Software Development and Testing

## Lab 2 – 14/02/2025

### Scope List

**In:**

* Account Creation/deletion
* User login
* Products page
* Orders Page
* Product Descriptions, price
* Search for products (by phrase)
* Search bar linked to database

The website allows users to create profiles with their name and email, stored in a database via PHP. Users can log in, and their credentials will be verified against the database. The site suggests the top five best-selling products, pulling data from the database. Users can interact with products, view detailed descriptions, and search for items by title. Purchases redirect users to an orders page, which logs past transactions in the database. PHP handles all interactions, ensuring seamless account management, product recommendations, and order tracking.

**Out:**

* Product variants
* Ads
* Algorithm based searching
* Actual items
* Shopping cart

The website does not include product variants, advertisements, or algorithm-based search recommendations. Users cannot browse actual items for purchase, as the platform does not function as a full e-commerce store. Instead, searches rely solely on text matching against stored product titles. Additionally, there is no shopping cart feature—purchases are handled directly through the orders page without adding multiple items at once. The site focuses on user account management, product suggestions, and order tracking without advanced e-commerce functionalities like dynamic search filtering or cart-based checkout systems.

### Product Requirements

The website functions as an e-commerce platform for gaming products and accessories, enhancing the user experience. It features an account registration system managed via PHP, which updates and retrieves user data from a database. A search function allows users to quickly find products. Until registration and login, the site remains in “guest” mode. PHP not only handles user accounts but also dynamically displays product information using arrays and associative arrays. This ensures efficient data management and a seamless browsing experience, making it easy for users to explore and purchase gaming-related items.

### Walkthrough Scenario

A customer will open our web application where they are presented with a selection of gaming products and other gaming accessories such as controllers or headphones. From there, they can search further by using the search bar function or by simply browsing the home page. If a user wishes to track purchases they can register an account with a hands-on registration form, which will track their order history. The customer can then progress to the checkout page where they can go through with the purchase of a product or alter the product they wish to purchase.

### System Requirements

The database will ensure that customer login information and order history are stored in an efficient manner. Data will be processed in tables from which details can be withdrawn, deleted or edited by both the user (in accordance with their privileges) within the website and the developers. The database will be working in conjunction with the back end of the website to process and store user activity.