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Week 5: Threat Modeling

**Threat Model  
(Hypothetical based on OPL library user)**

**Patron:** Mary

**Description:** Mary comes to the library several times a week to apply for jobs, download bank statements, and to check her Facebook and e-mail. Sometimes she uses the library computers and sometimes she brings her laptop and uses the library’s Wi-Fi. She has some cognitive challenges and has difficulty remembering.

**What Needs Protecting?:** Mary’s bank accounts and personal information.

**Who Is She Protecting it From? (Adversaries):** Cyber thieves, other people using the library.

**How Likely Is It That She Needs To Protect It?** If Mary isn’t using a secure connection and strong passwords her banking information, social security number and other important information could be compromised. Currently she isn’t using two-factor authentication and uses the same password for most of her accounts.

**What Are the Consequences If She Fails to Protect It?:** Possible identity theft, stolen money

**How Much Trouble Is He Willing to Go Through To Protect It? (Tools she’s willing to adopt):** Since Mary has trouble remembering, she agreed to create passwords using the Dice Ware method. She created new passwords for each account and wrote them down in a password notebook that she will keep in a safe place. We had a discussion about only logging into secure sites and typing the bank url in the address bar rather than googling it to help ensure she’s in the right site.

We also had a conversation about using the library computers instead of connecting to the library’s wi-fi on her laptop since our wi-fi connection isn’t secure. I explained that our library computers are updated regularly, that her session is cleared after she uses the library computers and all of the data is dumped at the end of the day so her information will be safer on the library computers. Finally, she will log out of all of the sites when she finishes and clear her browser history at the end of her session.