# Cognito Log Audit Report Analysis

Log Analysis by: David Abbot

**Overview:**

The Cognito log audit reviewed all columns of the .csv audit by Isaac Bamidele and was performed by Chase Currie. It notes that the logs are of logging activity of users of our application.. It explains the audit steps, noting that python was used with the library Pandas library to create statistics of the logs and the library MatPlotLib used to graph the frequency of the values.

**Results:**

Output of the audit process is shown, with the following graphic shown:
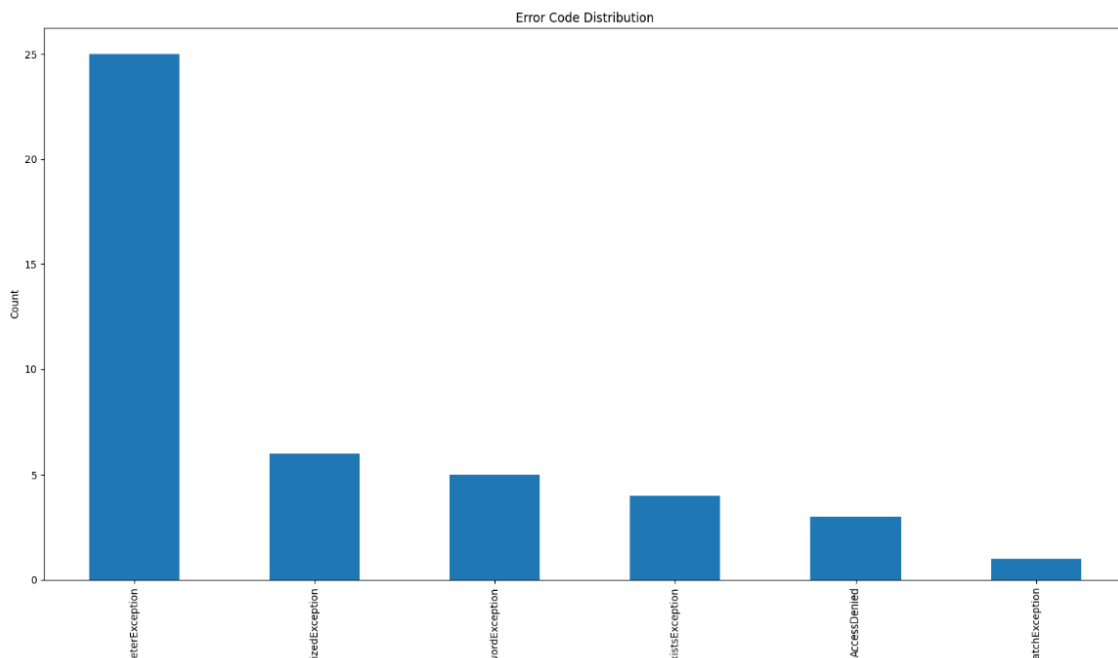


It is then notes the two highest frequency errors, starting with InvalidParameterException has the highest frequency and followed by NotAuthorizedException. It is correctly noted that these are user errors and not errors on part of the application's functionality with Cognito, and in facts help to show that the interaction between the application and Cognito results in correct handling of log in errors, which I can confirm when testing the application, and is a boost to the security functionality of our program.

**Conclusion:**

The audit report by Chase Currie concludes the error codes generated by the audit are all benign rather than detrimental to the functionality of the application, which I would agree with. The authentication and authorization performance of the user function of our application is working as intended according to our log analysis.