COLLEGE OF ENGINERING AND COMPUTER STUDIES

**OUTCOMES EVALUATION #** 2

IPTL Integrative Programming and Technologies Lab

E-Commerce Product Upload and Management System: A Front-End Development with HTML, CSS,

and JavaScript

Submitted By

Fajardo, Mark Tranquilino G. IV

Garcia, Kristian Keneth M

Course & Section

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**OUTCOMES OUTLINE**

1. **DESCRIPTION**

This activity involves developing a functional e-commerce product management interface using HTML, CSS, and JavaScript. The task focuses on creating a dynamic and interactive user interface that simulates an online product management system commonly seen in e-commerce platforms. Implement features that facilitate the upload, display, editing, deletion, and organization of product data in a client-side web application.

1. **OBJECTIVES**

• Create interactive web applications using HTML, CSS, and JavaScript.

• Validate user inputs, including image file types and sizes, to ensure proper product uploads.

• Implement dynamic features such as editing and deleting products using JavaScript.

• Design user interfaces that focus on usability, responsiveness, and interactivity.

• Manage a product list by integrating features such as sorting, searching, and filtering.

• Integrate a product rating system that allows users to rate products from 1 to 5 stars.

• Demonstrate the ability to handle user actions and provide immediate visual feedback on the interface

1. **THEORETICAL FRAMEWORK**

|  |  |  |
| --- | --- | --- |
| **INPUT** | **PROCESS** | **OUPUT** |
| User inputs text values | Validate inputs | (Invalid) Display warning message |
| User uploads image file | Validate file type and file size | (error/invalid) Display appropriate warning message |
| - | Capture text and inputs using file reader/stream | - |
| - | Store each uploaded element to array | - |
| - | Create HTML div object for each array element | Display product in tab |
| User clicks delete | Find item in array | Display confirmation: (yes) delete item from array, (no), do nothing |
| User clicks sort (price or name) | (name) compare item a to item b alphabetical order; (price) compare item a to b using int value | Rearrange product order |
| User clicks search | Capture key inputs; turn all values to lowercase and compare w/ existing array elements | Display array element that matches the current search term as the first div object |
| User clicks rating | Validate user input (not less than 5 nor greater than 5) | (valid) update HTML paragraph element rating  (invalid) display alert box |

1. **RESULTS AND DISCUSSION** (screenshots of I/O, essential codes, logic with brief discussions)

**INITIAL**

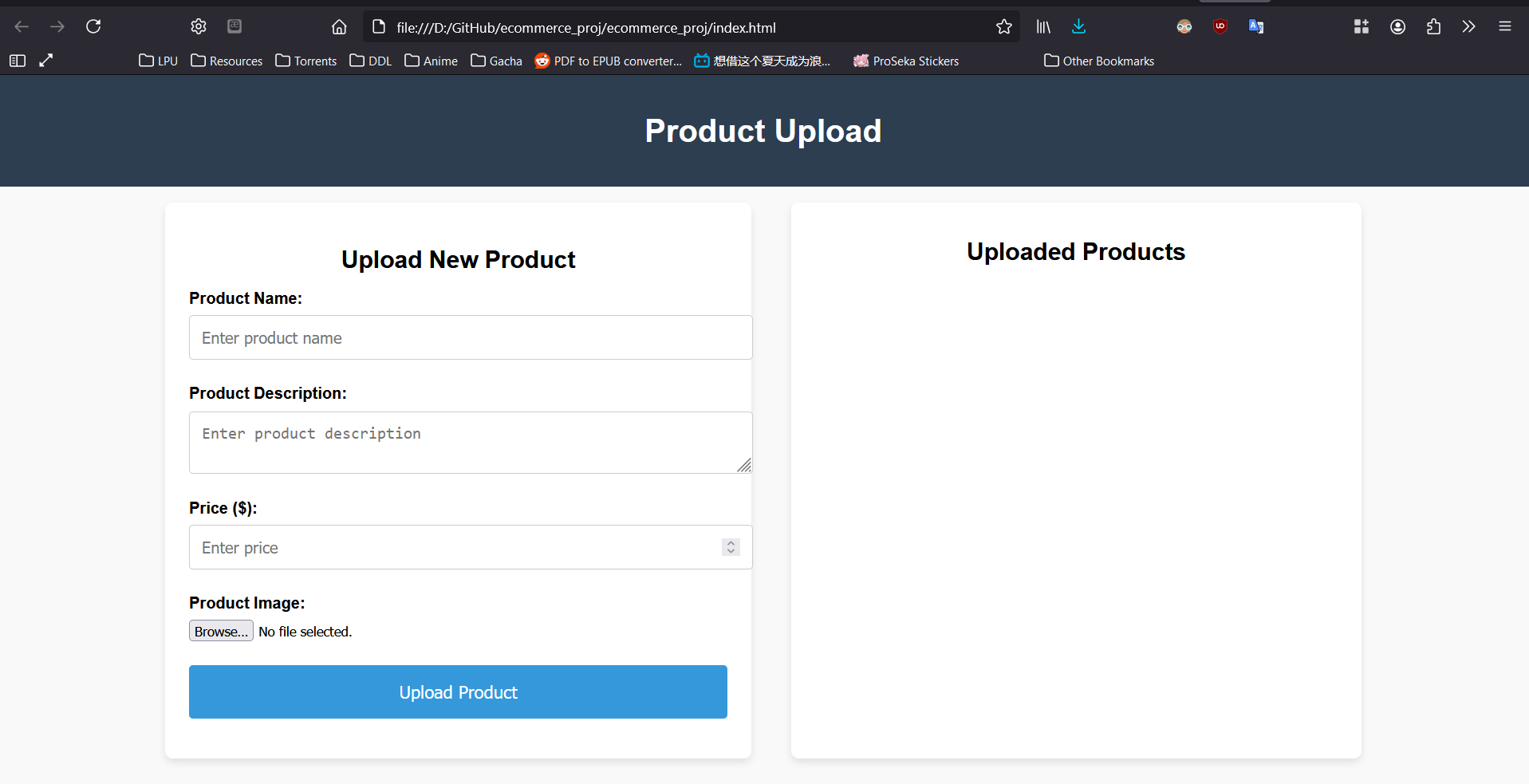


Fig. 1.0, Initial UI

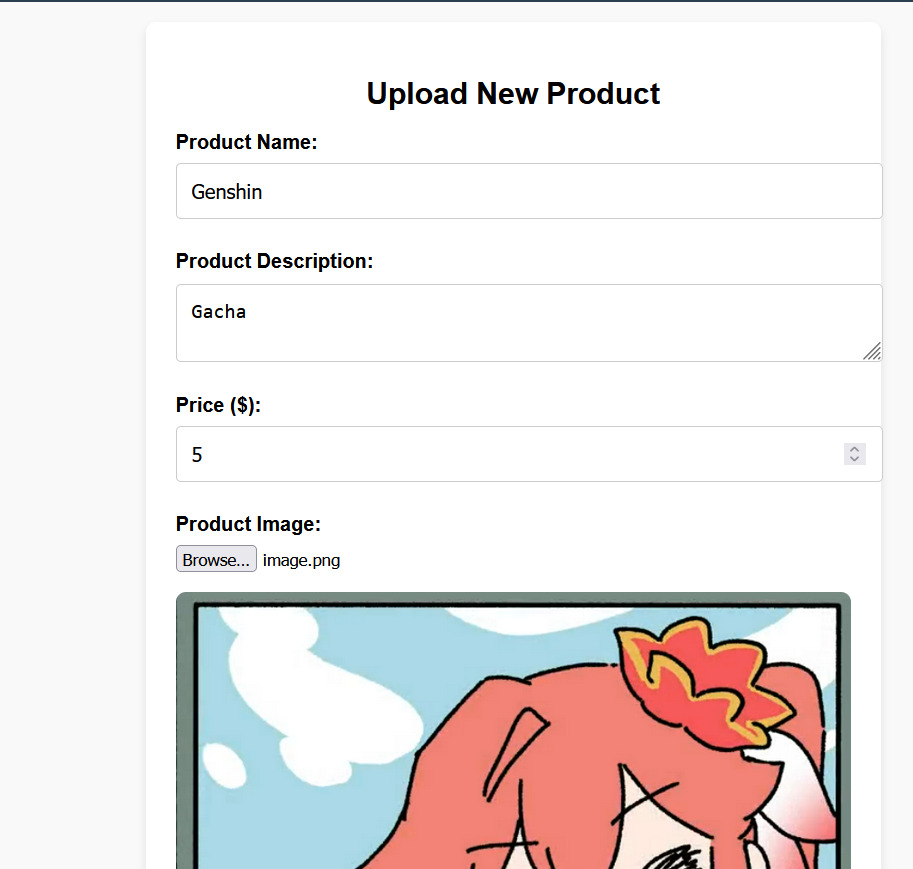


Fig. 1.1, Sample Upload

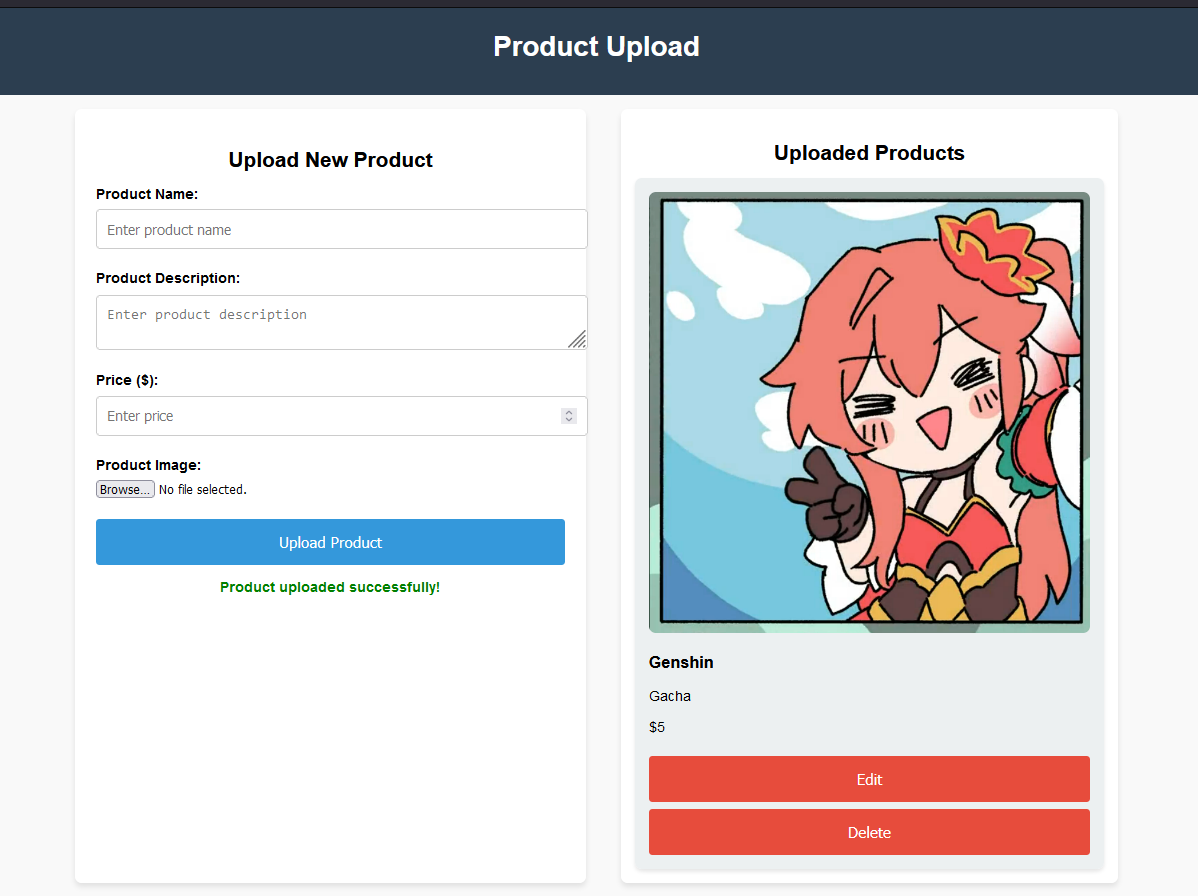


Fig 1.2, Uploaded Products

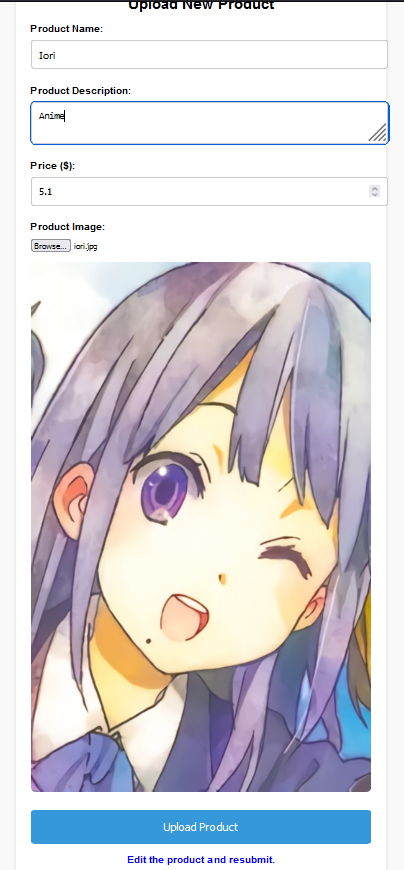


Fig. 1.3, Edited Product (Zoomed)

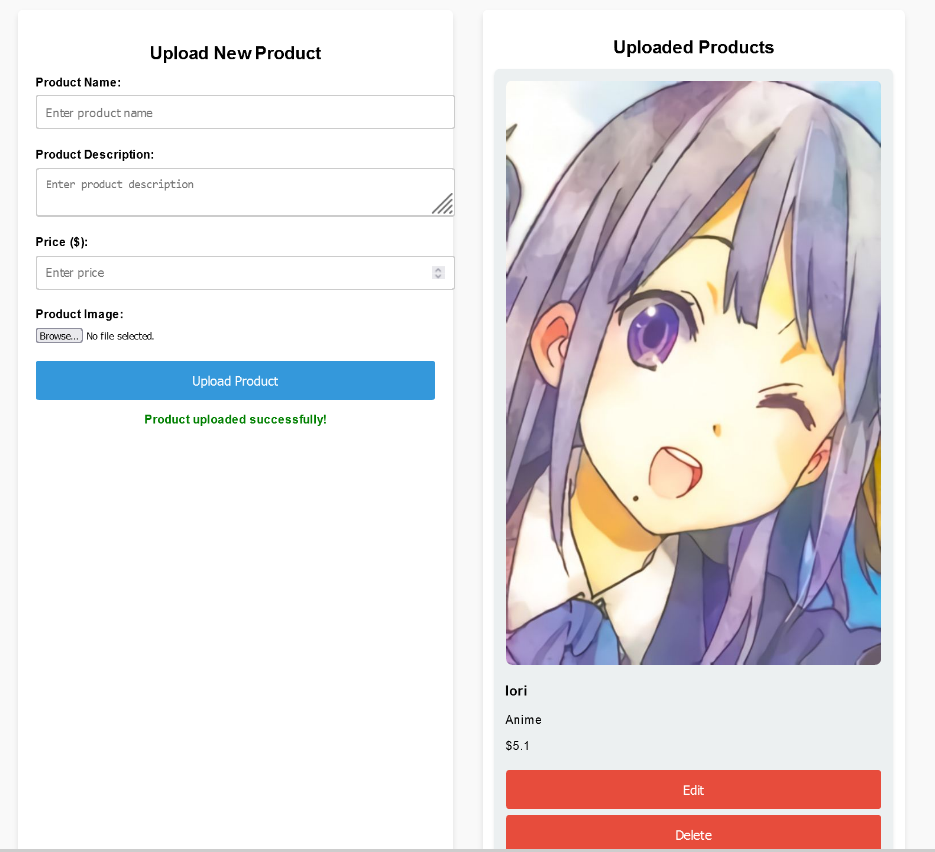


Fig. 1.4, Updated Product

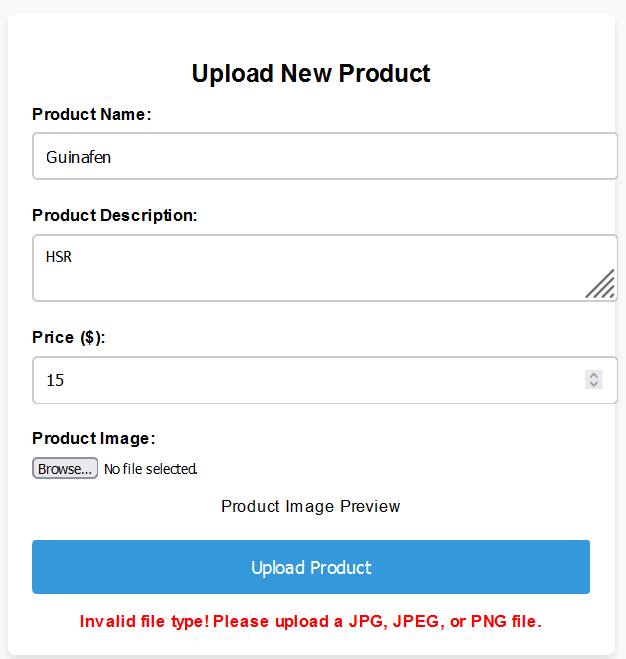


Fig. 2.0, File Validation

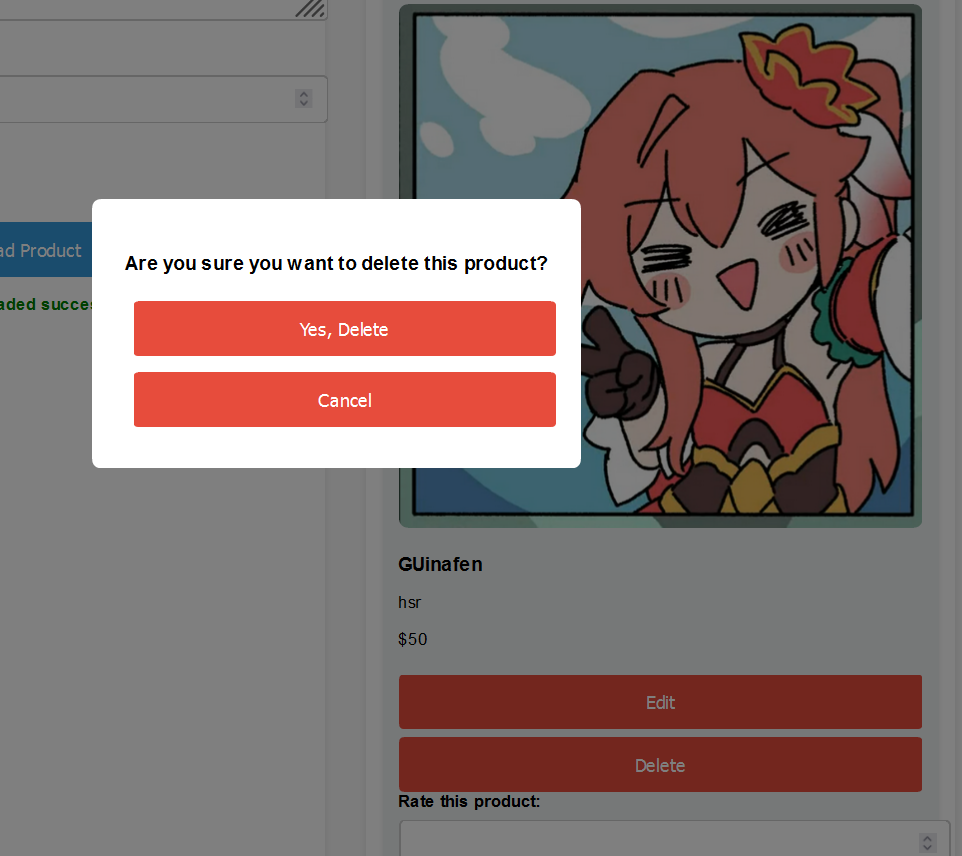


Fig. 2.1, Delete Confirmation

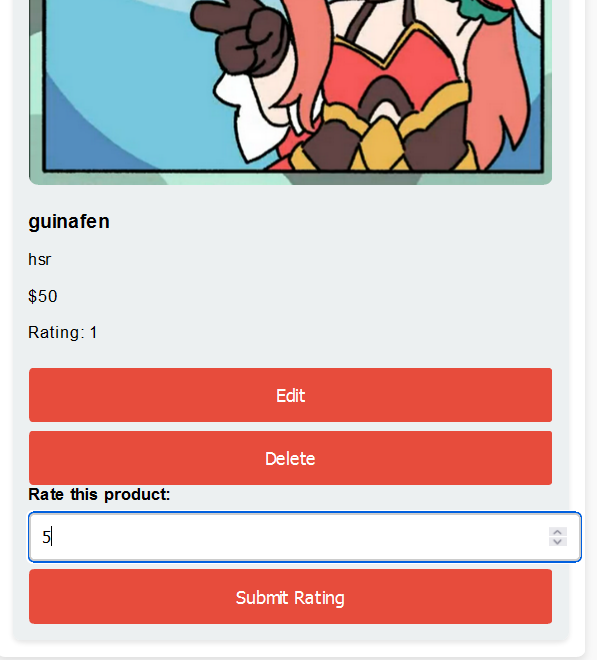


Fig. 2.2, Rating System

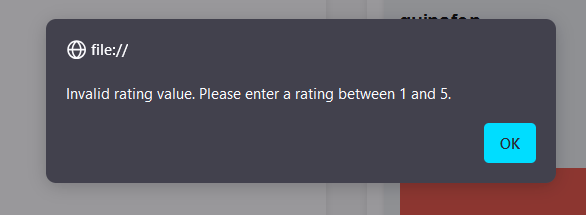


Fig. 2.2.1, Rating System Validation

1. **CODES**

Index.html:



Styles.css:



Script.js:



1. **LEARNING OUTCOMES**

Garcia

This activity was a refresher for everything HTML to JavaScript, all of which are things I had forgotten. Especially so because the code provided made use of intermediate concepts like embedding HTML code within JavaScript tags and ternary operators. Still, the most challenging was implementing the features that would satisfy the objectives; of which all were met appropriately, except for the fourth objective of designing interfaces. Unfortunately, due to time constraints, the interface was not improved in any way that enhances whatever usability it already offered. Nevertheless, the web interface successfully makes use of all three technologies (HTML, CSS, JS) with validation for relevant user inputs. The basic CRUD operations are there with the existence of the Edit and Delete option. Additionally, users can navigate the product listings through sorting by name or price, and by searching. Unfortunately, there is no way to filter for products as there are no categories. The rating system exists but is not functional in the way that it cannot count individual ratings of multiple users. The interface, however, is responsive enough in providing feedback to the user to either warn or inform the user of any wrong or valid inputs. All in all, it was a good refresher, with nearly all objectives being met; debugging the features took most of the time, unfortunately, as seen in the history of the git commit page.

1. **REFERENCES**

https://github.com/kyrzzz/ecommerce\_proj