Code Description

Website and REST API

1. **src/main_streamlit.py**

   Main file for Streamlit website.

2. **src/main.py**

   Main file for REST API endpoints.

3. **src/scraper.py**

   It contains methods to scrap individual websites to retrieve searcheditems.

4. **src/scraper_mt.py**

   It contains methods to scrap individual websites to retrieve searched items using multithreading. It provides much better performance thanscraper.py

5. **src/configs.py**

   Contains the configurations for website scrapers.

6. **src/configs_mt.py**

   Contains the configurations for multithreaded website scrapers.

7. **src/url_shortener.py**

   Contains method to shorten large urls using pyshorteners (tiny.cc) API

8. **src/formattr.py**

   It contains additional utility methods to format search queries, URLs,results, and other texts.

9. **src/currency_converter.py**

   It contains the function that converts the price from USD to user preferred currency using the 'CurrencyConverter' library.

10. **src/database.py**

    It contains code that sets up a PostgreSQL database connection using SQLAlchemy, including the definition of a session and declarative base for ORM operations.

11. **src/models.py**

    It contains the models for the database tables that are used for ORM operations in the application

12. **src/pages/login.py**

    It contains a method for creating a streamlit login page that facilitates user authentication via username and password.

13. **src/pages/logout.py**

It contains a method to logout the user logged in.

14. src/pages/register.py

It contains a method for creating a streamlit register page that facilitates user registration.

15. src/pages/search.py

It contains streamlit code that allows users to search for products from various websites, display search results based on their criteria, and add selected items to a wishlist.

16. src/pages/wishlist.py

It contains methods to display the wishlist of the user logged in.

17. src/routers/auth.py

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

18. src/routers/wish_list.py

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

Android Application

1. **SplashActivity.java**

   Welcome screen for the application.

2. **MainActivity.java**

   Screen that accepts user inputs for website and product.

3. **SearchResultActivity.java**

   Screen that displays the dynamically fetched results based on user inputs.

4. **SearchResultsListAdapter.java**

   Adapter to load the screen for displaying results.

5. **SearchResultEntity.java**

   Model class that contains attributes of Search Results with getter and setter methods for each attributes.

6. **ApiInterface.java**

   Interface to make an API call using Retrofit API.

7. **RetrofitInstanceClass.java**

   Class to create a singleton instance of Retrofit object.