

.NET DELIVERABLE 1

Disclaimer: A large part of being a developer is researching and understanding new mechanics and concepts of coding. Every developer, even a seasoned veteran, needs to look up and research coding concepts. While Unit 1 has prepared you with the basic mechanics for this exercise, you will need to research C# various topics. In particular, this exercise will make heavy use of boolean expressions and

Task: Validation is a super common task for back-end developers. Write a console application that asks the user for a password and checks if it is valid

What will the application do?

- Via the console, ask the user to create a password with the following requirements. The password must contain:
 - At least one lowercase letter
 - At least one uppercase letter
 - At least minimum 7 characters
 - At least maximum 12 characters
 - An exclamation point: !
- If the user meets all the requirements, print the string **"Password valid and accepted"** to the console
- If the password fails any of the requirements, print the string **"Error "**.

Point Breakdown:

Each of these requirements are worth 1 or 2 points with a total of 10. You need to:

- 1) Print a message asking the user to input a password via the console **(1 point)**
- 2) Receive the input via the console **(1 point)**
- 3) Check if there is at least one lowercase letter **(1 point)**
- 4) Check if there is at least one uppercase letter (**Hint:** Google *C# check if string contains lowercase/uppercase*) **(1 point)**
- 5) Check if there are at least **7** characters **(1 point)**
- 6) Check if there are no more than **12** characters **(1 point)**
- 7) Check if there is a **!** **(1 point)**
- 8) If the password is valid, print **"Password valid and accepted"** **(2 points)**
- 9) If the password isn't valid, print **"Error"** **(1 point)**

Grading Scale:

8 or above Passing
Below 8: Not Passing