

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/scrapper.py`

Contains methods to scrap individual websites to retrieve searched items.

4. `src/scrapper_mt.py`

Contains methods to scrap individual websites to retrieve searched items using multithreading. It provides much better performance than `scrapper.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`

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

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.