Code Description

Website Function & RedCircle API

1. `src/main_streamlit.py`

Main file for Streamlit website.

2. `src/main.py`

Main file for RedCircle API endpoints.

3. `src/scraper.py`

Contains methods to scrape individual websites to retrieve searched items.

4. `src/scraper_mt.py`

Includes a method for crawling a shopping site using a multi-threaded static crawler to retrieve items on demand, with performance better than `scraper.py`.

5. `src/configs.py`

Contains the configurations for website scrapers.

6. `src/configs_mt.py`

Includes configuration and methods for a multi-threaded web scraper and the addition of a target dynamic crawler.

7. `src/url_shortener.py`

Contains method to shorten large URLs using the `pyshorteners` (tiny.cc) API.

8. `src/formattr.py`

Contains additional utility methods for formatting search queries, URLs, results, and other text. Also adds Bestbuy's formatted search function.

9. `src/currency_converter.py`

Contains a function that converts the price from USD to user-preferred currency using the `CurrencyConverter` library.

10. `src/database.py`

Sets up a PostgreSQL database connection using SQLAlchemy, including the definition of a session and declarative base for ORM operations.

11. `src/models.py`

Defines models for the database tables used in ORM operations in the application.

12. `src/pages/login.py`

Creates a Streamlit login page that facilitates user authentication via username and password.

13. `src/pages/logout.py`

Contains a method to log out the currently logged-in user.

14. `src/pages/register.py`

Creates a Streamlit registration page to facilitate user registration.

15. `src/pages/search.py`

Allows users to search for products from various websites, display search results based on criteria like price range, cheapest product, and add selected items to a wishlist.

16. `src/pages/wishlist.py`

Displays the wishlist for the logged-in user. The code has a two-column layout to display products properly. A link to the latest product added to the wishlist is displayed on top of all wishlist products.

17. `src/routers/auth.py`

Contains API endpoints for user authentication, access token management, and user registration, with secure hashing and validation.

18. `src/routers/wish_list.py`

Contains API endpoints for managing a user's wishlist, allowing users to add, view, and remove items from their wishlist.

19. `tests/tests_api_bestbuy.py`

Test case for crawling the bestbuy web crawler functionality

20. `tests/tests_api_target_new.py`

Test case for crawling the target web crawler functionality

21. `tests/formatNumber_new.py`

Test cases for whether the crawler function is able to fetch the content properly

22. `tests/formatResults_new.py`

Test cases for whether the content returned by the crawler is formatted or not

23. `tests/tests_api_general.py`

General Test case for crawling the all web crawler functionality

24. `tests/tests_api_walmart.py`

Test case for crawling the walmart web crawler functionality

25. `tests/tests_formatText.py`

Test cases for whether the queries and titles returned by the crawler are formatted or not