**Scope:**

The scope of this project encompasses the development and deployment of a targeted product search and information website. The target of this product search application is college students in San Marcos, TX. The primary objective is to provide these students with an efficient and user-friendly platform for finding products they will need for participation in college studies, including detailed product descriptions, pricing, and relevant discounts. The website will feature two main search methods: category-based navigation and a versatile search bar, ensuring that users can access the desired information seamlessly. The products we’ve defined as “core” are as follows: Electronics, Applicances and Accessories. Furthermore, users will have the ability to filter and sort search results to refine their product selection. The project will involve the creation of a user interface, backend functionality for data retrieval and storage, integration with external data sources, and the implementation of a secure and responsive website.

**Boundaries:**

While the project aims to provide a robust product information platform, certain boundaries and limitations must be acknowledged. This project will not include the development of a dedicated mobile application but will ensure that the website is responsive and accessible on various devices. The integration of third-party data sources and real-time pricing information may be subject to data availability and API constraints. Additionally, the scope does not encompass the development of an e-commerce transaction system; users will be redirected to external retailers' websites for making purchases.

**Scope Flexibility:**

While the initial project scope focuses on delivering core functionalities for product search and information, we recognize the potential for future enhancements. Specifically, features such as real-time availability tracking and geographical expansion to serve regions beyond the San Marcos area are currently considered outside the primary project scope. We would also consider implementing coupon aggregation as a function, including possible API integration with a 3rd party coupon aggregation site. However, as the project progresses and user feedback is gathered, we remain open to the possibility of integrating these features in subsequent phases. This flexibility allows us to prioritize delivering a working and user-friendly platform initially and then evaluate the feasibility and demand for additional functionalities, ensuring that the project can evolve to meet evolving user needs and market demands. We also recognize that some functionality currently inside the project scope might not be feasible depending on data availability.