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CSE 440 Section AD

## Assignment 1b – Project Proposal

### Motivation:

The idea of an “account” is an important one when talking about the internet. Many websites require an account before even letting you look at them. An account directly links you and the information you provide about yourself to the services you seek and communications you send. The internet plays a huge role within the lives of people in today’s society. People have become deeply dependent on the internet to provide services such as shopping, entertainment, health, and communication. A person’s whole life, the good and the bad, can be represented through their search history. Because accounts are often required to access information through the internet, it has become ever so important to secure them. An overwhelming amount of information about a person’s life can be told and controlled through the accounts they hold.

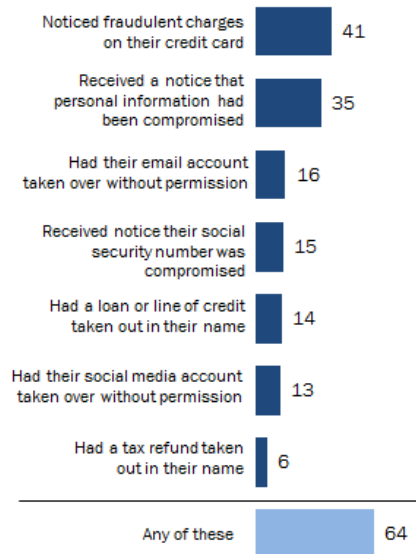


### Analyze the Problem and Possible Solution:

Accounts are used everywhere. You must have an Amazon account to shop on Amazon, a Facebook account to connect with friends, or a Netflix account to watch shows. With account creation being so common as it is, it has become more difficult to maintain all of them and ensure that those accounts do not become compromised. With the amount of sensitive information provided to those accounts, such as credit card information, it has become the utmost importance to ensure that those accounts do not fall into the wrong hands. Data theft is a big problem affecting millions of Americans today. According to the Pew Research Center about 41 percent of American adults have noticed fraudulent charges on their credit cards; About 35 percent have received a notice that their personal information has been compromised. A preventative measure to help remedy this problem would be a way to group these accounts together and track their login and post activity for suspicious behavior. With this, a compromised account would be noticed more quickly and thus be able to be dealt with sooner, minimizing damage.

#### Many Americans have experienced some form of data theft

*% of U.S. adults who have ever ...*



Source: Survey conducted March 30-May 3 2016.  
“Americans and Cybersecurity”

PEW RESEARCH CENTER

References:

<https://www.digitalunite.com/technology-guides/using-internet/connecting-internet/how-connect-internet>

<http://www.pewinternet.org/2017/01/26/1-americans-experiences-with-data-security/>