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26 April 2021

Intro to Computer Science II

User Manual for Application

Hello User! My name is Aiden Feigenbaum and I have developed an App called “NCAA Coaches Data Analysis” that takes in a public dataset on the USAA Today website about the salaries of College Football Assistant Coaches. Within the dataset exist ten different columns, with exactly half of them being used within the code analyzing the data.

The way that the user can access and launch the application is by running the “TestMain.java” file within the “src” folder of the “final-project-data-gui-aidenf5” on GitHub. Once run, the code is compiled and the application is opened, including all of the JavaFX aspects of the GUI, in a separate program most likely automatically opened on the user’s computer called “java”.

There were three main questions answered by the code that I developed. The first question asks for the minimum, maximum, and average scheduled school pays of all of the coaches that have values within that row. The second question allows the user to choose one of the five conferences within the dataset and find out the top three coaches within that conference that have the largest pay reduction (between contract year pandemic pay reduction and scheduled school pay). The final question allows the user to choose one of the five conferences as well and the application will display the top paid coach (average school pay) within that conference and how much they were paid.

The insights from the first question are rather straightforward, as there is only one possible input for the dropdown menu within the question. Nonetheless, with the minimum, maximum, and average salaries being $100,000, $2,500,000, and $496,059, respectively, it is clear that the average coach is nowhere near earning a million or more dollars annually.

Within the second and largest question, it is quite clear that there are many insights to draw from this aspect of the application. With five different conferences to choose from, the user can immediately find out which coaches lost the most as a result of the pandemic. It also appears that some of the highest overall paid coaches lost the most, despite the fact that the measurement is based on percentage as opposed to directly monetarily. For example, the highest earner of all of the coaches across all conferences, Brent Venables, while not having the highest overall percentage cut of salary, lost 10% of his entire salary of $2,400,000. Clearly it seems as if the schools had more of a motivation to cut more from those already earning a lot than from a more percentage based approach.

Finally, the third question is also quite straightforward, just like the first question, in that it only outputs one specific coach per user-input conference and their salary. One of the main insights one can draw from this question would be to confidently state that the highest earning coach earned $2,500,000 and was a part of the SCC conference, tying with another coach that also earned the same amount.

The user can test more of the inputs than discussed here, but there are also seven different test cases at the end of the “TestMain.java” file that automatically ensure that the data being presented within the application matches up and is correct.