**Template driven form pattern validator**

**1. Only Letters (A-Z, a-z)**

<input name="onlyLetters" ngModel pattern="^[a-zA-Z]+$" />

✔ Accepts: John  
❌ Rejects: John123, John!

|  |  |
| --- | --- |
| ^ | Anchors the pattern to the **start** of the string |

|  |  |
| --- | --- |
| [a-zA-Z] | Matches **one character** in the range a-z or A-Z (i.e. letters only) |

|  |  |
| --- | --- |
| + | Means **"one or more"** of the previous character set ([a-zA-Z]) |

|  |  |
| --- | --- |
| $ | Anchors the pattern to the **end** of the string |

**2. Only Numbers**

<input name="onlyNumbers" ngModel pattern="^[0-9]+$" />

✔ Accepts: 12345  
❌ Rejects: 123abc, 12.34

**3. Alphanumeric (Letters + Numbers)**

<input name="alphanumeric" ngModel pattern="^[a-zA-Z0-9]+$" />

✔ Accepts: abc123  
❌ Rejects: abc@123

**4. Alphanumeric with Spaces**

<input name="alphanumericWithSpaces" ngModel pattern="^[a-zA-Z0-9 ]+$" />

✔ Accepts: John Doe 123  
❌ Rejects: John@123

**5. Email Format (Simple)**

<input name="email" ngModel pattern="^[a-zA-Z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,4}$" />

✔ Accepts: test@example.com  
❌ Rejects: test@.com

For actual email validation, prefer using type="email" or email validator.

**6. Phone Number (10 digits)**

<input name="phone" ngModel pattern="^[0-9]{10}$" />

✔ Accepts: 9876543210  
❌ Rejects: 987-654-3210, 123456

**7. Postal Code (India – 6 digits)**

<input name="pincode" ngModel pattern="^[1-9][0-9]{5}$" />

✔ Accepts: 560001  
❌ Rejects: 012345, 5600

**8. Password (at least 1 uppercase, lowercase, number, special char, min 8 chars)**

<input

name="password"

ngModel

pattern= "^(?=.\*[a-z])

(?=.\*[A-Z])

(?=.\*\d) or (?=.\*[0-9])

(?=.\*[\W\_]).{8,}$"

/>

✔ Accepts: Password1!  
❌ Rejects: password, Password, Pass1

**9. Decimal Number (e.g., 12.34)**

<input name="decimal" ngModel pattern="^[0-9]+(\.[0-9]{1,2})?$" />

✔ Accepts: 12, 12.34  
❌ Rejects: 12.345

**10. Custom Format: "ABC-1234" (like license plate)**

<input name="customFormat" ngModel pattern="^[A-Z]{3}-[0-9]{4}$" />

✔ Accepts: ABC-1234  
❌ Rejects: abc1234, AB-1234