

# React Coding Challenge

## Thank you!

Congratulations on making it to the coding evaluation in our recruitment process and thank you for taking the time to participate. We realise you have options and are excited that you are considering joining our team. At Flipdish we use an example of your code as the basis for a technical discussion with our engineers. This gives you the opportunity to present yourself in the best light. We look forward to hearing and seeing how you solved the problem and why you chose the solution you did.

Good luck!

## Render Flipdish restaurant menu

Read the following description of the menu data object at Flipdish and create a solution that renders the menu in the browser. To facilitate easier evaluation by Flipdish engineers, our preference is for a JavaScript solution, but you can use any programming language you choose. We also like to use ReactJS.

- The restaurant menu object contains sections (such as Starters, Curries and Soft Drinks) and items within each section (such as Vegetable Spring Rolls, Massaman Curry and Coca Cola). See the data structure explanation below.
- Choose a suitable layout and style to render your menu
- At a minimum, your solution should display the menu item name and image. Ideally it will show the description and price as well (if present).
- You may submit your code via github, or other hosted environment. Alternatively, send in the files for compilation and include any necessary instructions to launch your solution.
- Our engineers will invite you to discuss the technical aspects of your solution either in person or via video call with screen sharing.

## Data Structure

The Flipdish menu combines the products (**MenuSectionItems** & **MenuOptionSetItems**) and layout in a single structure, known as the **Menu**.

The Menu is made up of MenuSections which contain **MenuSectionItems**.

MenuSectionItems may be standalone or contain **MenuItemOptionSets**. Each MenuItemOptionSet will contain one or more **MenuItemOptionSetItem**.

## MenuItemOptionSets

A MenuItemOptionSet contains a boolean flag named `IsMasterOptionSet`. This would be set to `true` for options that could be treated as standalone products, as opposed to additions to a product (eg. "Ketchup") or a modification to a product (eg. "large").

When `IsMasterOptionSet` is set to true on a MenuItemOptionSet, the price of the menu item is calculated based on the MenuItemOptionSetItems in the MenuItemOptionSet, and the price set on the MenuSectionItem is ignored.

## Sample Menu

<https://menus.flipdish.co/prod/16798/e6220da2-c34a-4ea2-bb51-a3e190fc5f08.json>