PROJECT PROPOSAL

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Project Topic

Due to the abundance of choices in the retail landscape, consumers often have to visit multiple websites, conduct individual searches, and manually compare the prices of the products they are interested in. This not only requires significant effort but also increases the likelihood of missing out on the best deals due to the dynamic nature of online pricing, where prices can fluctuate frequently.

To address this issue, our project aims to build a web application which will allow users to use real-time data from major e-commerce websites (such as Amazon and Walmart) to compare prices between products sold on those sites. Users will be able to search for products (i.e. a laptop) and our web app will display a list of items matching their search along with each item's price on the various websites it's sold on. We plan on leveraging the APIs that these websites offer to provide these real-time price comparisons.

The goal of this app is to streamline the online shopping process when purchasing products as it can be tedious to manually compare products from the different major vendors and to ensure users are getting the most value for their dollar.

To implement this project, we have decided to use Next.js as our framework. It is built on React features, which will allow the application to react quickly, it supports easy API handling through route handlers, and uses server-side rendering rather than client-side, which will be beneficial as we call data from multiple different sources, increasing load time. Furthermore, it offers a lot of built-in features, functionalities, and optimization tools, allowing us to limit the amount of external libraries we may need to use otherwise.