



Hardware Password Manager

Secure your passwords, protect your
life: Trust in our hardware
password manager.



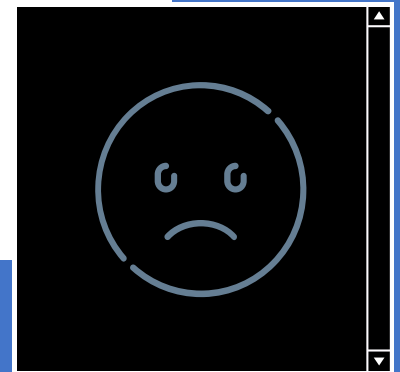
Team 2

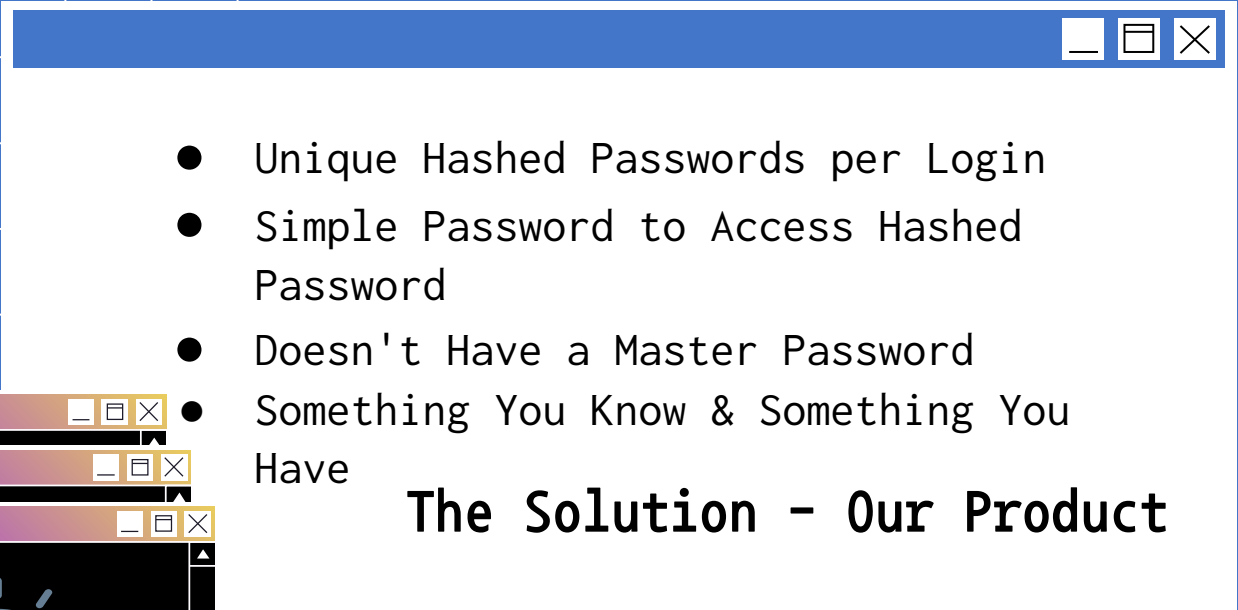
OK



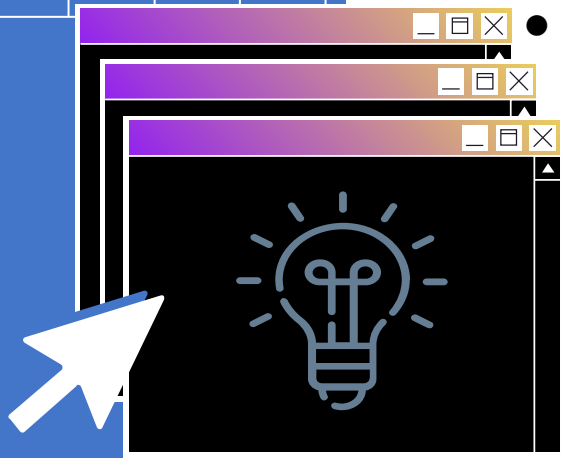
The Problem

- Vulnerable Passwords
- Remembering Good Passwords
- Master passwords



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- Unique Hashed Passwords per Login
 - Simple Password to Access Hashed Password
 - Doesn't Have a Master Password
 - Something You Know & Something You Have

The Solution - Our Product



Connecting the Keyboard + + +



PS/2 Keyboard

- Uses Arduino Library PS2Keyboard
- Simple protocol with minimal processing power
- Con: PS/2 keyboards are less common

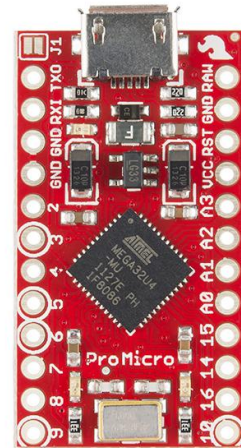
Keystroke Injection

Arduino Keyboard Library

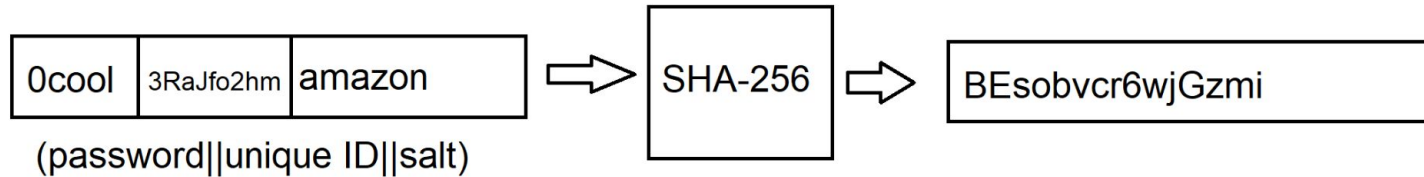
This library allows 32u4 and SAMD based microcontrollers appear and act as a HID

Possible Boards

- Arduino Leonardo
- Arduino Pro Micro
- Arduino Zero

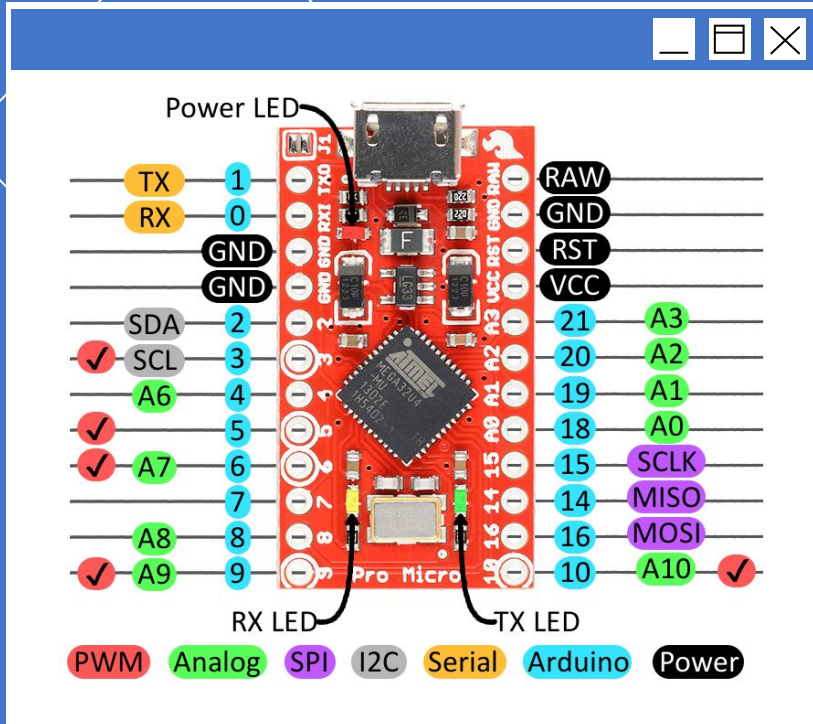


Password Hashing

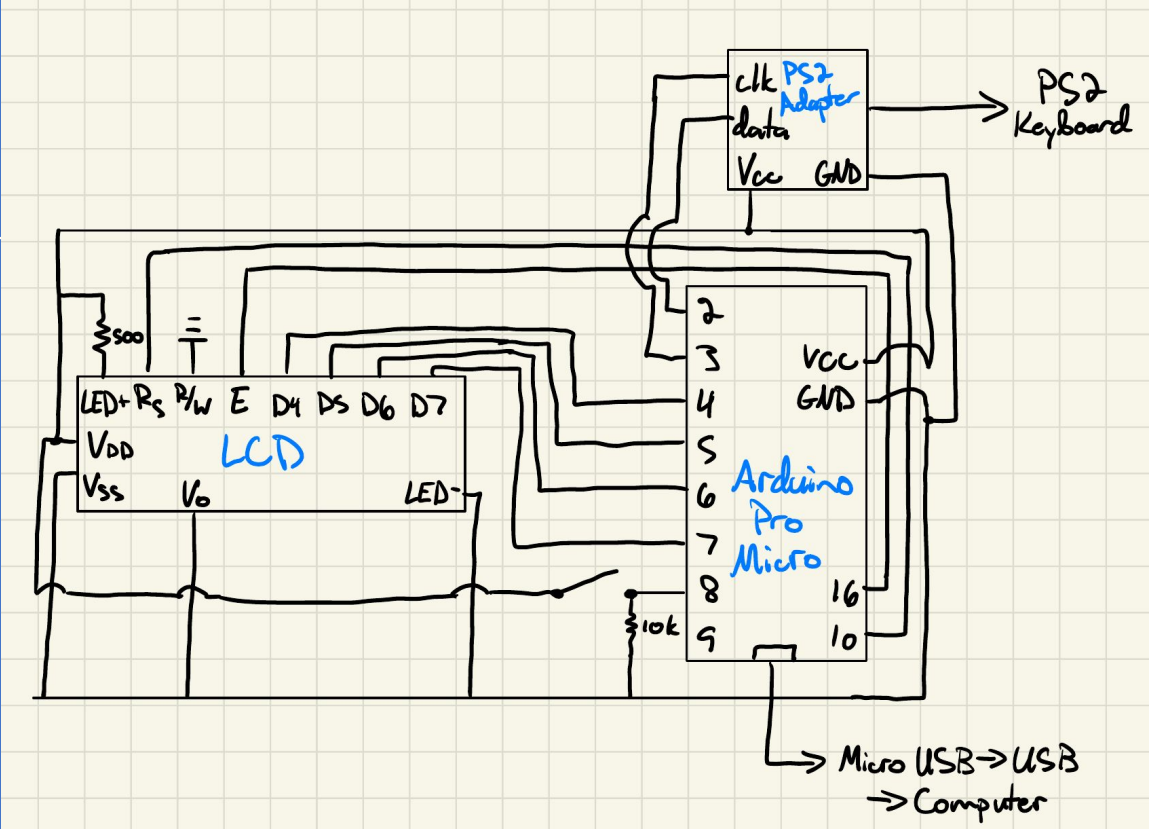


- Secure 15-character passwords
- Unique hashed password for each website
- Original password of any length

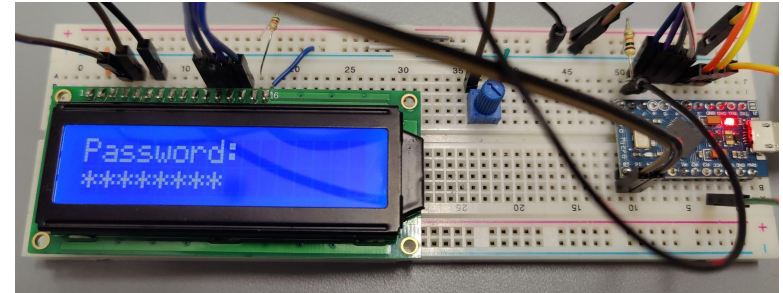
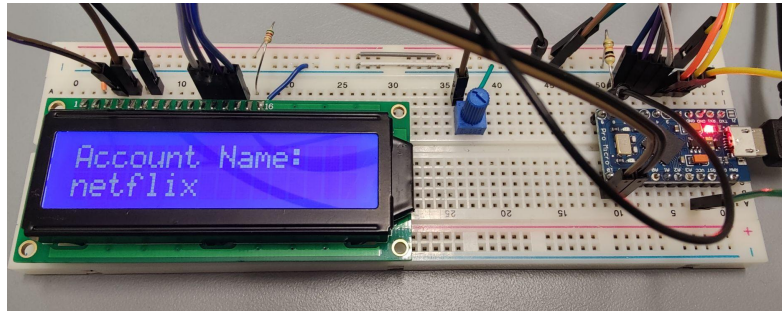
LCD Screen



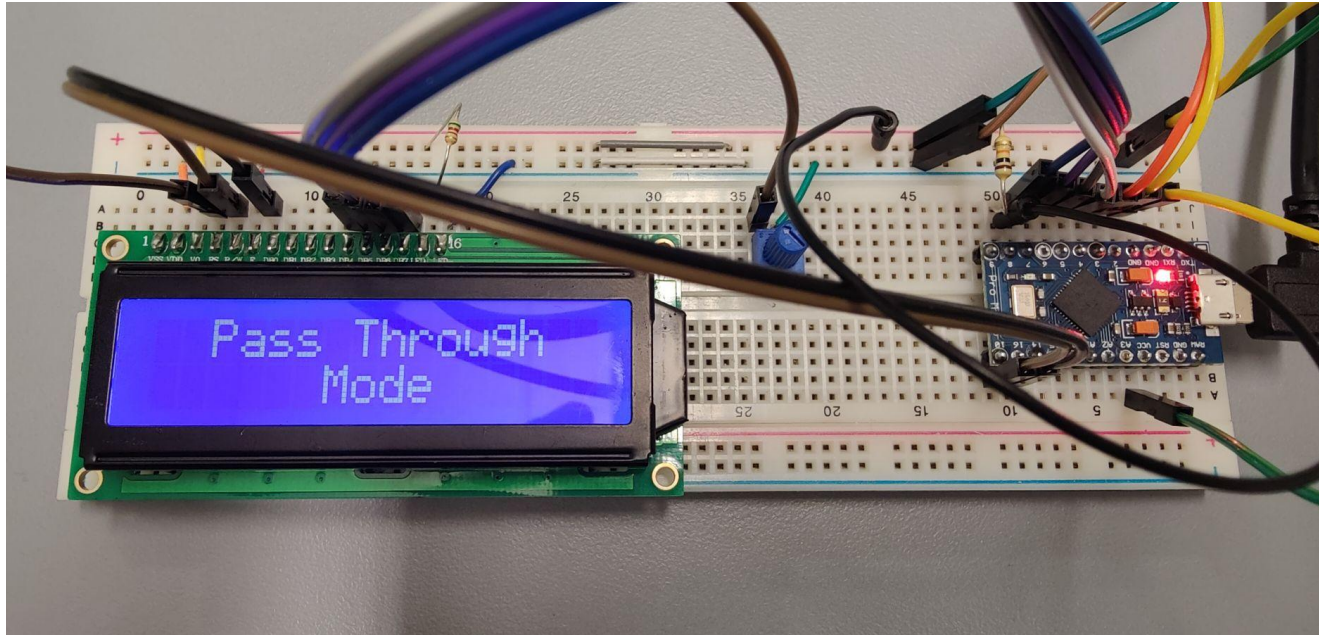
Hardware Diagram

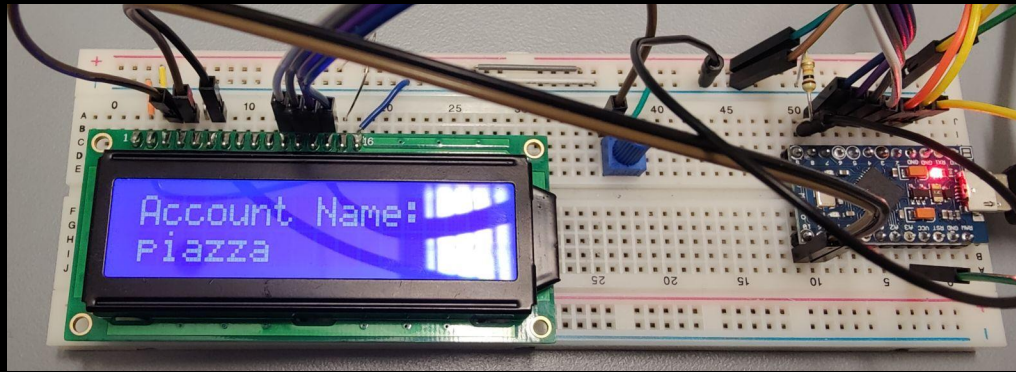


User Flow - Password Input Mode



User Flow - Pass Through Mode





Amazon + password: 6tb9DU9fYU2JZzt

Netflix + password: QgaryyMktcSXgXX

