

Question: 6. User Authentication

You are developing a C# console application for **User Registration and Password Validation**.

Class: User

In the class **User**, implement the following **public properties**:

Class	Property Name	Data Type
User	Name	string
User	Password	string
User	ConfirmationPassword	string

Class: Program

Implement the following method in the `Program` class:

Method: ValidatePassword

```
public User ValidatePassword(string name, string password, string confirmationPassword)
```

Description:

This method should:

1. Accept the user's name, password, and confirmation password.
2. Create a `User` object using these details.
3. If **password and confirmationPassword do not match (case-sensitive)**, then:
 - o Throw a **user-defined exception** called `PasswordMismatchException` with the message:

"Password entered does not match"

Note:

- If the passwords match exactly (case-sensitive), return the `User` object.
 - If they do not match, throw `PasswordMismatchException`.
 - The **Exception object itself should display this message**.
 - To do this, create a class `PasswordMismatchException` that inherits from the built-in `Exception` class.
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In the Main Method:

1. Get user input for:
 - o Name
 - o Password
 - o Confirmation Password
2. Call `ValidatePassword()` inside a `try-catch` block.
3. If a valid `User` object is returned, display:

Registered Successfully

4. If an exception occurs, catch it and display the exception message.