

## HW 07: Scenario Testing

### Objectives:

The objectives of this assignment are for you to get some practice creating scenarios, soap operas, and negative test cases.

### Assignment:

You were recently hired by company to do system testing of one of their brand new products. The product is programmable door lock. The product can be used to secure any doors that it fits, but the company is specifically targeting this product to be used to secure classroom doors in schools.

The product's user guide can be found here, and this is the only information that you have to start to develop your tests.

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**Pledge:** "I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet, or any other source except where I have expressly cited the source."

### Solution:

#### 1. Create and describe three scenario tests

##### a. Set New User Code Test:

**Scenario:** Admin/Professor wants to give new user code to new Student who has enrolled to the class.

**Test Steps:**

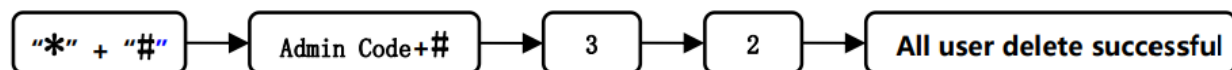


**Output:** Student should be able to use his/her code to open the door.

##### b. Delete All Users:

**Scenario:** Admin/Professor wants to remove all students user code from the class at the end of the semester.

**Test Steps:**

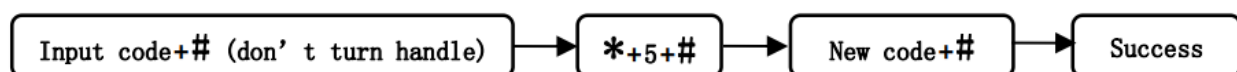


**Output:** System should be clear of all users and no existing user should be able to open door

##### c. User can update their user code:

**Scenario:** User/Student wants to change/update his or her user code

**Test Steps:**



## 2. Create and describe one soap opera scenario test

Let consider a scenario where Professor X is assigned a new Class A-01 which has a new Haifuan D6300 Series HFAD6300-FR model programmable door installed to secure classroom doors.

Professor X is assigned the admin code to access class and add/remove Students. Professor X now assigns all the students enrolled in the class, but during the 1<sup>st</sup> class of the semester Professor X wants to allow all students without passcode and after 1<sup>st</sup> class, Professor X wants all students to use their user code to enter.

Furthermore, Professor X asks students to configure their fingerprint, but 6 students want to opt for card instead and hence, Professor X configured their Card user.

In a week, 5 students dropped out of the class while 3 new students enrolled, so Professor X deletes these 5 users and adds 3 new students using their fingerprints.

2 new students face difficulty in remembering the user codes assign, so Professor asks them to change the User code.

In the middle of the semester, Professor X is removed as the teacher of Class A-01 the class is assigned to Professor Y. Professor Y is assigned new Admin Code.

Also, Professor Y wants remote control lock/unlock access, so Professor Y add remote control access to lock/unlock door.

After the end of the semester, Professor Y deletes all the users of the previous semester.

The scenario will test the following operations:

- Initial setup of Admin Code
- Set User Code
- Passage Mode Setting
- Set Card User
- Set Fingerprint
- Delete Single User
- User can Change their codes by their own
- Set Admin Code
- Set Remote Control
- Delete All users

## 3. Create and describe three negative tests

### a. User enters wrong operation command during operation execution:

**Scenario:** User tries to update/change user code but instead of entering new code, user clicks on '#', wherein in positive scenario, user would have entered new code and then pressed '#' to complete operation.

**Ideal Scenario Output:** If user inputs wrong command, an error alert needs to be sounded.

### b. User set fingerprint scenario:

**Scenario:** User tries to set fingerprint and instead of using single finger twice, user uses different fingers.

**Ideal Scenario:** User should use the same finger twice while configuring fingerprint.

### c. Setting User code/Password less than 6 digits or more than 10 digits:

**Scenario:** User tries to set user code less 6 digits or more than 10 digits, but system should sound error alarm.

**Ideal Scenario:** User is not allowed to set user code < 6 digits or > 10 digits.