**Project Requirement**

**Beat Me**

CS 157A - TEAM 1

Kun He, Tien Pham, Han Kang

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**CS 157A - [Section 01]**

1. **Functional requirement**

**3.1 Performance**

* To using a Smartphone or PC, the client can access the *Beat Me* website and perform price tracking on certain products.

**3.2 Functionality/Features**

* Supports popular retail sites such as Amazon, Bestbuy, Walmart, etc by using their provided API or web crawling.
* Allow users to track the price of a specific product on a supported retailer site.
* Notifies users through email when the price of a product drops below the user’s desired price.

**Specific Functions:**

User registration

* The user shall be able to register an account with a username, email, and password
* The system will validate the user’s input and check for conflicts in the database before adding the user

User login

* The user shall be able to log in to his/her account with the correct username/email and password combination
* The system will confirm the user’s credential stored in the database before granting access to the user’s product tracking page

Update user information

* The user shall be able to update their email for receiving notification
* The system will update the email address of the user in the database

Update login password

* The user shall be able to update their login password by providing their current password

Adding product for tracking

* The user shall be able to paste the link of the product page (e.g., Amazon) and set the desired price that they are willing to pay.
* The system will add the product link to the database as well as any related items.

Updating desired price of currently tracked product

* The user shall be able to update the wanted price of particular merchandise.
* The system updates the latest desired price of the product associated with the user in the database.

Removing a product for tracking

* The user shall be able to remove a tracking product on their list.
* The system removes the association between the user and the product, but will not remove the product from the database.

Browsing tracked products

* The user should be able to browser all the product they’ve tracked, displaying their current price and the desired price, as well as links to the actual product.
* The system will fetch all the product information that the user is tracking from the database and display it for the user.

Order products by

* The user shall be able to order the products by name, current price, or price difference.
* The system will sort the user specified criteria and display it for the user