Square 1 Technical Assignment

We'd like you to help us create a new website, MyFavouriteAppliances.wow. On this website our users will be able to see a variety of home appliances, creating a wishlist of their favourite ones which can be shared with friends.

The application will use another of our sites as a primary data source - AppliancesDelivered.ie. Our new site should contain products from both the small appliances (https://www.appliancesdelivered.ie/search/small-appliances?sort=price_desc) and dishwasher (https://www.appliancesdelivered.ie/dishwashers) categories on site. Users will be able to see the data for these products presented in a clean and attractive format, regardless of the device they're using to view the site. Users can order the data by title or price.

When on the site, a user can create an account to save their favourite appliances to their wishlist. Their wishlist can then be shared with other friends. Their friends may not like the appliances the user has selected, so the user may also need to quickly remove items from their wishlist!

We'll want our new site to have good data, so need the ability to regularly sync new data from AppliancesDelivered.ie to our great new site. But keep in mind that our team also operates AppliancesDelivered.ie - if our new site gets very popular, we don't want to kill the current site with increased requests and server load, so we need to think carefully about how we handle this syncing process (how often it's run, when it's triggered, what we do with the resulting data etc).

We also need to allow for the case that AppliancesDelivered.ie may be down for maintenance, but we want our site to stay alive, so keep that in mind also when thinking about your approach here. The more confidence we can have in the continued operation of the site, the better!

At some point in the future, if this site is successful the data source may be migrated from this crawler approach to a more formal API-based approach, so keep that path in mind when structuring your code.

The above are the main points of the application, but if you feel the application can be improved or any interesting other features implemented, then feel free to go wild and show us what you got!

The output of the above should be a repository we can clone and run, following the setup instructions you provide.

We're aware that you're working on this in your own time, so don't expect you to spend a huge amount of time on it. It's more to give us an idea of how you interpret a brief, approach a problem and structure your application!