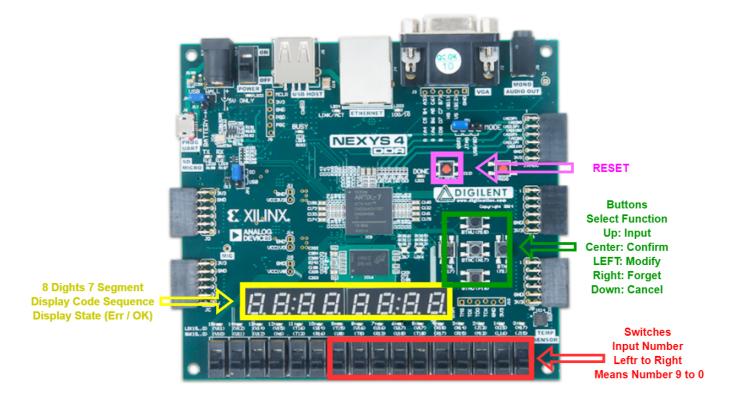
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University of Birmingham, 2020 Digit Design Assignment: An Combination Lock

Using VHDL language and implement on Nexys4 DDR, design by Yifan Du, Check it on Github

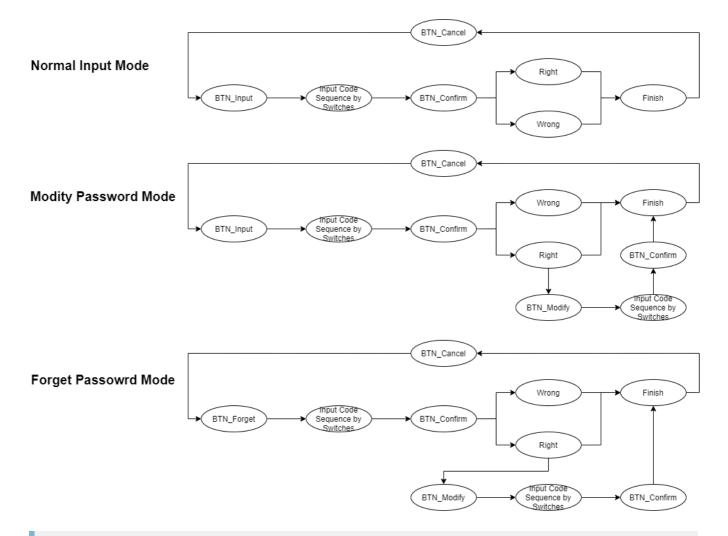
Hardware Specification



- RESET: Reset all value, code sequence and password
- Buttons: Use button to entry different function (mode).
 - o **UP**: Normal input mode
 - Left: Modify password mode, only working afer input right code sequence
 - **Center**: Confirm button, when user finfish input, push this button to confirm input code sequence.
 - Right: Forget password mode / Admain mode
 - **Down**: Cancel / exit button.
- 8 Dight 7 Segments: Initial state will display "_"
- **Switches**: Push up then push down same switch, its means input one number
 - o e.g: push up switch [4] then push down, its means input deciaml number 4

Button Function Specification

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Input whole code sequence then push confirm (center) button

e.g Input code sequence 0123, switch[0]-up-down -> switch[1]-up-down -> switch[2]-up-down-> switch[3]-up-down -> confirm