

Term Project: Password Analysis

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Problem

Passwords are the last line of defense for swaths of sensitive information and services. Despite this, many people use short, easily guessed passwords that leave themselves vulnerable to all sorts of malicious forces. Why do people do this? Maybe they are scared to forget their passwords or do not know what makes a strong password.

Solution

We propose building a password analyzer that promotes robust internet security. Users will enter their password into a web application that will send the password to our servers for examination. We will run a series of checks on the password to determine its strength via entropy and compare it against a list of commonly used passwords. After analysis, the web-application will display the password's strength, and if needed, recommend possible improvements to the user. A containerized approach will be used during development to bridge the gap between different teammates environments. In addition, developers can run both the client and server-side components of our solution on a single machine and facilitate communication between them.