



Argos Graduate Exercise

....or International Super Spy Confidential Document of Excellence

Your mission if you choose to accept it, well... you probably want to accept it because it's really cool working here at Argos!

Anyway... here at Argos we have a huge catalog of products to choose from and we are constantly striving to provide the best deals. Sometimes our consumers like the fact that we have great deals and they go onto a website called HotUKDeals and publish it there. The way in which HUKD works is that it allows other users to add heat to a particular deal.

The more heat, the higher it is on the "Hot Deals" page. Thankfully, HUKD now have a open developer API to allow us to consume this data and use it in anyway we see fit.

Please read the rules at the bottom of the page first before you start!

Your mission ("I feel that I'm repeating myself, but I'm so excited that I'm carrying on this Government Agent alter ego") is to:

Create a JSON API which will:

1) Extract the data from HUKD for Argos products, this should be the top 10 hottest deals but if you want to get more it's fine with me.

2) Using the data from HUKD and using another Merchants API such as Amazon, Walmart, Sears etc. (*see links*) :

Compare the prices, then provide the details of the Argos product that are "Hot" in the order of which there is a better price difference between the Argos product and the competitor.

This should be done as a service which provides a JSON response as opposed to the HUKD XML format, and it should be live so if a new Argos product is in the Hot Page then your service should reflect that



Create a webpage which will:

3) Display the information from your JSON API on a webpage, including but not restricted to:

- Top 10 Argos product
- Their "Temperature" from HUKD
- Price, Difference, URL for the deal, URL for the product, Description and Image

4) Make it look as cool as you can!

Create a GitHub or BitBucket repository then email us the Git URL, so we can be added to the project.

Please attach a README file on how we should execute your project as well as any additional features that you've added

[EMAIL US THE ABOVE 2 ITEMS to:](#)

argos@campusfutures.co.uk



Rules:

In this line of work there are always rules involved, but we only have a few:

- If you are using a Merchants API that is not located in the UK then you must change the price using the current exchange rate and then add a £20 shipping fee to it,
- Use any tech that you want, seriously guys any tech... we don't discriminate apart from punched cards!
- **If you are unable to complete a task you should mock it but focus on showing us your skills on the other tasks that you can do.**
- Have fun and innovate! We would love to see what else you can do with the data provided

Links

HUKD: <http://www.hotukdeals.com/rest-api/docs>

Tips & Hints:

HUKD don't provide a link to the product display page of the Argos website but there is a hacky way round.

`<deal_image>`http://static.hotukdeals.com/images/threads/2384651_1.jpg`</deal_image>`

You would have to extract the deals ID from the deal_image XML tag and concatenate that with the following <http://www.hotukdeals.com/visit?m=5&q=xxxxxxx>, that should then redirect you to the product display page.

This document probably won't self destructGood luck!