

Milestone One

Team Name: Hackerfam

Members:

- James Gallmeister (jamgall)
- Tia Basak (tiabasak)
- Mathew Sadeik: (kryptonics)
- Lorenzo Repenning (Loon911)
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Description

Our web app will allow users to enter a string that they are considering using for a password and check if it is in the dictionary files used for hash cracking that are included in kali Linux. This will be done by importing the contents of the dictionary files into a simple database and querying the string against the database to see if it exists in the database.

Additional functionality could be added if there is time and a need for more features. This may include password storage, though that would require extra encryption, or it could be used to generate a secure password. We will be using NodeJS for the backend architecture and MySQL for the database. Frontend will be standard HTML & CSS.

This product would be useful for being able to keep passwords secure. It can be used by large corporations, and small business to keep all company data secure by making sure that there is a secure password. The database is great way for ensuring a protection on data.

Vision Statement

To ensure that people can avoid dictionary attacks by choosing uncommon passwords that they know are not in the common dictionaries

Motivation

To ensure security among large corporations, small businesses, and individual users who want to keep their content, and employees safe from various hackers.

Risks:

- 5% members have no experience with Node JS
- Not extensive enough of a database

Risk Mitigation Plan

- Get Familiar with Node JS
- We will get as many dictionary files as possible, among the standard toolset

Version Control

We have created 'Milestones', 'DevProjSrc' and 'MeeetingNotes' repositories to store all our relevant information. The links to all three are as follows:

- www.github.com/jamgall/Milestones
- www.github.com/jamgall/DevProjSrc
- www.github.com/jamgall/MeetingNotes

We have shared the repositories with our TA and as of October 2nd we do not have Professor Paradise' git account but once that is obtained we will share it with him as well.

Development Method

We plan on using agile/scrum. We will check each week to see what each member has done since the last meeting, what they plan to do until the next one, and if anyone needs any help fixing any of their issues.

Collaboration Tool

We are using Email, Git, Google Drive, and WhatsApp.

Proposed Architecture

For the back end we will be using NodeJS, and we will also be using SQL for the database. For the front end we will be using HTML, CSS, Javascript. For middleware we will use Ajax. The front end will take the user input on passwords. The backend will determine if the password is safe or not by hashing it with md5 and querying the database for a matching hash. Then the back end will send input back to the user telling him/her if the password is safe.