Department of Computer Science

COS 101 Java Project

Khaka Nyiba

4202375

**Developing a Price Comparison Website for Consumers**

Vision

The goal is to build a program that offers a vast number of products from various retailers and sources. Users should be able to find a wide range of products so that they can compare the price of also anything they are looking to purchase.

The program must have a user-friendly interface that enables people who are not used to working with technology to easily search for products and compare prices. A clean and responsive website design will enhance user experience.

The price comparison system should provide real-time or frequent updates for product prices to ensure that users are always presented with the latest information. Frequent price changes in online shopping require that the data is up to date.

Ensuring the accuracy of product details, specifications and availability is crucial. Users should have confidence in the information presented which reduces the likelihood of returns and unsatisfied consumers. Our vision focuses on saving users’ time and effort. By having a centralized platform for price comparison users will not have to visit multiple websites to find the best deal

The program should include prices from reputable retailers and not be limited to a single source. A diverse pool of sources will help users get a more comprehensive view of the available options. The program must also be transparent and impartial in its listings. Users should not perceive bias towards specific products or retailers. The security and privacy of user data is an aspect of the product’s vision. Users need to trust that their personal information is safe and not misused.

Stakeholders

Consumers (users), Business Owners, Retailers (Data Providers), Project team, Project manager, UI researchers (does research on user requirements), User Support (service team), Analytics Team (monitors the performance of the application).

Scrum Team

Product Owner (website creator), Scrum Master (project manager with agile experience), Development Team (front-end developers, back-end developers, full-stack developers, UX/UI Developers, Data Engineers (Works with data management, data storage and data retrieval), Testers (Tests the program for bugs).

Product Backlog

Contains User Stories for Product Catalogue. Sign Up and Sign In, Create Profile, Listings, Search and Filters, Ratings and Reviews, Price History and Notifications, Price Update Alert, Reward System, Integration of Payment Gateway for Credit Card Payments, User Interface Design, Price Comparison Logic (The algorithm that is going be used to compare the price of products), Product Details Page, Price Change Monitoring, Error Handling and Validation (the program must account for any potential mistakes/misinputs for the user using the program), Privacy and Security, Data Storage and Database Setup.

References

* Vakhnenko H. (2022). *Guide On How to Create a Price Comparison Website*. Accessed 31 July 2023 .Available at: <https://agilie.com/blog/guide-on-how-to-create-a-price-comparison-website>.
* SPDLOAD (2021). *Price Comparison Website Development: Tips, Process, Cost*. Accessed 31 July 2023. Available at: <https://spdload.com/blog/price-comparison-website-development/>.