Falabella Challenge Documentation

Author: Alejandro Grez

The following documentation contains the relevant aspects of the solution for the Falabella Challenge.

Run solution

Solution is a React Web Application located on the branch "solution". To deploy it, first it is required to run command *npm install* to install the node dependencies. Next, run command *npm start* to run the application.

Components

The project consists of two main components:

- Row component: It contains properties *text* and *color*, that respectively define the displayed text and color of the component.
- List component: It contains most of the logic in the project. It receives as parameters a *length* and a list *multipleMappings*; each element of the list contains a *number* and a *text*. It generates a list of Row components where, for each Row:
    - if its position is multiple of some number in the *multipleMappings*, then its text is the text defined by that mapping and its color is a green-yellowish tonality assigned to the mapping.
    - otherwise, text is defined as the its position in the list and the color is white.

The remaining is the main App component, which contains a List component with length property equal to 100, and the following multipleMappings specified for the challenge:

- number: 3, text: 'Falabella';
- number: 5, text: 'IT';
- number: 3 * 5, text: 'Marketplace'.

Unit Tests

The main function of the solution is *generateRowProps(length, multipleMappings)*, which is located inside the List component. This function generates the properties for the Row components of the list. The following tests are defined for this function:

- Test 1: it verifies that, when a mapping is received, only the corresponding multiples for that mapping must have the defined text, while the rest must contain only their position in the list.
- Test 2: it verifies that, if there is a mapper that is multiple of another, the last one of the list has priority.