Pitt Tours Database System

**USING THE PROGRAM**

Before running:

* Verify that you have the required postgresql jar.
  + The version used for this program is postgresql-42.2.18.jar

Running the program:

* If using a computer that can run the included batch file, simply enter “team04” and press enter.
* If you cannot run the batch file, the complete the following steps:
  + Enter “javac team04.java”
  + Enter ”java -cp postgresql-42.2.18.jar;. team04”

Navigating the program:

* Immediately you will be prompted to enter your database credentials.
  + At any point during the sign in process, you may enter the character “/” if you have made a mistake and need to restart.
  + After all credentials are entered, you will be immediately signed in if the credentials are valid. If they are invalid, you will be prompted to enter information again.
* You will then be prompted for your role. Choose your role by choosing the number associated with it (ex. **1**. admin).
* You will then be prompted for a number of functions that our system has implemented. Again, choose the associated number to perform tasks.
* Tasks will ask you for specific items, if there is an error, you will be notified.

Quitting the program:

* Simply select the “Quit” option. You will be disconnected from the server, and exit the Pitt Tours program.

**ROOM FOR IMPROVEMENT**

One possible area for improvement could be to the Java file. Although the file functions as it should, it was developed by three people with different coding styles and ideologies on how to accomplish certain tasks. If this file were to be later further developed upon, and for the sake of readability, the code be refactored down to one style. This could be done using a linter, such as CheckStyle: A Java Linter. Although this change isn’t functionally necessary, the file is approaching 1300 lines of code and refactoring the code to make it cleaner would be probably be considered at one point or another.

Additionally, having a more comprehensive and standardized means of testing the program would be useful for adding further functionality and verifying that no bugs or unexpected behaviors were overlooked. Much of the testing had to be done by hand, and relied on looking at data entries one by one. Usually this was on small datasets too, which could potentially lead to missing unexpected behaviors on larger datasets.