INTERNET AND WEB SYSTEMS 1- (Fall-2018)

PROJECT REPORT - 4

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Problem Statement

Passwords management is one of the biggest issues faced by many people. I also discussed this issue with my Professor. He also suggested this would be a good project for an elevator pitch or a startup instead of trying for an automation project which I was previously working on.

Key problems

Some of the key problems being faced in managing passwords and existing password management tools are as follows

- Remembering all the usernames and passwords which will be a too much now a days. So, people mostly end up using the same password/repeating the passwords across multiple logins which is highly not secure and a very bad practice.
- Trusting a password management tool is not easy. Currently no industry/ no website can be trusted with password. For instance, let's say someone is using a third-party software management tool. The third-party software management tool server has all the user names and passwords which can be very dangerous if they are compromised.
- Password management tools not available at multiple platforms.
- Cannot access my password if I am using a computer which do not have my password management tool. For instance, if I am trying to login from my University lab computer to some website, I will be facing too much issues since the university computer does not have my password management tool installed.
- Using the right combinations instead of a password which can be guessed or cracked easily with the currently available computational power.

Solution

I started working on a password management concept where I don't need to trust on any server/vault instead I can just use an algorithm which can get my password on the go. I am currently working on the web portal for this idea. Once it is completed, I am also going to focus on multiple platform accessibility problem.

The main idea behind this project will be no database. Your passwords will not be saved anywhere so that it will be very trust worthy and secure

References

1. https://www.dummies.com/programming/networking/be-aware-of-password-vulnerabilities-to-avoid-getting-hacked/
2. http://theconversation.com/passwords-security-vulnerability-constraints-93164
3. https://doubleoctopus.com/blog/need-know-password-vulnerabilities-pt-2/