Must

Be powered by a wall adaptor 12V

Have an LCD for user feedback

Must have a unique code to unlock

Use an NES controller for user input

* Use 8-2-3 decoder- This will allow us to use less GPIO pins to interface with MCU.

Be user upgradable.

- Route unused GPIOs to headers so user can add peripherals to board i.e. LEDs, buzzer, motion sensor etc.

Should

User programmable combination

May

Different ways to unlock

Back up battery