

React Technical Assessment

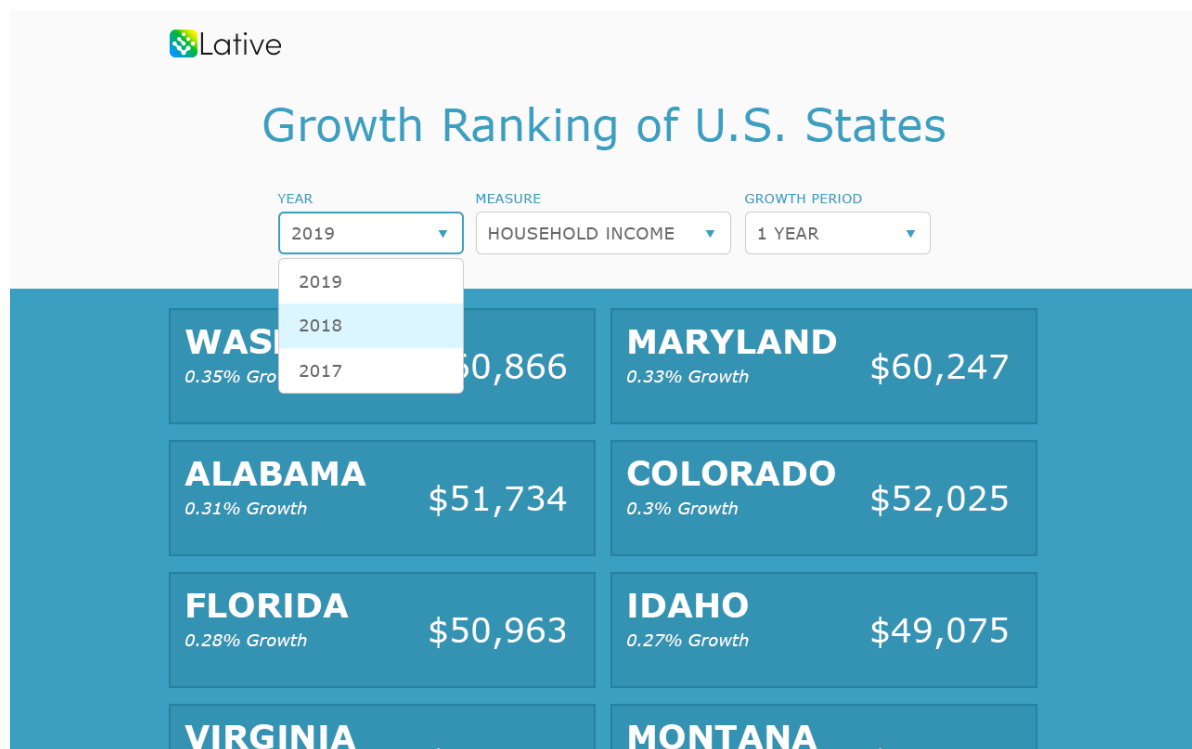
Coding Challenge

We would like to see how you implement and test the following high-fidelity mock-up in HTML, CSS, TypeScript, and ReactJS.

You can download [here](#) a ZIP file which includes the site's design and a base React project you can use as a starting point.

Please feel free to change anything on the project code, folder structure, libraries or look and feel you think can be improved.

You have up to a week to send your source code, either by sharing a link to your GitHub repository or by sending a ZIP file to your contact at Lative.



The Problem

The board should display a list of all U.S. States ordered by growth in descending order according to the selected period.

The options for the Dropdowns are static and set to the following:

- **Year:** 2019, 2018, 2017, 2016 and 2015.
- **Measures:** Population, Household Income and Property Value.



- **Growth Period:** 1 Year, 2 Year and 3 Year.

You can consume the following public API to obtain the list of U.S. States and its measures. For this exercise you will only need to use the **data** attribute in the response:

<https://datausa.io/api/data?drilldowns=State&measures=Property+Value&year=2018,2019>

Growth Calculation

The 1-year growth for the Alabama State in 2018 is **4,67%** because Alabama's property value went from \$141,300 in 2017 to \$147,900 in 2018 so the YOY growth rate is:

$$(\$147,900 - \$141,300) / \$141,300 = 0.0467 * 100 = 4,67\%$$

Acceptance Criteria

Functionality:

When selecting any dropdown value:

- 1) A HTTP request must be performed to the API to retrieve all the States's data.
- 2) Each State box should contain the following information:
 - **State Name:** attribute from the JSON response.
 - **Growth percentage:** must be calculated.
 - **Measure:** attribute from the JSON response.
- 3) The board needs to be rendered in descending order of Growth percentage.

Tests:

Please Unit Test all relevant behaviour/functionality and ensure all tests pass successfully.