

## **Request**

Create a single api endpoint that consumes an existing CPS api, performs a calculation on the data provided, and appends the calculated fields to the response object. Use any development framework and technologies you prefer. Project should compile, and your api endpoint should be accessible when running under localhost.

Location of source data api documentation:

<https://api.cps.edu/Calendar/>

Source data api endpoint to use:

<https://api.cps.edu/Calendar/cps/calendarslist>

The source endpoint returns multiple values for student demographics. These are:

ColorCode

ParentID

Status

TagID

Type

CalendarID

CalendarName

Create your endpoint so that the ColorCode attribute of the response is renamed to convey that this attribute will always represent a hexadecimal HTML color value. Your endpoint's response signature should otherwise be identical to the source `calendarsList` endpoint. Your project should have an api description/documentation page, to explain your response object's attributes.

The naming convention of your modified attribute(s), endpoint, and any created classes or functions is up to your discretion. Your project should only have 1 accessible api endpoint, but it should be completed with any support libraries you feel necessary. Try your best to build the endpoint as if it were going to be deployed to a production environment. Include any code comments and documentation you would normally expect to include in a project of this type.