



Front-End Internship Coding Challenge

## Goal:

Using vue or react, create a table which calculates the GPA off of a list of students. New students can be added via user input.

## Project Specs:

- Table with 6 columns: Name, Math, History, Science, English, GPA.
- 5 text inputs labeled Name, Math, History, Science, and English.
- A button to input a new student defined by the text inputs.

## Requirements:

- Built using Vue.js or React.js.
- Uses provided json file as initial data.
- Basic input validation.
- The student with the top GPA will have their row highlighted green and the student with the lowest GPA will have their row highlighted red.
- If multiple students share the top or lowest GPA are highlighted accordingly.
- If a student is added with the highest or lowest GPA, the table will correctly highlight the student or students.
- Project is uploaded onto github.

## Notes

- If any of the instructions are unclear, feel free to send an email addressing them.
- Any additional development is not required, but is encouraged.
- Extra development to consider:
  - Use a Store (ex Redux/Vuex).
  - Create CSS styles/Animations.
  - Save new students into the json file.
  - Create remove functionality for students.
  - Creative liberties - add in a feature not listed here!

## Basic Examples:

### Default State:

Name	Math	History	Science	English		Add Student
Name	Math	History	Science	English	GPA	
Adam	A	B	A	B	3.50	
John	B	B	B	B	3.00	
Will	C	B	B	C	2.50	
Alex	D	B	C	B	2.25	
Phil	F	B	C	D	1.50	

### New Top Student:

Name	Math	History	Science	English		Add Student
Name	Math	History	Science	English	GPA	
Adam	A	B	A	B	3.50	
John	B	B	B	B	3.00	
Will	C	B	B	C	2.50	
Alex	D	B	C	B	2.25	
Phil	F	B	C	D	1.50	
James	A	A	A	A	4.00	

### Multiple Top Students:

Name	Math	History	Science	English		Add Student
Name	Math	History	Science	English	GPA	
Adam	A	B	A	B	3.50	
John	B	B	B	B	3.00	
Will	C	B	B	C	2.50	
Alex	D	B	C	B	2.25	
Phil	F	B	C	D	1.50	
Tom	A	D	F	B	2.00	
Corey	A	B	B	A	3.5	