

Task 6

Create a Strong Password and Evaluate Its Strength.

1. In this task I use the passwordmeter.com website to find the password strength .

2. Passwordmeter website is the users friend to test the how strong the password and it was also show how many character use in the password and is also show how many uppercase ,lowercase and numbers use in the password.

Password:	<input type="password" value="....."/>	<ul style="list-style-type: none"> • Minimum 8 characters in length • Contains 3/4 of the following items: <ul style="list-style-type: none"> - Uppercase Letters - Lowercase Letters - Numbers - Symbols
Hide:	<input checked="" type="checkbox"/>	
Score:	<div>59%</div>	
Complexity:	Good	

Additions		Type	Rate	Count	Bonus
★	Number of Characters	Flat	$+(n*4)$	14	+ 56
✗	Uppercase Letters	Cond/Incr	$+(len-n)*2)$	0	0
★	Lowercase Letters	Cond/Incr	$+(len-n)*2)$	9	+ 10
★	Numbers	Cond	$+(n*4)$	4	+ 16
✗	Symbols	Flat	$+(n*6)$	0	0
★	Middle Numbers or Symbols	Flat	$+(n*2)$	3	+ 6
✗	Requirements	Flat	$+(n*2)$	3	0
Deductions					
✓	Letters Only	Flat	$-n$	0	0
✓	Numbers Only	Flat	$-n$	0	0
!	Repeat Characters (Case Insensitive)	Comp	-	4	- 1
✓	Consecutive Uppercase Letters	Flat	$-(n*2)$	0	0
!	Consecutive Lowercase Letters	Flat	$-(n*2)$	8	- 16
!	Consecutive Numbers	Flat	$-(n*2)$	3	- 6
✓	Sequential Letters (3+)	Flat	$-(n*3)$	0	0
!	Sequential Numbers (3+)	Flat	$-(n*3)$	2	- 6

*Password Strength Analysis (Score: 59%, Complexity: Good)

*In this password only use the numbers,lowercase and middle numbers.

* In this password they don't use the uppers case, symbols.

Test Your Password		Minimum Requirements
Password:	<input type="text" value="pasSw0Rd!234"/>	<ul style="list-style-type: none"> Minimum 8 characters in length Contains 3/4 of the following items: <ul style="list-style-type: none"> Uppercase Letters Lowercase Letters Numbers Symbols
Hide:	<input type="checkbox"/>	
Score:	<div>100%</div>	
Complexity:	Very Strong	

Additions		Type	Rate	Count	Bonus
	Number of Characters	Flat	$+(n*4)$	<input type="text" value="12"/>	+ 48
	Uppercase Letters	Cond/Incr	$+(len-n)*2)$	<input type="text" value="2"/>	+ 20
	Lowercase Letters	Cond/Incr	$+(len-n)*2)$	<input type="text" value="5"/>	+ 14
	Numbers	Cond	$+(n*4)$	<input type="text" value="4"/>	+ 16
	Symbols	Flat	$+(n*6)$	<input type="text" value="1"/>	+ 6
	Middle Numbers or Symbols	Flat	$+(n*2)$	<input type="text" value="4"/>	+ 8
	Requirements	Flat	$+(n*2)$	<input type="text" value="5"/>	+ 10

*password is very strong because use the uppercase, lowercase , numbers, symbols and number of characters.

* It was the prefect password.

Test Your Password		Minimum Requirements
Password:	<input type="text" value="Naruto12!"/>	<ul style="list-style-type: none"> Minimum 8 characters in length Contains 3/4 of the following items: <ul style="list-style-type: none"> Uppercase Letters Lowercase Letters Numbers Symbols
Hide:	<input type="checkbox"/>	
Score:	<div>78%</div>	
Complexity:	Strong	

Additions	Type	Rate	Count	Bonus
Number of Characters	Flat	$+(n*4)$	<input type="text" value="9"/>	+ 36
Uppercase Letters	Cond/Incr	$+(len-n)*2$	<input type="text" value="1"/>	+ 16
Lowercase Letters	Cond/Incr	$+(len-n)*2$	<input type="text" value="5"/>	+ 8
Numbers	Cond	$+(n*4)$	<input type="text" value="2"/>	+ 8
Symbols	Flat	$+(n*6)$	<input type="text" value="1"/>	+ 6
Middle Numbers or Symbols	Flat	$+(n*2)$	<input type="text" value="2"/>	+ 4
Requirements	Flat	$+(n*2)$	<input type="text" value="5"/>	+ 10

- IT was the weak password because the it only use the 8 characters. The minimum password required 12 characters.

Test Your Password		Minimum Requirements			
Password:	w@1s3#4%^&*9)p09hf09	<ul style="list-style-type: none"> Minimum 8 characters in length Contains 3/4 of the following items: <ul style="list-style-type: none"> Uppercase Letters Lowercase Letters Numbers Symbols 			
Hide:	<input type="checkbox"/>				
Score:	100%				
Complexity:	Very Strong				

Additions		Type	Rate	Count	Bonus
⊛	Number of Characters	Flat	$+(n*4)$	20	+ 80
⊗	Uppercase Letters	Cond/Incr	$+\left((len-n)*2\right)$	0	0
⊛	Lowercase Letters	Cond/Incr	$+\left((len-n)*2\right)$	5	+ 30
⊛	Numbers	Cond	$+(n*4)$	8	+ 32
⊛	Symbols	Flat	$+(n*6)$	7	+ 42
⊛	Middle Numbers or Symbols	Flat	$+(n*2)$	14	+ 28
✓	Requirements	Flat	$+(n*2)$	4	+ 8

Deductions

- This password is very strong but it doesn't use the Uppercase characters.

I research some common password attack types:-

1. Brute Force: Tries all combinations
2. Dictionary Attack: Uses common words/phrases
3. Credential Stuffing: Reuses known leaked passwords.

Conclusion: - In this task we test the password strength use Passwordmeter website.