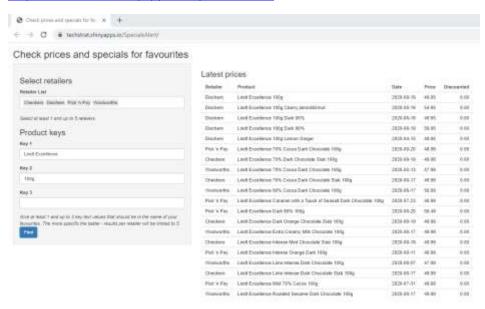
Favourites Finder and the trundler api

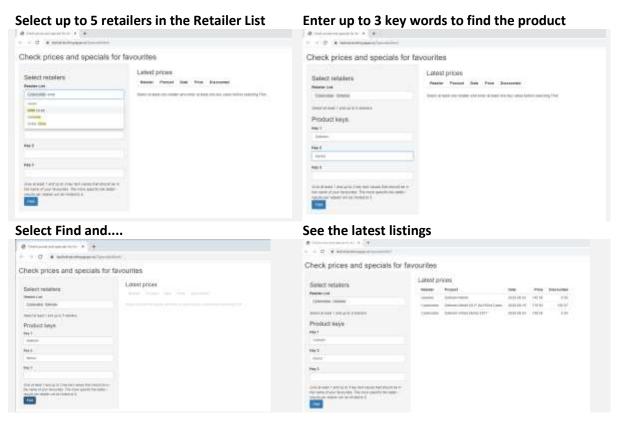
Lindt Excellence is delicious. It is also pricy. Which is why I stock up when I happen to notice that they are on special. If only I had an app where I can check for Lindt Excellence specials...

The **Favourites Finder** does exactly that. The r shiny app allows you to select up to 5 retailers, give up to 3 key words the product has in common across the retailers and click find. Within minutes the **Favourites Finder** lists the Retailer, Product and up to date price.

https://techstrat.shinyapps.io/SpecialsAlert/



Users steps



Make-up

The Shiny app uses the **trundler api**. It calls three functions from the trundler package:

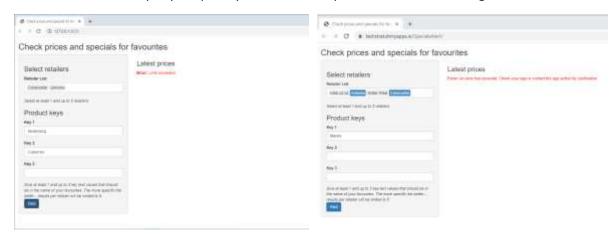
- retailer() returns the complete list of retailers
- retailer_products() returns a list of products containing the key phrases per retailer
- product_prices() returns recent prices for a specific product

Other package used are

- shiny
- tibble
- dplyr

Issues

When the same site is query frequently, the thundler api return an error message: Limit Exceeded.



It appears when a single web page is queried to frequently the web server temporarily locks the algorithm from querying.

The application has a 2 second delay built in before each time the retailer_products() or product_prices() functions are called. This helps to minimize the error feedback but does not remove the issue completely and negatively impacts the application response time.

Queries are also limited – a maximum of five retailers with a limited number of products per retailer and limited price history returned.

Suggested additions to the trundler api

- 1. A function that returns the latest price for a product. Currently the product_prices() function returns a history of prices for the product. This application only needs the latest price.
- 2. A function that returns a list of products along with their latest prices. This application calls retailer_products() to return the product list and then makes a call for each product with product_prices() to get the latest price.