

Security of Personal Finance Mashups

Abstract

This capstone project investigates the security of personal finance mashups. Personal finance mashups are a web 2.0 phenomenon that allow a user to enter usernames and passwords for bank accounts, credit card accounts, investment accounts, and other accounts; mashups then aggregate balances and transactions of these accounts in one user interface. Approximately one in four Americans uses personal finance software. The project examines the strength of the password policies for several popular personal finance mashups and the vulnerability of these mashups to form grabbers and keyloggers. Additionally, a model of “delegation permits” developed by Hasan, Conlan, and Ramani is presented. This model prevents a mashup from violating the principle of least privilege.

Financial Mashup Model

