SOFT410911: Software Quality Assurance 2022-Fall Homework-**3** Solutions

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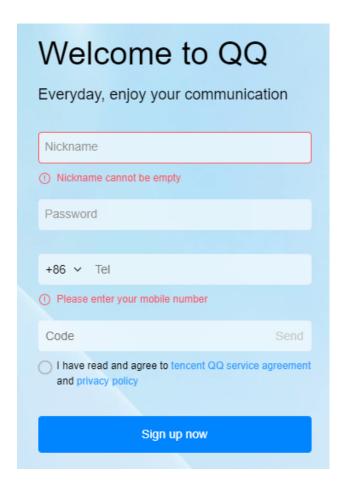
Honor Code: I promise that I finished the homework solutions on my own without copying other people's work.

Equivalence partitioning

1. Topic: from Idea to Reality

In HW-2, I chose creation account as topic of my test list and divided them into distinct kinds. In this homework, I will reuse this idea but in a more real circumstance —— creating **QQ** account. (https://zc.qq.com/chs/index.html)

2. Observation for Input Partition



There are several input fields:

- 1. **Nickname**. After several tests, it seems that there is no limitation for nickname except cannot be empty.
- 2. Password. 3 limitation of Password as below.



- 3. **Tel**. After pressing the send button of Code, it will examine whether the phone number is valid.
 - · Country of Tel.
- 4. Code. Input should be identified with the sent code.
 - Security Verify. Drag a icon to given place.



5. **Service Agreement**. Should be accepted.

3. Equivalence Partitioning Test List

	valid partition	invalid partition
Nickname	not empty	empty
Password Length	8-16	<8, >16
Password char	not contain space	contain space
Password Security	secure (as stipulated inside)	not secure enough
Tel	valid number after check	invalid number
Agreement	Accept	Not Accept
Code	same as a random number	others
Security Verify	close to certain space	far

4. Summary

After comparing Equivalence Partitioning Test List with my original test list, I found some advantages and disadvantages of Equivalence Partitioning Test.

- Advantages: Efficiently decrease test cases. In this instance, decrease 22 to 8.
- Disadvantages
 - Can't contain all possible input which may lead to a missing bug.
 - Don't test around bound.

Other things

LATEX code refer to these things and was complied on texlive2020 by xelatex.

- UCB-CS70's given homework template.
- A free website useful to edit LATEX table code.

The purpose of writing in English is to adapt to bilingual teaching and to improve my poor English writing skills in preparation for a possible future exchange program.

Thanks for your correcting and grading:).