# **SmartShop**



### outline

- Motivation
- SmartShop Workflow
- Demo
- Challenge
- Technique
- Feature work

### **Motivation**



## When you got the bill...



https://www.megapixl.com/stressed-out-man-with-computer-stock-photo-54545984



http://www.krbe.com/2017/07/19/most-stressed-out-cities-in-america/

### **Motivation**







### **Cashback Website**

Gift Card

Coupon

https://www.thesun.co.uk/money/4964758/we-reveal-how-you-can-get-paid-to-shop -this-black-friday-with-cashback-websites-2/

http://mtactraining.com/product/2017-gift-card/

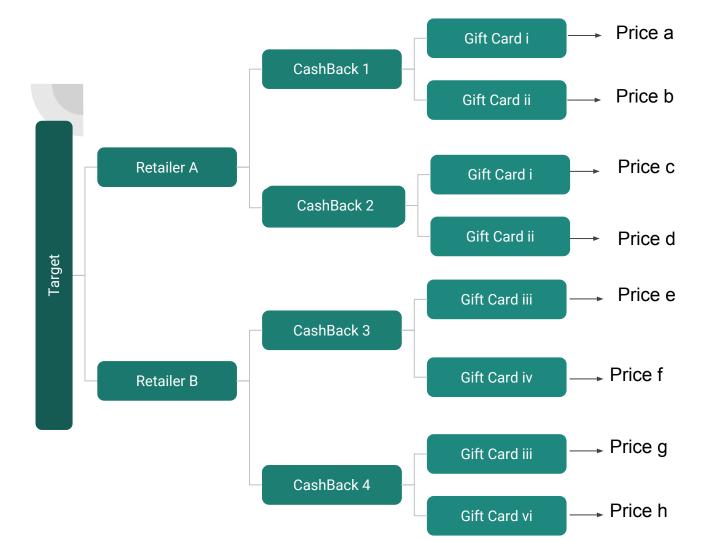
https://hip2save.com/2016/01/10/craft-store-coupon-roundup-a-c-moore-michaels-jo-ann-craft-stores-hobby-lobby-4/

### **SmartShop**

The calculation you may do:

```
Price A ? = $100 from Retailer A - 10% Cashback * $100 - 15% gift card * $100 = $85.00 
Price B ? = $110 from Retailer B- 15% Cashback * $110 - 12% gift card * $110 = $80.3 
Price C ? 
Price D ? .......
```

#### Which one is best shopping strategy ???



### Demo

#### **UI Features:**

input : item or URL

#### Test Cases:

- 1. kitchen aid mixers
- 2. Switch
- 3. Origins Dr. Weil Mega-Mushroom Treatment Lotion, Mens, 6.7 oz.
- 4. Adidas Boys 8-20 Pull on Pant in Black | Shopko
- 5. Under Armour Drive 4 Mens Basketball Shoes 1303010403 Size 12

- 1. The price and discount collection
- 2. Validation of data
- 3. Shopping Habit

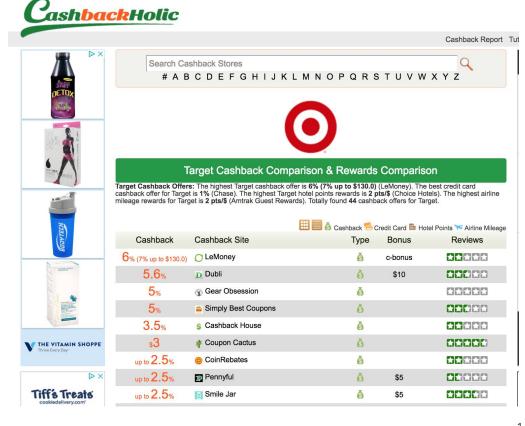
1. Retailers information is from "google shopping"

Sellers	Seller Rating ▼	Details   Special Offers	Base Price	Total Price
EverythingKitchens.com	<b>96%</b> positive (6,287)		\$229.00 Free shipping. No tax	\$229.00
Sur La Table	96% positive seller rating	◆ 1 special offer	\$379.95 +\$31.92 tax and \$18.99 shipping	\$430.86
Dillard's	94% positive seller rating		\$379.99 +\$30.40 tax. Free shipping	\$410.39
BuyDig.com	<b>93%</b> positive (17,670)		\$349.99 Free shipping. No tax	\$349.99
BeachCamera.com	<b>93%</b> positive (3,346)		\$349.99 Free shipping. No tax	\$349.99
Bed Bath & Beyond	<b>93%</b> positive (344)		\$379.99 +\$30.40 tax. Free shipping	\$410.39
Overstock.com	<b>92%</b> positive (177,139)		\$299.00 Free shipping. No tax	\$299.00
Wayfair	<b>92%</b> positive (10,403)		\$299.99 +\$24.00 tax. Free shipping	\$323.99

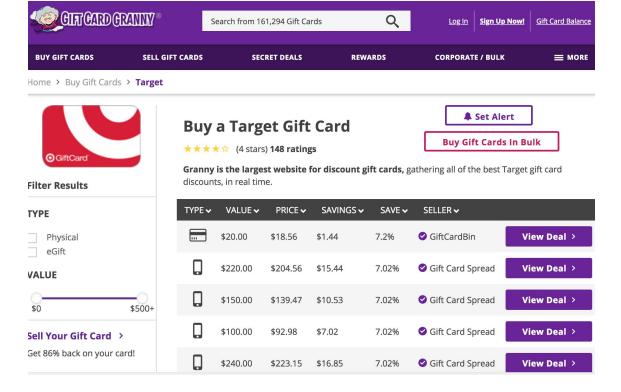
Price with Tax

#### 2. CashBack Site selection

- Top Cashback
- BeFrugal
- Coupon Cactus
- Mr. Rebates
- eBates
- RebatesMe



2. Gift card website



#### 3. Personal shopping habit

- Look for good deal for specific item
- Look for good deal for specific website

### Technology in Backend

- NodeJS
- **ExpressJS**: The Node framework that everyone uses and loves.
- Request: Helps us make HTTP calls
- Cheerio: Implementation of core jQuery specifically for the server (helps us traverse the DOM and extract data)

### **Technique** - Architecture

