Web App and Code Instruction

Sale-Dex

https://cse134bhw-d7979.firebaseapp.com/mainpage.html

App overview

Our web application, Sale-Dex, aims to collect shopping discount information mainly in clothes, make-up, bags etc so that people can save their money for purchase in a great extent.

Web structure

- Main page (Relevant file: mainpage.html)
  - A. Categories
    1. Clothes page (Relevant file: clothes.html)
    2. Shoes page (Relevant file: shoes.html)
    3. Makeup page (Relevant file: makeups.html)
    4. Bags page (Relevant file: bags.html)
  - B. Top Clicks and Your follows (Relevant file: Yourfollows.html)
  - C. Manage Your Follows
  - D. Log in/Sign up
- Manage Your Follows (Choose your preference on different brands) (Relevant file: choose_prefer.html)
- Log in/Sign up (Relevant file: login.html/sign_up.html)

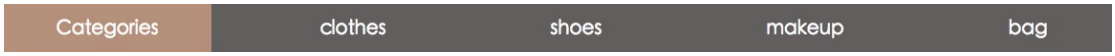
App and Code Instruction

- Main page
  - A. App Instruction:

Just as the schema shows in the Web structure part, main page consists of four parts: Categories, top clicks and your follows, manage your follows and log in/sign up.

1. In the categories, the discount information is categorized into clothes, shoes, makeup and bags. User can see these information by clicking on the category name in the navigation bar.

Screen shot:



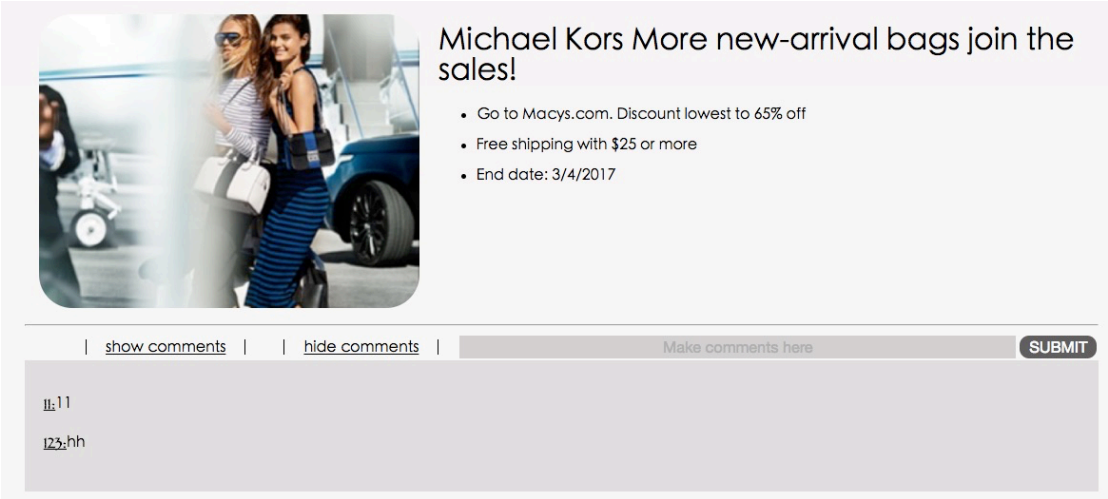
2. For the top clicks and your follows part, top clicks contains all the hot discount information and list all of them in the page while your follows only

contains the brand information that the user chooses to see. Notice that if user hasn't log in to our website, the page will jump to log in/sign up part first.

Screen shot:

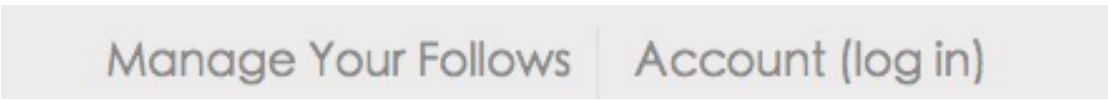
3. User can make comments under each brand by simply typing the comment and clicking on submit. Then the comments will show up including previous comments different users have ever made. Clicking on show comments will list all the comments. Hide comments will hide those comments. Notice that if someone wants to comment, he needs to log in/sign up first.

Screen shot:



4. On the upper left corner of main page, user can click manage your follows to choose their brand preference or click Account to login/sign up.

Screen shot:



B. Code Instruction:

```
function initpage(){
    getMainContents();
}
```

The function is called when the page is firstly initiated. Because our page is dynamically updated (fetch date and images from database and update the page then), we call getMainContents() in this initpage() function.

function getMainContents()
This function aims for creating the content in the web page. It includes creating the text content(inside a div), placing the image and adding the comments.

- Manage your follows(choose your preference)

A. App instruction

There's left navigation bar where user can click on each categories to see what brands they'd like to choose. There is a select button and delete button under each brand so that users can modify their choices. Once some brand is chosen, there's red border occurred meaning that this brand is chosen. Finally, if user has already made their personal preferences, they can click on submit in the left navigation bar and then the website will jump into your follows page.

Screen shot:

B. Code Instruction:

function handleUserChoose()
The function is used for adding the brands information into database once user clicks on submit.

Functions of jump(), change(), cancel() are coded as scrolling to the certain category, changing the border around the brand if selected and cancelling that selection (withdraw the border).

- Log in/Sign up

A. App insturction

This logic of this part is very straight forward. If user hasn't signed up before, he or she needs to sign up first and then log in. When logging in, user can either use the account they've signed up or their google account if they have.

Screen shot:

B. Code Instruction:

function toggleSignIn()

This function is to deal with logging in by email & password. It checks whether email and password meet the requirement. And it calls firebase api signInWithEmailAndPassword().

function toggleSignInWithGoogle()

This function is to deal with logging in by google account. It calls firebase api signInWithPopup().

function handleSignUp()

This function is to deal with signing up via email & password. It checks whether email and password meet the requirement. If not pass, user have to input again. This function calls firebase api createUserWithEmailAndPassword().

Testing performance

Performance Optimization

- Compress small image to 10kb and large image to 200k
- Bundle and minify the file of javascript

TODO

- We have realized the function of commenting only in top clicks and your follows as a demo. Things in categories are still static. This part is still needed for completion.
- There are only eight brands right now. Two brands each category. In the future, it may add more brands and corresponding discount information for users to select. More categories are also possible.
- It needs to add search function so that user can search information by typing key words.
- For the comment part, it needs a scroll bar so that when there are lots of comments under certain brand, user can use scroll bar to look through entire comments instead of taking up so many space in the page right now.
- We can add more functions. For example, add heart symbol to mark for users if they like it. Add start symbol for user to make private collection.
- Add url link for every brand so that user can directly redirect to the website where this brand is in sale.
- Performance can still be optimized by leveraging browser caching. In our project right now, since firebase generates a different source url for image every time, our website cannot be cached by browser.