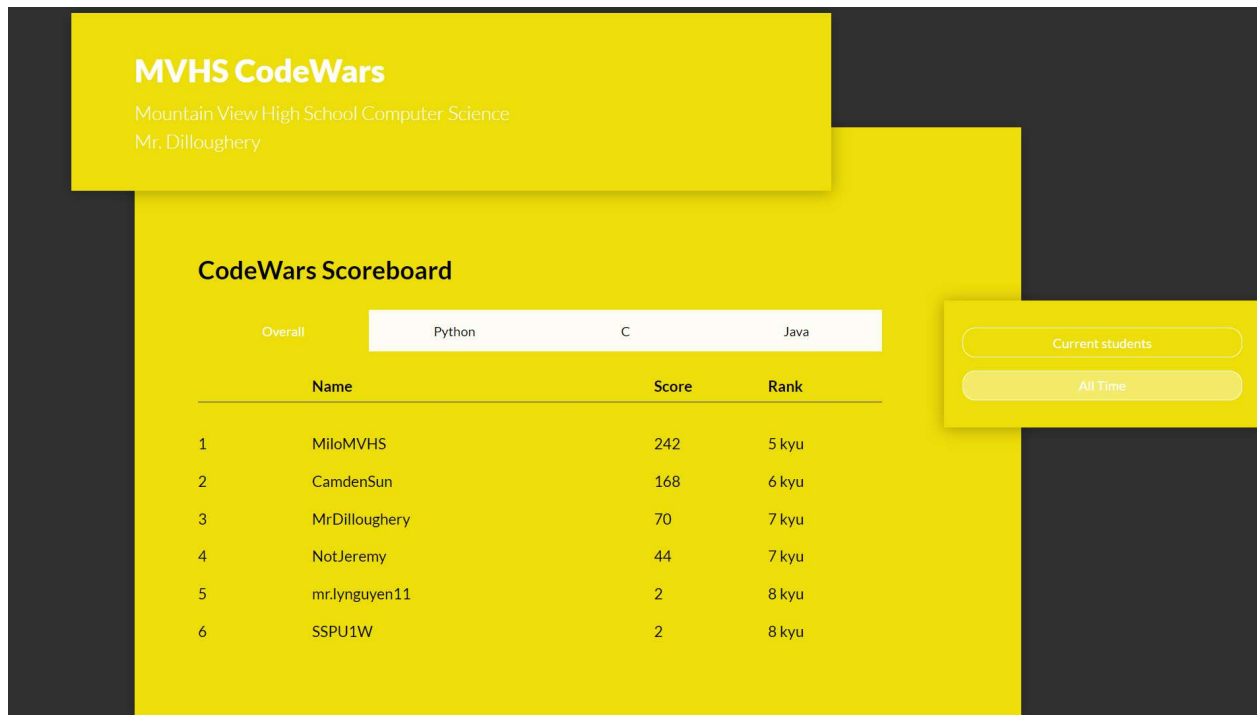# MVHS Codewars App Documentation:

Purpose of the Project:

An interactive React.js web application that allows for students to compete with one another in the popular code-application Codewars. The web app displays the varying ranks of current students, as well as the current score of each student. Using Codewars API, you can easily grab both the rank and score for each user for Overall, C, Java, and Python categories. This allows for students to want to practice their coding, as it provides fun competition in the classroom.

How the Project Works:

The app itself is built to be used with Codewars, but intermediate level programmers can easily use it with other platforms. Additionally, the app pulls the Codewars username, year of the student, and if the student is or is not a current student from the a google spreadsheet.
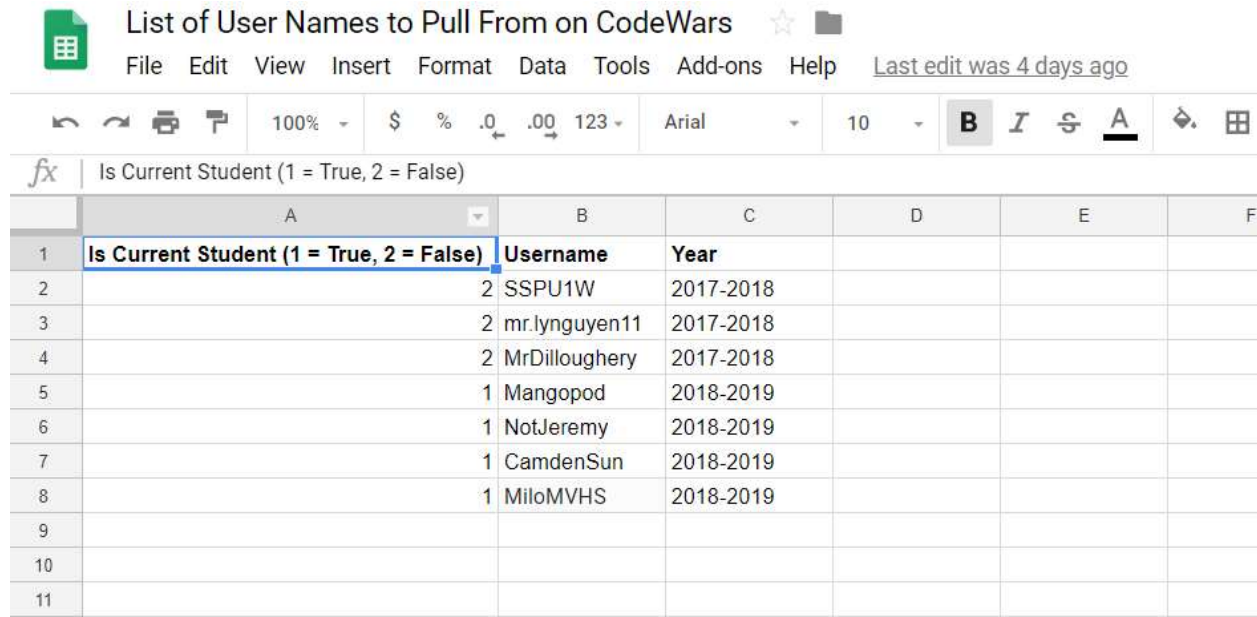

Here is a screenshot of the Codewars app currently being used at Mountain View High School. I would highly encourage those who plan to use this app at there school to edit the colors to match their school colors. This can all be accomplished in the App.css file. The code itself is fairly self explanatory (I.e: .scoreboard-container) is referring to the the actual scoreboard itself, to change the color of the scoreboard

edit the background color line to a different hexcode.

Next, to pull from your own google sheets you need to go in and edit the config.js file. The config.js file is where you will put in your API key for Google Sheets as well as your Google Sheets link to pull from.

Here is an example of how yours should be formatted, for your particular school.

Next, if you would like to edit wording, or add different types of ranks direct yourself to the App.js file. This file is where the bulk of the code is, and other than the config.js, Scoreboard.js, and App.css files, should be the only file that you should be concerned with for program editing.

In the App.js file you can edit the filter box to add for more boxes (perhaps you want to filter by class, or filter by group etc.)

You also can add more features and more rankings.
Here is a link of the .json file of one user in the MVHS Codewars:
https://www.codewars.com/api/v1/users/MrDilloughery

In this link you will find, more information about a user, such as challenges, completed challenges, clan, and much more.

If you want to add these to your Codewars scoreboard, simply direct yourself to the Scoreboard.js file, and add a new tab.

For example:

```
<div className="score">{user.clan}</div>
```

For Advanced React Programmers:
If you have been coding in Js for quite some time, this section is mainly for you. There are several cool features which can be implemented into this code. At the moment, if you hover your cursor over the each name on the scoreboard, you may notice it appears to be clickable, however it will not work at the moment. You can easily implement in a feature where website users can click on a certain member of the scoreboard, and be redirected to another part of the site, which will show more information about the user, and maybe even a little profile that the students can enter in themselves.

Secondly, you can implement a live updating feature. This would be great for people who want to witness the updates happening live. Add a button or toggle for "Live Mode" and create animations which can show users overtaking one another.

These are just two things you can add into this program, the possibilities are pretty much endless.

Closing Remarks:
The code itself is quite readable, fairly efficient, and for anyone with programming experience should be quite easy to customize to their liking. This project has a lot of possibility, and with some work can go a long way.

Good luck with your future projects, and if you have any questions for me regarding this project, feel free to reach out to me on Github!