

Black Box Testing
GROUP 34



Pharmacist Profile

Constraints :

1. **Certification:** Must not be empty; maximum 50 characters; only alphabetic characters allowed.
2. **Pharmacy Name:** Must not be empty; maximum 50 characters; alphanumeric characters and spaces allowed.
3. **Years of Experience:** Must not be empty; must be a valid integer; value must be greater than or equal to 0; maximum 50 years.
4. **Contact Number:** Must not be empty; must be numeric and exactly 10 digits.
5. **Street:** Must not be empty; maximum 100 characters; alphanumeric characters, spaces, and basic punctuation allowed.
6. **City:** Must not be empty; maximum 50 characters; only alphabetic characters allowed.
7. **State:** Must not be empty; maximum 50 characters; only alphabetic characters allowed.
8. **Postal Code:** Must not be empty; must be numeric and exactly 6 digits.
9. **Country:** Must not be empty; maximum 50 characters; only alphabetic characters allowed.

Equivalence Classes

1.Certification

- **Valid (E1):** Non-empty, alphabetic, maximum 50 characters.
Example: "Certified Pharmacist"
- **Invalid (E2):** Empty value.
Example: ""
- **Invalid (E3):** Exceeds 50 characters.
Example: "Certified Pharmacist with additional credentials beyond the limit."
- **Invalid (E4):** Contains numeric or special characters.
Example: "Certified123"

2.Pharmacy Name

- **Valid (E5):** Non-empty, alphanumeric, maximum 50 characters.
Example: "HealthCare Pharmacy"
- **Invalid (E6):** Empty value.
Example: ""
- **Invalid (E7):** Exceeds 50 characters.
Example: "HealthCare Pharmacy with a long name that exceeds fifty characters."
- **Invalid (E8):** Contains special characters.
Example: "HealthCare Pharmacy@123"

3.Years of Experience

- **Valid (E9):** Integer between 0 and 50 (inclusive).
Examples: 0, 10, 50
- **Invalid (E10):** Negative value.
Example: -1
- **Invalid (E11):** Non-integer value.
Example: "5.5"
- **Invalid (E12):** Exceeds maximum limit.
Example: 51

4.Contact Number

- **Valid (E13):** Exactly 10 numeric digits.
Example: "9876543210"
- **Invalid (E14):** Less than 10 digits.
Example: "123456789"

- **Invalid (E15):** More than 10 digits.
Example: "12345678901"
- **Invalid (E16):** Non-numeric characters.
Example: "98765abcd1"

5.Street

- **Valid (E17):** Non-empty, maximum 100 characters; alphanumeric, spaces, and basic punctuation allowed.
Example: "123 Main St."
- **Invalid (E18):** Empty value.
Example: ""
- **Invalid (E19):** Exceeds 100 characters.
Example: "A".repeat(101) (this would generate a string of 101 characters.)
- **Invalid (E20):** Contains special characters outside allowed punctuation.
Example: "123 Main St. @"

6.City

- **Valid (E21):** Non-empty, alphabetic characters, maximum 50 characters.
Example: "Delhi"
- **Invalid (E22):** Empty value.
Example: ""
- **Invalid (E23):** Contains numeric or special characters.
Example: "D3lhi@"
- **Invalid (E24):** Exceeds 50 characters.
Example: "A long city name that exceeds the fifty-character limit for testing."

7.State

- **Valid (E25):** Non-empty, alphabetic characters, maximum 50 characters.
Example: "California"
- **Invalid (E26):** Empty value.
Example: ""
- **Invalid (E27):** Contains numeric or special characters.
Example: "Calif0rnia!"
- **Invalid (E28):** Exceeds 50 characters.
Example: "A long state name that exceeds the fifty-character limit for Testing purposes."

8. Postal Code

- **Valid (E29):** Exactly 6 numeric digits.
Example: "110001"
- **Invalid (E30):** Less than 6 digits.
Example: "12345"
- **Invalid (E31):** More than 6 digits.
Example: "1234567"
- **Invalid (E32):** Non-numeric characters.
Example: "11A001"

9. Country

- **Valid (E33):** Non-empty, alphabetic characters, maximum 50 characters.
Example: "India"
- **Invalid (E34):** Empty value.
Example: ""
- **Invalid (E35):** Contains numeric or special characters.
Example: "Ind1a@"
- **Invalid (E36):** Exceeds 50 characters.
Example: "A very long country name that exceeds the fifty-character limit for character limit."

Test Cases (Boundary Value Analysis) :

Test Case 1

- **Input:**
Certification: "Certified Pharmacist",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 0,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E1, E5, E9, E13, E17, E21, E25, E29, E33
- **Result:** Successful

Test Case 2

- **Input:**
Certification: "Certified Pharmacist",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 50,
Contact Number: "9876543210",
Street: "456 Elm St.",
City: "Mumbai",
State: "Maharashtra",
Postal Code: "400001",
Country: "India"
- **Equivalence Classes Covered:** E1, E5, E9, E13, E17, E21, E25, E29, E33
- **Result:** Successful

Test Case 3

- **Input:**
Certification: "Certified Pharmacist",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 10,
Contact Number: "8887776665",
Street: "23 Park Avenue",
City: "Chennai",

State: "Tamil Nadu",
Postal Code: "600001",
Country: "India"

- **Equivalence Classes Covered:** E1, E5, E9, E13, E17, E21, E25, E29, E33
- **Result:** Successful

Test Case 4

- **Input:**
Certification: "Certified Pharmacist",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 25,
Contact Number: "9998887777",
Street: "789 Maple St.",
City: "Bangalore",
State: "Karnataka",
Postal Code: "560001",
Country: "India"
- **Equivalence Classes Covered:** E1, E5, E9, E13, E17, E21, E25, E29, E33
- **Result:** Successful

Test Case 5

- **Input:**
Certification: "Certified Pharmacist",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 15,
Contact Number: "7776665555",
Street: "101 High St.",
City: "Hyderabad",
State: "Telangana",
Postal Code: "500001",
Country: "India"
- **Equivalence Classes Covered:** E1, E5, E9, E13, E17, E21, E25, E29, E33
- **Result:** Successful

Test Case 6

- **Input:**
Certification: "",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 0,
Contact Number: "9876543210",

Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"

- **Equivalence Classes Covered:** E2
- **Result:** Error

Test Case 7

- **Input:**
Certification: "Certified Pharmacist with additional credentials beyond the limit",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 0,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E3
- **Result:** Error

Test Case 8

- **Input:**
Certification: "Certified123",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 0,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E4
- **Result:** Error

Test Case 9

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "",
Years of Experience: 0,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E6
- **Result:** Error

Test Case 10

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy with a long name that exceeds fifty characters",
Years of Experience: 0,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E7
- **Result:** Error

Test Case 11

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy@123",
Years of Experience: 0,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",

State: "Gujarat",
Postal Code: "110001",
Country: "India"

- **Equivalence Classes Covered:** E8
- **Result:** Error

Test Case 12

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: -1,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E10
- **Result:** Error

Test Case 13

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5.5,
Contact Number: "9876543210",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E11
- **Result:** Error

Test Case 14

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 51,
Contact Number: "9876543210",

Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"

- **Equivalence Classes Covered:** E12
- **Result:** Error

Test Case 15

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "123456789",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E14
- **Result:** Error

Test Case 16

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "12345678901",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E15
- **Result:** Error

Test Case 17

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",

Years of Experience: 5,
Contact Number: "98765abcd1",
Street: "123 Main St.",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"

- **Equivalence Classes Covered:** E16
- **Result:** Error

Test Case 18

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "",
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E18
- **Result:** Error

Test Case 19

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "A".repeat(101) (this would generate a string of 101 characters),
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E19
- **Result:** Error

Test Case 20

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St. @"
City: "Dehgam",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E20
- **Result:** Error

Test Case 21

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E22
- **Result:** Error

Test Case 22

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "D3lhi@",
State: "Gujarat",

Postal Code: "110001",

Country: "India"

- **Equivalence Classes Covered:** E23
- **Result:** Error

Test Case 23

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "A long city name that exceeds the fifty-character limit for testing",
State: "Gujarat",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E24
- **Result:** Error

Test Case 24

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Delhi",
State: "",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E26
- **Result:** Error

Test Case 25

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,

Contact Number: "9876543210",
Street: "123 Main St."
City: "Delhi",
State: "Calif0rnia!",
Postal Code: "110001",
Country: "India"

- **Equivalence Classes Covered:** E27
- **Result:** Error

Test Case 26

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Delhi",
State: "A long state name that exceeds the fifty-character limit for testing purposes",
Postal Code: "110001",
Country: "India"
- **Equivalence Classes Covered:** E28
- **Result:** Error

Test Case 27

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Dehgam",
State: "Gujarat",
Postal Code: "12345",
Country: "India"
- **Equivalence Classes Covered:** E30
- **Result:** Error

Test Case 28

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Dehgam",
State: "Gujarat",
Postal Code: "1234567",
Country: "India"
- **Equivalence Classes Covered: E31**
- **Result:** Error

Test Case 29

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Dehgam",
State: "Gujarat",
Postal Code: "11A001",
Country: "India"
- **Equivalence Classes Covered: E32**
- **Result:** Error

Test Case 30

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Dehgam",
State: "Gujarat",

Postal Code: "110011",

Country: ""

- **Equivalence Classes Covered:** E34
- **Result:** Error

Test Case 31

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Dehgam",
State: "Gujarat",
Postal Code: "110011",
Country: "Ind1a@"
- **Equivalence Classes Covered:** E35
- **Result:** Error

Test Case 32

- **Input:**
Certification: "Certified Healthcare",
Pharmacy Name: "HealthCare Pharmacy",
Years of Experience: 5,
Contact Number: "9876543210",
Street: "123 Main St."
City: "Dehgam",
State: "Gujarat",
Postal Code: "110011",
Country: "A very long country name that exceeds the fifty-character limit for testing purposes"
- **Equivalence Classes Covered:** E36
- **Result:** Error