

# Yaballe Backend Home Assignment

Write a server-side web service to allow users to get information about Walmart and Amazon products.

A *product* should have the following details: **Product ID, Title, Price, and Source (walmart / amazon)**.

The service should support the following operations:

## 1.

A user can ask to fetch Walmart / Amazon product details, given a product id (item id) and source.

Fetch the product information from Walmart / Amazon and save the product details to the DB. Return the product details in the response.

\* You can assume that the product details don't change often.

### Fetching Walmart Product:

For example - Walmart product:

product\_id: 153408764

source: walmart

<https://www.walmart.com/ip/153408764>

In order to fetch Walmart product details you will need to use the Walmart IO API call:

<https://walmart.io/docs/affiliate/product-lookup>

In order to have the headers required for the walmart api call ('WM\_SEC.KEY\_VERSION', 'WM\_SEC.AUTH\_SIGNATURE', 'WM\_CONSUMER.INTIMESTAMP', 'WM\_CONSUMER.ID') call the endpoint:

[https://ebazon-prod.herokuapp.com/ybl\\_assignment/walmart/headers](https://ebazon-prod.herokuapp.com/ybl_assignment/walmart/headers)

\* The TTL of these headers is 180 seconds

## Fetching Amazon Product:

For example - Amazon product:

product\_id: B076D9NXKN

source: amazon

<https://www.amazon.com/dp/B076D9NXKN>

In order to fetch Amazon product details you will need to use the following API call:

[https://ebazon-prod.herokuapp.com/ybl\\_assignment/amazon/<source\\_id>](https://ebazon-prod.herokuapp.com/ybl_assignment/amazon/<source_id>) GET

(example: [https://ebazon-prod.herokuapp.com/ybl\\_assignment/amazon/B076D9NXKN](https://ebazon-prod.herokuapp.com/ybl_assignment/amazon/B076D9NXKN))

\* You can use the price or source\_price fields in order to get the price

## 2.

A user could ask to get a list of products that already exist, matching a filter given by him.

The user should be able to filter by *source* and *price range* (for example: get all products from amazon within the price range of \$10-\$70)

## Considerations:

Make sure your code is clean, readable, structured properly, and following conventions.

Please use Python and feel free to choose your web framework (Flask, Django, etc).

You can use a DB of your choice.

We should be able to run your application and play with it.

You may submit your work as a git repository (Github, etc) or archived file.

Please submit your work to [office@yaballe.com](mailto:office@yaballe.com) with clear instructions on how to install/run.

*If you feel that some information is missing, or something is counter-intuitive, please use your creative freedom and comment on it or send us a question by email.*