Setting up Cody Leaderboard

This document will go over how to set up the leaderboard for the Cody competition. All files needed to set up the leaderboard can be found in the folder titled ‘Leaderboard Code.’ To run the code, you will need MATLAB downloaded on your computer. MATLAB 2020b was used to make these files.

To set up the leaderboard follow these steps:

1. Open MATLAB
2. Set your current directory to the folder titled “Leaderboard Code”
3. Open the file titled “CodyAmbassadorsContest.prj.” This will ensure that all the files are set up properly and open the app to create the leaderboard
4. An app will appear. Fill in the fields with the information of your competition. If you have any questions, here is a description of each field:
   1. Scoreboard Settings tab
      1. **School Name:** The name of your university
      2. **Email Domain:** This will be the last part of your university email address after the @ symbol (e.g. fsu.edu or Nottingham.ac.uk)
      3. **Problem Group ID:** The ID for the Cody problem group. This can be found on the last page of the Competition Guidelines where it lists the problem groups that you can use.
      4. **Start Date:** The day your competition to begins
      5. **End Date:** The day your competition ends
      6. **Scoreboard Filename:** The name you want to save the files as
   2. PNG Options Tab
      1. **Max Players Displayed:** The maximum number of top players you want to show in the leaderboard. The maximum number of players you can show is 30.
      2. **Background Image:** The image you want to display in the background of the leaderboard. Click the ‘Choose Image’ button to select a file from the file explorer. PNG and JPG files only.
      3. **Theme color 1:** Color of the text in the leaderboard. Input color as RGB value.
      4. **Theme Color 2:** Color of the markers and highlights in the leaderboard. Input color as RGB value.
      5. **Line color:** Color of the lines in the table. Input color as RGB value.
   3. GIF Options Tab
      1. **Players Displayed:** The maximum number of top players you want to show in the leaderboard. The maximum number of players you can show is 20.
      2. **Bar Color:** Color of the bar plot in the gif. Input color as RGB value.
      3. **Highlight Color:** Color of title and bar lines. Input color as RGB value.
      4. **Background Color:** Color of the background. Input color as RGB value.
5. Select the desired output. There are 3 output files that you can choose. Regardless of the option you choose a .xlsx file will be generated of the entire leaderboard
   1. **PNG:** This option will output a picture of the leaderboard in a table.
   2. **GIF:** This option will make a short video showing how the rankings have changed over time
   3. **HTML:** Choose this option if you want to post the leaderboard on a website.
6. Press the ‘Generate Scoreboard’ button
   1. This will start the code to create the leaderboard. This will take a couple minutes. You should see the names of the problems in the group gradually appear in the MATLAB command window.
   2. If there are no participants that appear, a message will be displayed saying this when the code is finished running
7. View the files generated to ensure that nothing is missing