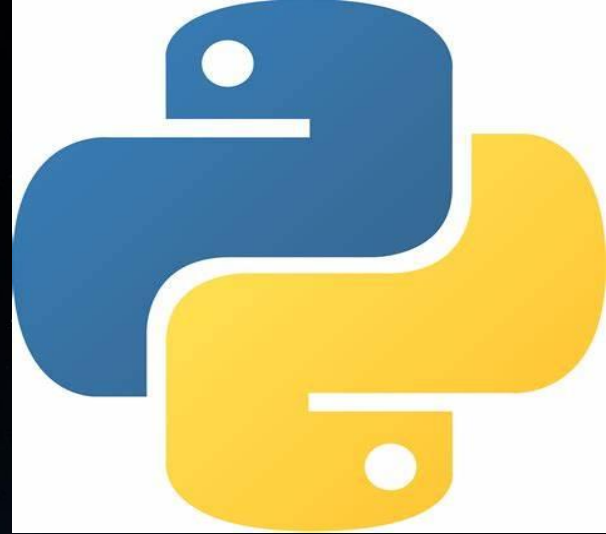


UNT - FALL 2023

DTSC 3023.501 - TERM
PROJECT

Group 2- Cart Comparison App

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```
self.table.update()
self.file_names = []

QtCore.singleShot(0, self.use_selected_files)

def use_selected_files(self):
    # Get the selected actors in the level
    selected_actors = unreal.EditorLevelLibrary.get_selected_level_actors()

    if selected_actors:
        self.table.clearContents()
        self.table.setRowCount(len(selected_actors))
        self.file_paths = selected_actors
        self.file_names = [actor.get_actor_label() for actor in selected_actors]
        for row, file_name in enumerate(self.file_names):
            item = QTableWidgetItem(file_name)
            self.table.setItem(row, 0, item)

        self.prefix_input.setText("")
        self.basename_input.setText("")
        self.suffix_input.setText("")
        self.rename_button.setEnabled(True)

        # Write a funny comment for the thumbnail

def confirm_rename(self):
    confirm_box = QMessageBox()
    confirm_box.setWindowTitle("Confirm Rename")
    confirm_box.setIcon(QMessageBox.Question)
    confirm_box.setText("Are you sure you want to rename the files?")
    confirm_box.setStandardButtons(QMessageBox.Yes | QMessageBox.No)
    confirm_box.setDefaultButton(QMessageBox.No)
```

Overview

Apply best price match discount on items in cart.

According to Nerd Wallet in a 2021 online article, “Price matching means a retailer will drop their prices to match a competitor's.” So, if you have the time to find and use them, price matching policies can lead to significant savings. It involves showing proof (and a few other requirements) that you found the item at a lower price with one of their competitors. This can be done in store or online. When done online, digital coupons are usually used.

There are several places to find digital coupons. This includes adding a digital coupon extension to your browser. For example, Microsoft provides a built-in feature through the Microsoft Edge shopping features. So, “while you shop online. Microsoft Edge searches the web and alerts you to lower prices on other sites”. In addition, Stores website, Digital Newspapers, Digital Coupons apps, and Coupons sites are additional places to find digital coupons.

Overview Cont'd

Popular coupon rewards like Honey, require you to manually tap to apply codes at checkout.

Our App will automatically compare prices across various retail outlets and apply the lowest total price of items in your cart.

No need to go to another site to get a discount or manually tap to apply discount/coupon to each item in the cart.

Proposed Model

Application Name: PriceSmart

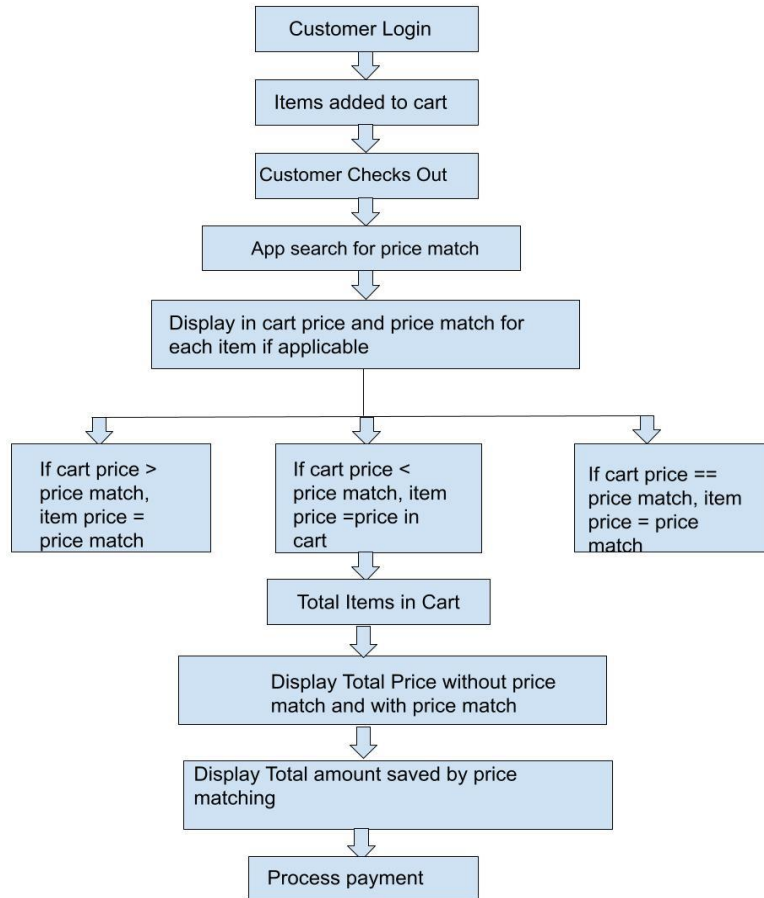
Tagline: Your one-stop app for smart savings on your shopping.

Target Users:

- Online shoppers who want to save money
- Consumers who are looking for the best deals on a variety of products
- Price-conscious consumers seeking the best deals on a wide range of products.
- Individuals seeking to optimize their spending habits and stretch their shopping dollars.



Process Flow



Implementation

The programming language for the App will be in Python. Python because it is flexible and scalable and has vast libraries which we can leverage on for data mining, manipulation and visualization. It will also be helpful when we start incorporating Machine Learning Algorithms.

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Program Simulation and Output

Here are your new store totals:

Items in your cart:

Item	Nordstrom	Macy's	JC Penny
Black t-shirt	\$9.00	\$12.00	\$10.00
Red sandals	\$14.40	\$19.00	\$14.00
Blue blouse	\$17.40	\$24.00	\$19.00
Brown belt	\$5.40	\$0.00	\$3.00

New total cost from each store:

Nordstrom	Macy's	JC Penny
\$46.20	\$55.00	\$46.00

Coupon savings by store:

\$30.80	\$7.00	\$3.00
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The store with the best deal after applying coupons is: JC Penny

You have potentially saved an additional \$3.00 by applying coupons with PriceSmart.

Limitations

- Not all retailers participate in price match
- Only three types of coupons
- Data used in price matching isn't generated in real-time from the internet
- Only clothing retailers are used

Future Plans

- Web scraping techniques to pull real-time pricing information from participating retailers and other sites.
- Alert feature to show lower price for items marked for price monitoring.
- Incorporate machine learning algorithms to provide personalized product recommendations and enable price prediction capabilities.
- Allow user to substitute for items in their cart.

Conclusion

The aim of PriceSmart is to become the go-to app for online shoppers seeking to maximize savings. This will be achieved by using a detailed product database and real-time price comparison to deliver the best time and money saving deals to customers. PriceSmart will empower users to make smart choices and stretch their shopping dollars further.

Citation

1. NerdWallet (2021,November 1). Price Matching. Retrieved November 29, 2023, from [Price Matching: 6 Tips to Help You Save - NerdWallet Canada](#)
2. Microsoft (2023,March 28). Understanding Digital Coupons and E-Coupons. Retrieved November 29, 2023, from [Understanding Digital Coupons and E-Coupons | Edge Learning Center \(microsoft.com\)](#)
3. Microsoft Edge(2023). Shopping. Retrieved November 29, 2023, from [Explore Shopping Features in Microsoft Edge | Microsoft Edge](#)
4. Paypal Honey(2023).Shop , Save & Get Reward, Retrieved November 29, 2023, from [Honey \(joinhoney.com\)](#)

Questions?

