Shopmate is a great place which makes the shopping easy by giving the best deal of a product, by comparing the prices on various websites and provides best one stop shopping solution. This idea will be live as a website in the initial stage and then will be developed for mobile platforms as well.

Shopmate takes product name as an input from the user, searches all major online retailers for that product and will display consolidated results on one page, which can be sorted by price or by store. That way user can know which retailer provides that product with the least price. Each product tile will contain the product name, price, image, store name. By clicking on the tile, will take the user to particular retailer’s site, where use can make purchase. Thus, user saves lot of time for searching the best price all over the internet. To make the searching faster, search results are cached in the database for 1 hour. After 1 hour, the results will again be generated by parsing major website retailers.

Following is the sequence of a search query on Shopmate web portal.

1. User enters any product name in the search box.
2. User clicks search button.
3. The request is made to the server along with the product name that the user entered. The server will validate the product name and will complain if the name is invalid or empty.
4. If the name is validated, the server will parse major retailer’s websites such as Walmart, BestBuy and Target, for the product to search for prices.
5. The results will be consolidated and will be stored in a database for 1 hour. So that any other user searches for the same product name, the server will not parse the websites again and rather simply display the results right from the database.
6. The results are then displayed on Shopmate webpage along with Thumbnail, full name, price and store name.
7. The user clicks on sort by Price button.
8. The results are sorted by price from low to high.
9. The user click on a search result
10. The user is navigated to the store providing that price.