

Fullstack Test

Purpose

The purpose of this test is to assess your knowledge of JavaScript and PHP, your ability to read and follow project specifications, and your understanding of best practices. This is an opportunity to show off your knowledge of Javascript, PHP, and your skill as a developer. We hope you enjoy the challenge.

Goal

As a user, I want to search for countries by name, full name, or code and view them as a list of elements on an HTML page so that I can find the country data I am looking for.

Acceptance Criteria

Use the REST Countries api as your data source (<https://restcountries.eu/>).

An HTML form input will accept the string of a country name or code.

An error message will be emitted if users submit the form without input or if the search yields no results.

The form data must be submitted via Javascript to a PHP server that then will retrieve data from the REST Countries api and return it to the frontend. Do not attempt to cache results from the REST Countries api. The PHP endpoint you build should return JSON and include all the data necessary to render the view as described. Search is possible by country name, full name, or code. On the server sort the countries returned by population in descending order. The page should not reload.

The search results should be displayed on an HTML page. For each country displayed include: the full name, alpha code 2, alpha code 3, flag image, region, subregion, population, and a list of its languages.

At the bottom of the page show the total number of countries and list all regions and subregions contained in the results with the number of times it appeared.

Tools

To get started we have provided a template (<https://github.com/infoseci/fullstack-template>) with a script to start a PHP server. You may also want to roll your own. If so, you may use any PHP

library you want to create the PHP endpoint except for any REST Countries PHP SDKs. If you roll your own, your code must work using PHP's built in HTTP server (php -S) and you must provide with your code instructions for starting the server. Your PHP code should work on PHP 7.0. or higher.

You may use plain JavaScript, or a library like jQuery, React JS, or your preferred JavaScript library. Your code does not need to work in older browsers but should work in the latest stable version of Chrome.

Submission

Please submit your finished project in the form of a publicly-accessible Git repository (e.g. Github or Bitbucket). This should include an index.html where we can view the final results.

Optionals

Use React js for your javascript.