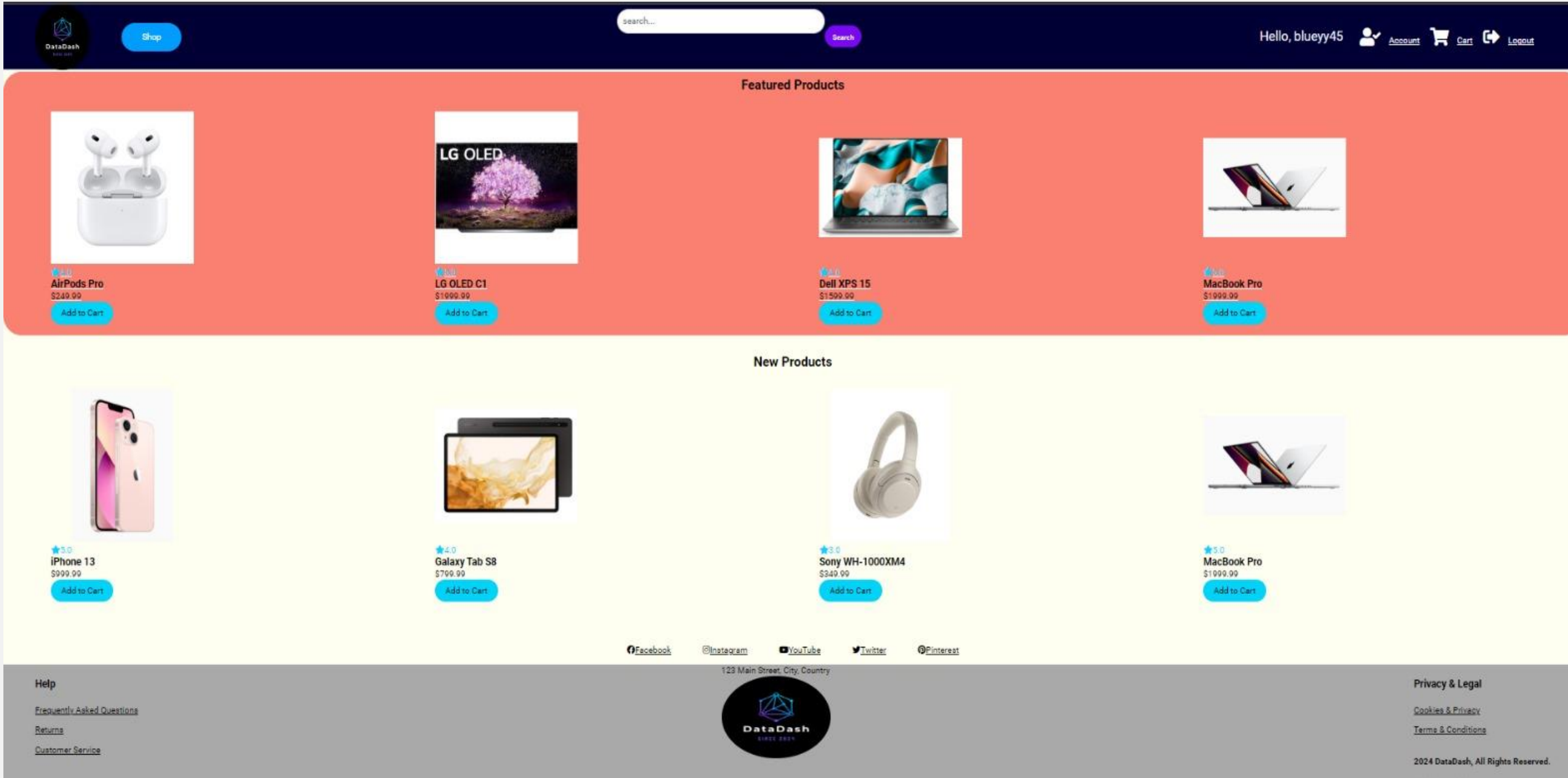
In this project I played a key role in the developmental phase of creating and designing the HTML pages as well designing parts of the database tables to accurately represent the wishes of the product owner. The most freedom and responsibility I enjoyed was designing the webpages and creating a user-friendly interface for the e-commerce system. This was done by creating scripts that notifies users when an order has been placed as well as alerting users whenever they update their account information.



REFERENCES

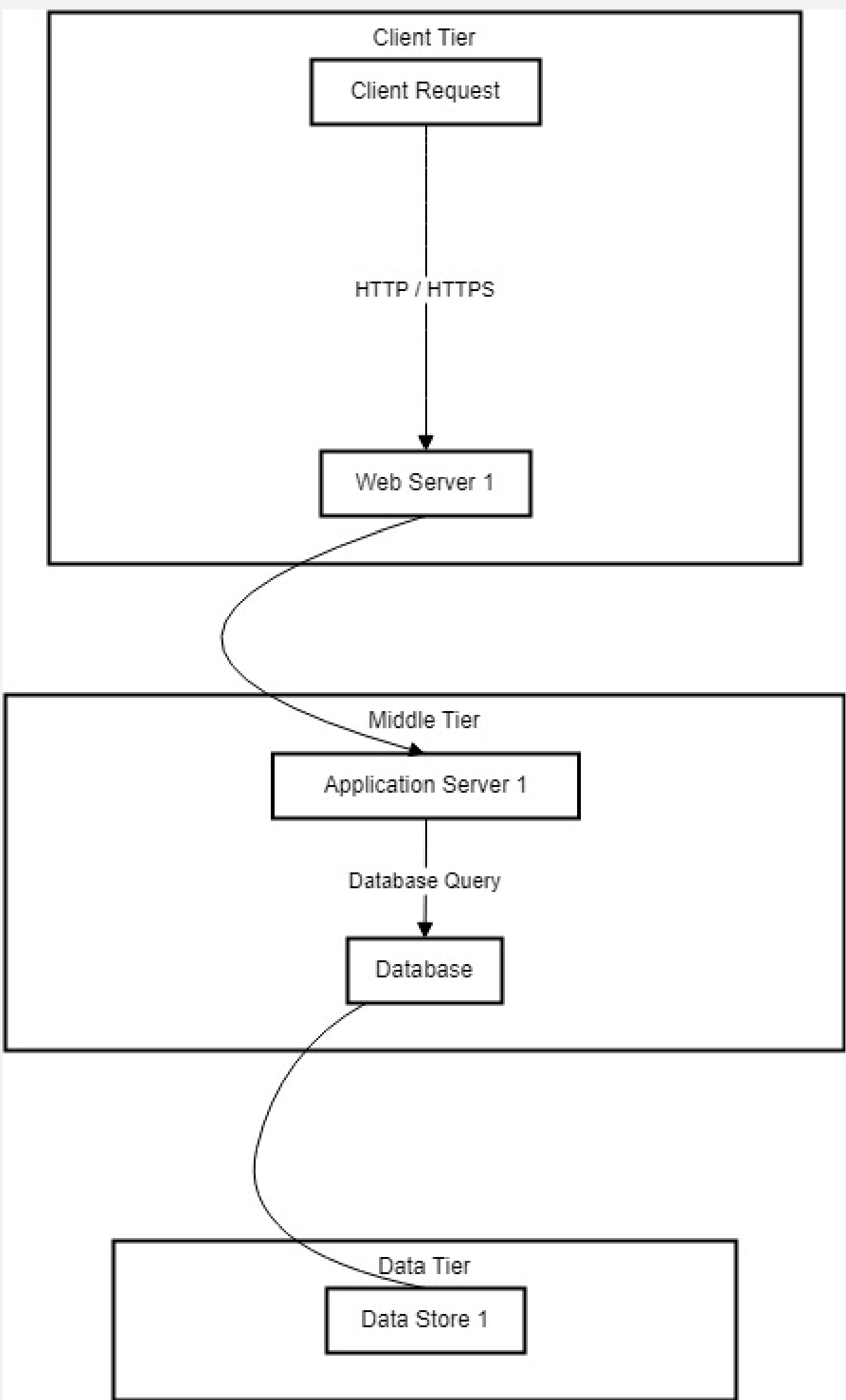
Sources: YouTube, w3schools, Stack Overflow, and many more.

Credits: Aday Devora Delgado, Daniel Jesus Gamon, Joshua Michael Doucette, Natan Farhy, Robens Duverny



IMPLEMENTATION

Implementation of login and security functionality for the frontend of the e-commerce system. The system design is a three-tier architecture with the user submitting information from the frontend side to the PHP handler that then sends the data to the database where the data is stored. Whenever a user wants to search for an item the system searches the database for the item and displays an image of the product, information, and reviews from the users.



REQUIREMENTS

MySQL, PHP, JavaScript, HTML, CSS



ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by XXXXX (name of the project sponsor: federal, state or local government, or corporate partners, where applicable). We/I thank XXXX for his/her/their assistance and mentorship that I/we received throughout the senior design project.