



Wheelock

Automated Bicycle
Rack Locking System

By: T075



Wheelock

Background

- The Government announced in 2020 that it aimed to triple the cycling path network from the current 440km to 1,320km by 2030



THE STRAITS TIMES

Cycling path network in Singapore to treble by 2030

THE STRAITS TIMES

More will commute by cycling, walking in 10 years: Study



WheeLock

Problem

- No secure and convenient solution for bicycle parking
- Inconvenience of having to invest in and carry a bicycle lock
- Bicycle theft is still common

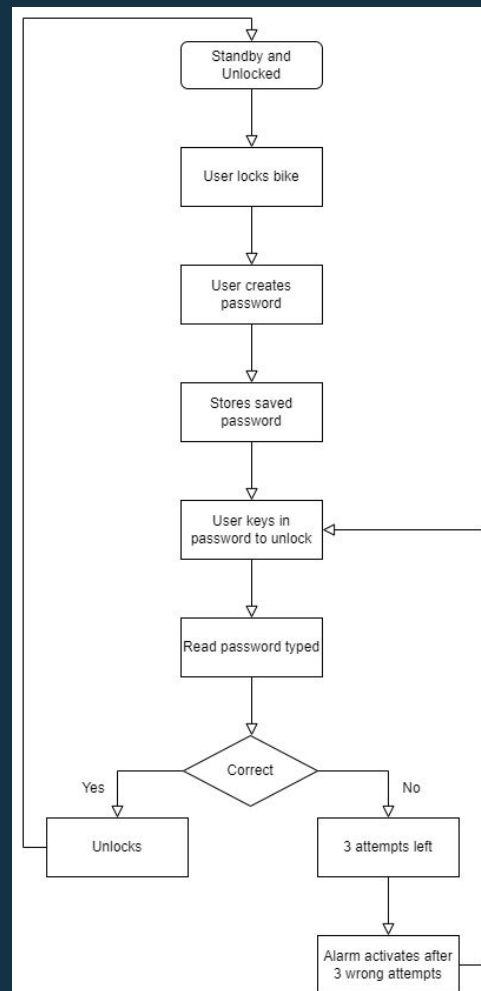
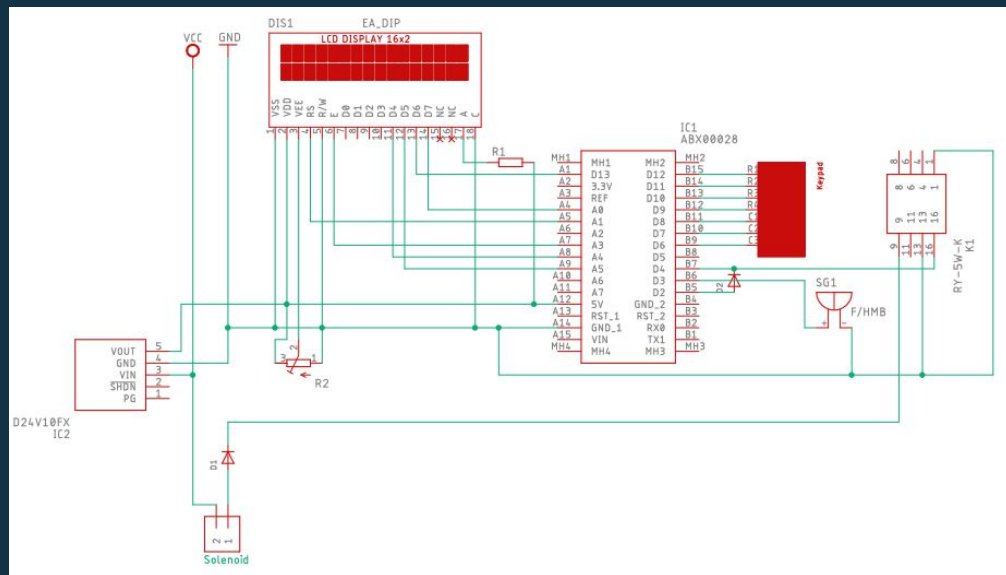


Solution: Wheelock

- An automated bicycle rack locking system
 - Adjustable modular attachment onto existing bicycle racks
 - Locking mechanism uses a temporary 4-digit PIN created by users
 - Alarm activates when the system detects any tampering with the lock

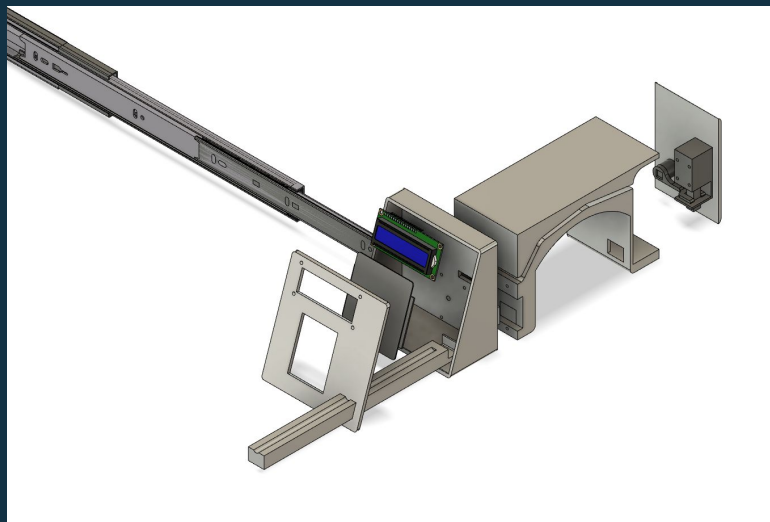


How it works



Wheelock

Prototype



Wheelock

Cost

Retail price \$1000



Wheelock

Competitor

- “I Lock It” claims to be first smart bicycle lock in the world
- Could be carried away easily



Key differentiators

- Convenience of not carrying a bike lock
- Suitable for all ages
 - Does not use smartphone or bluetooth connection
- Extension to existing bicycle parking infrastructure



Plans

- To form a partnership with
 - Land Transport Authority (LTA)
 - Housing Development Board (HDB)
 - Shopping mall operators such as CapitaLand and Lendlease



**LockNGo in just
15 seconds**



WheeLock

