SOFT410911: Software Quality Assurance 2022-Fall Homework-**2** Solutions

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

Test Ideas List

1. Topic: Password Security Certify

- When creating an account, many application will detect if the password is secure. For example, it has to contain digit, punctuation and letter both capital and small. Also, it will confine the password length in a certain scope and so on.

2. Test Ideas List

22 test ideas in total.

Test	Risks	Expected Results
LB of length	bound unclear	correct length
LB - 1	too short	report length error message
UB of length	bound unclear	correct length
UB + 1	too long	report length error message
none	nothing	report length error message
only digits	lack of elements	report missing element and unsafe error message
only small letters		
only capital letters		
only punctuation (space)		
permutation of above 5 elements many be $2^4 - 1 = 15$ kinds except correct		
correct length and safe enough		successful
contain username	unsafe	report unsafe message
special keystroke like F1 - F12 / ins / del / tab / esc...	unexpected keystroke	report keystroke error message

Test Type	Amount
special input test	2
length test	4
password security test	$2^4 - 1 = 15$
successful test	1
all	22

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 formula 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 :).