We believe the best way to assess a developers ability and skillset is by seeing their code. This can either be applications, projects, services, or scripts you have previously written that you are proud to share or by implementing something new such as below. The code cannot be group based.

**Walmart Product Viewer**

Implement a Walmart product viewer application. The application can be built for any platform (web, iOS, Android, etc.) using any language and framework(s); whatever you are most comfortable with. The application should display a list of categories and upon selecting a category the first page of products are displayed.

The visual aesthetics of the app are not of importance, we will only be reviewing your code for coding style, clarity, design, architecture, robustness to handle bad data and errors, etc.

**Requirements**

* Use Walmart Open API (<https://developer.walmartlabs.com/>)
* Categories page that displays list of all categories
* Products page that displays list of the first page of products in a category. Product image is displayed.

**Bonus Points**

* Implement pagination to display all products on the products page rather than only the first page
* Implement client side search filter on categories page to filter displayed categories by name
* Implement client side search filter on products page to filter displayed products by name
* Implement product detail page or modal

**Questions**

* The Walmart API is generally pretty slow, what are some optimizations that could be implemented to improve the user experience?
* If pagination on the products page was not implemented, how would you implement?

(Total Product count)/ (max item per page) = number of total pages.

All decimals will be plus 1

Using for loop <= number of total pages (+1)

Multiply by max item per page as value for the next page items starting point.

Carry on current page parameter for next and previous page

(however Walmart API has max output, limit 1000, only can retrieve their json total page value to do the math and the Walmart API the ‘start’ parameter is not working properly of return the items)

* Any improvements you would make to your application?
* Navigation, handling broken image, hide the category with nothing inside, error return page

**Time**

One week to complete