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Module 4 Summary

This module focused on enhancing the Pittsburgh Steelers roster application by improving its design and functionality. Previously, I built my styling into the PHP page, but creating a stylesheet cleans the page up and makes things more efficient. I created a dedicated styles.css file to centralize and simplify design elements, which made it easier to maintain consistency and update styles across the entire application. By linking the stylesheet to the HTML using the <link> tag, I was able to apply global design changes efficiently. Through this process, I added styling enhancements, such as changing the font to Roboto for a modern appearance, adding borders and hover effects to improve table readability, and using the Steelers' signature colors—gold and black—for table headers and buttons to align with the team's branding. The "Pittsburgh Steelers Active Roster" heading was also properly styled, reinforcing the application's theme and identity.

In addition to design improvements, I implemented a search feature that allows users to filter the roster dynamically. This involved creating a search form to accept user input, sanitizing the input to prevent SQL injection, and writing PostgreSQL queries to match the input against multiple database columns, including player names, positions, and jersey numbers. The results are displayed dynamically, showing only the relevant matches based on the search query. I also added a "Clear Search" button to reset the results, making it easy for users to return to the entire roster. This taught me the importance of building user-friendly features that prioritize ease of navigation.