General Morphological Analysis

| **Two Factor Authentication** | **Microcontroller** | **User Interface** | **User Inputs** | **Software Upgrade** | **Physical Security** | **Power** |
| --- | --- | --- | --- | --- | --- | --- |
| RFID Card Insert (No Change) | Raspberry Pi Zero (No Change) | Revamp Lights and Sounds | Singular Button | No Change | None | 120V (No Change) |
| Phone Tap | ESP 32 | Add in LCD screen | Keypad | Dashboard | Security Screws | 240V |
| Student/Local ID | Pi Pico |  | Multiple Buttons | Web Server | Physical Lock | Both |
|  |  |  |  | Local Database |  |  |

3x3x2x3x4x3x4x3=7776 which is less than 10,000

Highly Likely

Maybe