

Final Project Plan

INFSCI 1059 Web Programming

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Project Description

This is a mock mechanical keyboard webstore, with the functionality of a real webstore (aside from actually fulfilling the orders placed).

This project was written with the following languages:

- HTML
- CSS - basic styling
- PHP - for most scripting and database interaction
- SQL - hosts data for products and users
- Javascript - used for a couple dynamic features, like the sign in/up pop-up windows

And contains the following features:

- Easy sign in and sign up functionality that remembers the user until logged out and welcomes them by name
- Dynamic sign in modals that check for required fields before processing against database
- Shop page lists products pulled from database, along with sorting and filtering options
- Each product links to a single product page that automatically fills in content based on the product ID sent to it
- Products can be added to the user's cart (if signed in), where they're displayed on a separate page alongside the total cost
- Cart page is accessible by the navigation bar (if signed in), or by adding an item to the cart

Initial Idea

I want to make an online webstore for mechanical keyboards. I'm a bit of a fanatic of keyboards and love browsing them online, but there are few websites that catalog boards from many different manufacturers and that do it well. Mine will be well organized to allow easy search for complete boards (filterable by size, switches, color, etc.), keycap sets, individual keycaps, DIY board kits, and more.

Planning Phase

1. **Milestone I** - due 3/30 - Introduction homepage

- Basic landing page with link to main shopping page
- 2. **Milestone II** - due 4/5 - Sign in and register functionality
 - Registration will ask for name, username, and password
 - Sign in and registration should be contained in the header included on every page
- 3. **Milestone III** - due 4/10 - Product browsing page
 - Products will be listed in a grid in the center of the page
 - Above the products is a sort option to sort by price, recency, popularity, etc.
 - There will be a left sidebar to filter the products by the criteria mentioned earlier
- 4. **Milestone IV** - due 4/14 - Product details page
 - Products can be clicked on to go to the product's details page where further details on the product will be listed
 - All products will link to one product page that generates data based on the product clicked on
 - Users will be able to add the product to their cart (if signed in)
- 5. **Milestone V** - due 4/18 - Cart page
 - Show products users have added to their cart along with the total cost
 - Will not include further functionality for actually ordering the products

Database Diagram:

