Slash-Phase6

Motivation

In today's e-commerce landscape, consumers face an overwhelming number of choices and often spend considerable time comparing prices across different websites to find the best deals. This process can be time-consuming and tedious. To address this issue, Slash was developed as a unified platform to help users quickly access the best prices from several popular e-commerce sites, saving both time and effort.

Introduction

Slash is a web application that scrapes product information from popular e-commerce websites such as Walmart, Target, BestBuy, and eBay. Users can search for specific products on Slash, and the system will return price information from each site, allowing users to compare and find the most favorable deals. This project was developed by a team of students at North Carolina State University (NCSU) with the aim of providing consumers an efficient and convenient shopping assistant tool.

Steps for Execution

1. Clone the Repository:

Use the following command to clone the project repository locally:

```
git clone <https://github.com/DFY-NCSU/slash-phase6.git>
```

2. Install Dependencies:

Enter the project directory and install the required Python dependencies:

```
cd slash-phase6
pip install -r requirements.txt
```

3. Configure Database:

Ensure that PostgreSQL is installed. In the src/database.py file, update the database connection settings with your PostgreSQL username and password.

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Start the SQL with this command

For Windows

```
pg_ctl -D your_path start
```

For Mac

```
brew services start postgresql
```

For Linux

```
sudo systemctl start postgresql
```

4. Run the Backend Service:

Navigate to the <a>src directory and start the backend service:

```
cd src
python main.py
```

5. Launch the Frontend Interface:

In a new terminal window, return to the root project directory and run the Streamlit application:

```
cd ..
streamlit run slash_user_interface.py
```

6. Access the Application:

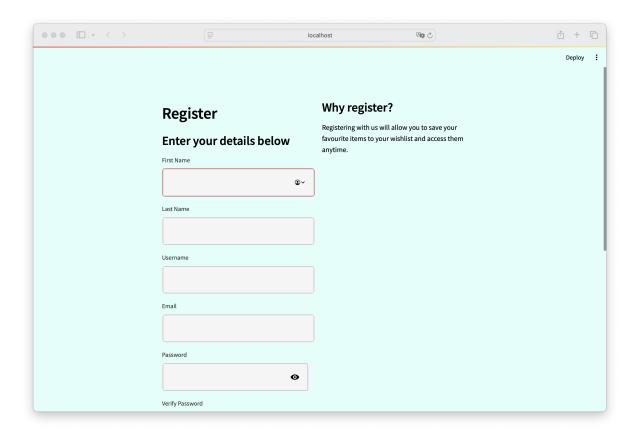
Open your browser and navigate to http://localhost:8501 to access the user interface of the Slash application.

Following these steps, you will successfully run the Slash application and experience its powerful price comparison features.

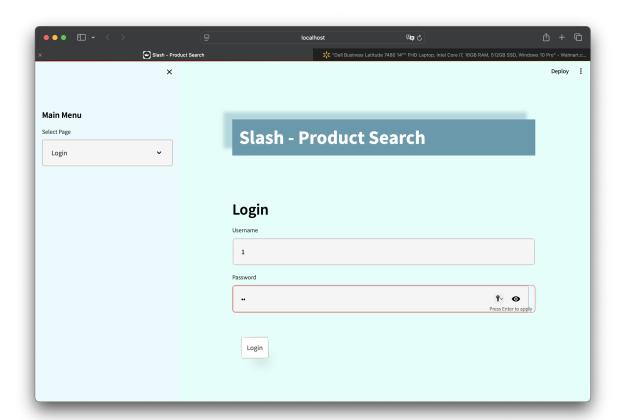
Output

Register

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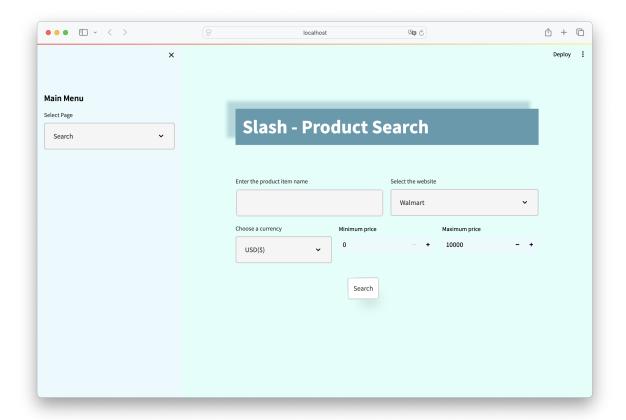


Login



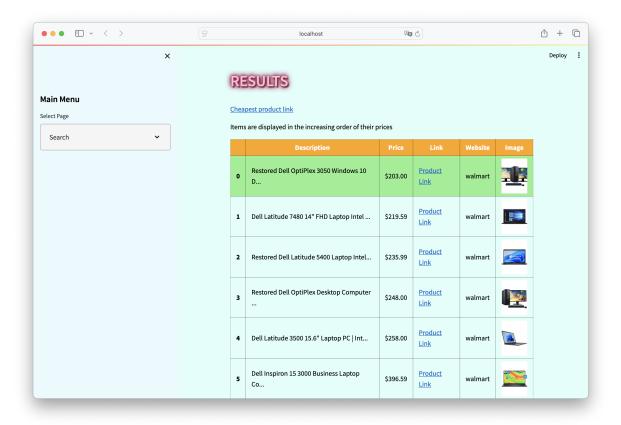
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Search Function

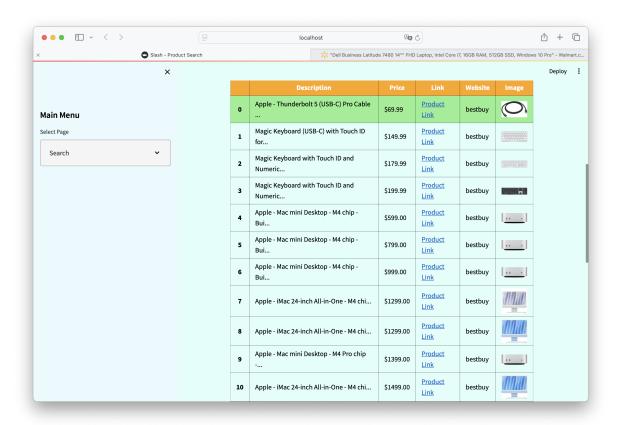


Search Results by walmart

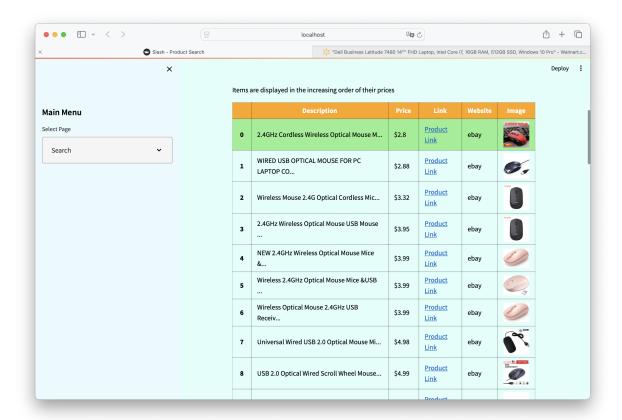
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Search Results by bestbuy



Search Results by ebay



Third Party Dependencies

altair = 4.2.2

anyio==3.3.4

asgiref = 3.6.0

astor==0.8.1

attrs==23.1.0

base58==2.1.1

bcrypt==3.2.0

beautifulsoup4==4.10.0

blinker==1.6.2

cachetools==5.3.1

certifi==2021.10.8

cffi==1.16.0

charset-normalizer==2.0.7

click==7.1.2

CurrencyConverter==0.17.11

ebaysdk==2.2.0

ecdsa==0.18.0

entrypoints==0.4

fastapi==0.70.0

gitdb = = 4.0.10

GitPython==3.1.36

greenlet==3.0.0

h11==0.14.0

idna==3.3

importlib-metadata==6.8.0

Jinja2==3.1.2

jsonschema==4.19.0

jsonschema-specifications==2023.7.1

|xm| = 4.9.3

markdown-it-py==3.0.0

MarkupSafe==2.1.3

mdurl==0.1.2

nest-asyncio==1.5.1

numpy = 1.26.0

packaging==23.1

pandas==2.1.0

passlib==1.7.4

Pillow==10.0.1

protobuf==3.20.1

psycopg2-binary==2.9.3

pyarrow==13.0.0

pyasn1 = 0.5.0

pycparser==2.21

pydantic==1.8.2

pydeck==0.8.1b0

Pygments==2.16.1

PyMySQL==1.0.2

pyshorteners==1.0.1

python-dateutil==2.8.2

python-jose==3.3.0

python-multipart==0.0.5

pytz==2023.3.post1

referencing==0.30.2

requests==2.31.0

rich==13.6.0

rpds-py==0.10.3

rsa==4.9

six = 1.16.0

smmap==5.0.0

sniffio==1.2.0

soupsieve==2.2.1

SQLAlchemy==1.4.32

starlette==0.16.0

streamlit==1.27.2

tabulate==0.8.9

tenacity==8.2.3

toml==0.10.2

toolz = 0.12.0

tornado = = 6.3.3

typing_extensions==4.8.0

tzdata==2023.3

tzlocal==5.0.1

urllib3==1.26.7

uvicorn==0.15.0

validators==0.22.0

watchdog==3.0.0

zipp = 3.17.0

selenium == 4.25.0

fake_useragent == 1.5.1