Price Spy

* *Everything at the lowest price*

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| **Sl.No** | **Topics** |
| 1. | Overview |
| 2. | Requirements |
| 3. | Functionalities |
| 4. | Snapshots |

**1. Overview**

Prices vary from point to point and from time to time. The hectic thing is finding a damn cheap deal in a short period. We have come up with a solution by creating an IOS Application that brings the best deals on products from different sites. It displays the product of a specific search with a low price and the site in which it is available.

**2. Requirements**

* Python
* AWS S3
* SWIFT
* API
* GitHub

**3. Functionalities**

**3.1 Web Scraping:** Web scraping is an automatic method to obtain large amounts of data from websites. Most of this data is unstructured data in an HTML format which is then converted into structured data in a spreadsheet or a database so that it can be used in various applications. We are using a Python module called **‘Beautiful Soup’**. We will be scraping data from different E-Commerce websites such as Amazon, Walmart, etc., Refer to **Figure: 1**

**3.2 Comparison Logic:** Using Python, we are comparing data obtained from web scraping based on price, review, rating, etc., We will be storing the output in a separate Excel sheet. Refer to **Figure: 2**

**3.3 AWS S3:** The output file from the comparison logic is stored in AWS S3.

**3.4 iOS Application:** We are using Swift Storyboard to develop our iOS application to display the product details. We are including features like filter, sorting, search, login page, adding to cart, etc., Refer to **Figure: 3**

**3.5 Protopie:** It is a prototyping tool used for creating interactive and high-fidelity prototypes. Prototypes are essential in the design and development process as they allow designers and developers to visualize and test the user experience before the actual implementation of a product. Refer to the prototype([protopie](https://cloud.protopie.io/p/c0d7ccf15bfbfee8363e4ec3)).

**4. Snapshots:**

A screen shot of a computer

Description automatically generated

**Figure: 1**

A screen shot of a computer

Description automatically generated

**Figure: 2**

A cell phone with a green screen

Description automatically generated

**Figure: 3**