

## Summary user stories for overall functionality

1. As a user, I want to be able to sign in and out with Facebook.
2. As a user, I want a product page I visit to be recognized by the extension so that I can save it.
  - a. Or, only for supported websites (let's say Amazon first).
3. As that user, I want to be able to save that product to my bookmarks.
4. As a user, I want to be able to set a threshold for when I should be notified of changes in the price of a product.
5. As a user, I want to be able to select whether I receive recommendations for similar products.
6. As a user, I want to be able to see my bookmarks, as well as the price I saved it as.
7. As a user, I want to be able to remove a product from my bookmarks.
8. As a user, I want to be able to tell the app that I purchased something, and see how much I saved.
9. As a user, I want to be able to receive notifications for when the price on one of my items drops.
10. As a user, I want to receive notifications when I receive a special offer from a partner brand.
11. As a user, I want to be able to see recent price changes.
12. As a user, I want to be able to report unsupported pages.

**Comment [BS1]:** My feeling is that this will take the longest time to implement – much easier to build in support for ~10 websites first while creating a way for us to scale; possible to have some file that specifies, for each ecommerce site, where in the DOM the name and price information is?

For example, at the start, this file will only have information for where in Amazon's DOM their product name and price is stored, but we can just add more as we add new websites.

**Comment [BS2]:** At the start, we can just alert based on any price drop.

**Comment [BS3]:** Initial implementation is just a 1 or 0 flag in DB.

**Comment [BS4]:** We can just go with the “Remove” soft delete from the start.

**Comment [BS5]:** Possible to implement quickly by not using notifications API? See Silverbird twitter extension, where they create a “fake” notification by changing the extension icon.

So, when we detect price drop, we can just change the icon, and set default popup.html to the notifications screen.

**Comment [BS6]:** Ideally, this module should be integrated with the price notification, but if we can do the fast prototype above, then we can develop this at a later date.

## Price scraping algorithm

1. As an administrator, I want to be able to parse URLs for product IDs and save those IDs (vs. the URLs, which have tracking information etc., and are all different).
2. As an administrator, I want to convert threshold % into user\_specified\_price (by multiplying with current\_price)
3. As an administrator, I want to send users notifications when the price of one of their products falls.
4. As an administrator, I want to send users custom notifications (e.g., of offers).
5. As an administrator, I want to start a query whenever a user starts surfing the internet, and check the current price of all the user's products against their saved price.
  - a. Chrome.alarms API?
6. As an administrator, I want to subtract price\_when\_saved from current\_price, display, and add to total\_money\_saved
7. As an administrator, I want to subtract current price from user\_specified\_price and if positive, alert user.
8. As an administrator, I want the “remove” button to flag display\_in\_browser in the user-products table to 0 (it should default to 1).

## Frontend

1. As a user, I want to be able to click the extension icon (browserAction), and have a menu pop up.

2. As a user, I want to be able to see icons for the three basic functions, and be able navigate to between the screens.
3. As a user, I want the defaultpopup to be the home screen.
4. As a user, I want the product name of a supported website (e.g., Amazon) and price to show up in the popup
5. As a PM, I want for us to have an easy way of adding new supported websites (so, some schema where we can specify fields like “product name”, “price”, as well as where in the DOM for the new ecommerce site this information can be located)
6. As an administrator, I want the product/user’s data to be passed when he/she clicks “Save for me”
7. As a user, I want my wishlist pulled from the DB when...? [not sure when the best time to do this is, on browserAction?]
8. As a user, I want “remove” and “purchased” buttons to do what they’re supposed to do. [I’m assuming AJAX stuff here]
9. As an administrator, I want to be able to push custom notifications.
10. As an administrator, I want recent notifications to be visible in the popup. [this seems tricky. What is the best implementation? I noticed that something like SilverBird (the twitter extension) “simulates” notifications by changing the icon. It might be easier to implement this way]
11. As an administrator, I want to have a notifications DB that the extension pulls from to display notifications.

12. As an administrator, I want this DB to be populated by custom entries, or price update entries.