

Black Box Testing
GROUP 34



Doctor Profile Page

Constraints

1. **Speciality:** Must not be empty; only alphabetic characters allowed.
2. **Experience (years):** Must be a positive integer between 0 and 50.
3. **Contact Number:** Must be numeric and exactly 10 digits.
4. **Consultation Fee:** Must be a positive number (integer or decimal).
5. **Biography:** Optional, but if present, must not exceed 500 characters.

Clinic Address:

6. **Street:** Must not be empty; max 100 characters.
7. **City:** Must not be empty; only alphabetic characters allowed.
8. **State:** Must not be empty; only alphabetic characters allowed.
9. **Postal Code:** Must be numeric and exactly 6 digits.
10. **Country:** Must not be empty.
11. **Profile Picture:** Must choose file and Must be a valid image format (.jpg, .png, etc.) and under 5 MB.

Equivalence Classes :

1 Speciality

- Valid (E1): Non-empty, alphabetic, valid medical specialty.
Example: "Cardiologist".
- Invalid (E2): Empty value.
Example: "".
- Invalid (E3): Contains numeric or special characters.
Example: "Cardio123".

2 Experience (Years)

- Valid (E4): Positive integer between 0 and 50.
Examples: 0, 10, 50.
- Invalid (E5): Negative value.
Example: -1.
- Invalid (E6): Non-integer value.
Example: "10.5".
- Invalid (E7): Exceeds maximum limit.
Example: 51.

3 Contact Number

- Valid (E8): Exactly 10 numeric digits.
Example: "9876543210".
- Invalid (E9): Non-numeric characters.
Example: "98765abcd1".
- Invalid (E10): Less than 10 digits.
Example: "12345".
- Invalid (E11): More than 10 digits.
Example: "123456789012".

4 Consultation Fee

- Valid (E12): Positive number (integer or decimal).
Examples: 500, 499.99.
- Invalid (E13): Negative value.
Example: -500.

- Invalid (E14): Non-numeric value.
Example: "five hundred".

5 Biography

- Valid (E15): Up to 500 characters.
Example: "Experienced doctor in cardiology".
- Invalid (E16): Exceeds 500 characters.
Example: "A".repeat(501).

Clinic Address Fields

6 Street:

- Valid (E17): Up to 100 characters and Non-empty.
Example: "123 Main Street".
- Invalid (E18) : Empty Value
- Invalid (E19): Exceeds 100 characters.
Example: "A".repeat(101).

7 City:

- Valid (E20): Non-empty, alphabetic characters.
Example: "Delhi".
- Invalid (E21): Empty value.
Example: "".
- Invalid (E22): Contains numeric or special characters.
Example: "D3lhi@".

8 State:

- Valid (E23): Non-empty, alphabetic characters.
Example: "Delhi".
- Invalid (E24): Empty value.
Example: "".
- Invalid (E25): Contains numeric or special characters.
Example: "D3lhi@".

9 Postal Code:

- Valid (E26): Exactly 6 numeric digits.
Example: "110001".
- Invalid (E27): Non-numeric characters.
Example: "11A001".
- Invalid (E28): Less than 6 digits.
Example: "12345".

- Invalid (E29): More than 6 digits.
Example: "1234567".

10 Country:

- Valid (E30): Non-empty, from a predefined list.
Example: "India".
- Invalid (E31): Empty value.
Example: "".

11 Profile Picture

- Valid (E32): File with valid format (.jpg, .png) and size ≤ 5 MB.
Example: valid_image.jpg (size 4.5 MB).
- Invalid (E33): No file is chosen.
- Invalid (E34): Invalid format.
Example: invalid_file.exe.
- Invalid (E35): Exceeds size limit.
Example: valid_image.jpg (size 6 MB).

Test Cases (Boundary Value analysis) :

Test Case 1

- **Input:**
Specialty: "Cardiologist", Experience: 0, Contact Number: "9876543210",
Consultation Fee: 500, Biography: "Experienced cardiologist.",
Street: "12 Residency Road", City: "Delhi", State: "Delhi", Postal Code: "110001",
Country: "India", Profile Picture: "valid_image.jpg (4 MB)"
- **Equivalence Classes Covered:** E1, E4, E8, E12, E15, E17, E20, E23, E26, E30, E32
- **Result:** Successful

Test Case 2

- **Input:**
Specialty: "Neurologist", Experience: 50, Contact Number: "9998887776",
Consultation Fee: 1000, Biography: "Expert neurologist with vast experience.",
Street: "34 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code: "400001",
Country: "India", Profile Picture: "valid_image.png (5 MB)"
- **Equivalence Classes Covered:** E1, E4, E8, E12, E15, E17, E20, E23, E26, E30, E32
- **Result:** Successful

Test Case 3

- **Input:**
Specialty: "Dermatologist", Experience: 25, Contact Number: "8887776665",
Consultation Fee: 0, Biography: "Skin specialist with 25 years of experience.",
Street: "23 Park Avenue", City: "Chennai", State: "Tamil Nadu", Postal Code: "600001",
Country: "India", Profile Picture: "valid_image.jpg (3.8 MB)"
- **Equivalence Classes Covered:** E1, E4, E8, E12, E15, E17, E20, E23, E26, E30, E32
- **Result:** Successful

Test Case 4

- **Input:**
Specialty: "Pediatrician", Experience: 1, Contact Number: "9876541200",
Consultation Fee: 499.99, Biography: "Specialist in child healthcare.",
Street: "56 Residency Road", City: "Bangalore", State: "Karnataka", Postal Code: "560001",
Country: "India", Profile Picture: "valid_image.png (2.5 MB)"
- **Equivalence Classes Covered:** E1, E4, E8, E12, E15, E17, E20, E23, E26, E30, E32

- **Result:** Successful

Test Case 5

- **Input:**
Specialty: "ENT Specialist", Experience: 45, Contact Number: "9876545678",
Consultation Fee: 100.01, Biography: "Specialist in ear, nose, and throat.",
Street: "34 Residency Road", City: "Delhi", State: "Delhi", Postal Code: "110002",
Country: "India", Profile Picture: "valid_image.jpg (1.8 MB)"
- **Equivalence Classes Covered:** E1, E4, E8, E12, E15, E17, E20, E23, E26, E30, E32
- **Result:** Successful

Test Case 6

- **Input:**
Specialty: "", Experience: 10, Contact Number: "9876543210", Consultation Fee:
500, Biography: "Specialist in cardiology.",
Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code:
"400001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E2
- **Result:** Error

Test Case 7

- **Input:**
Specialty: "Cardio123", Experience: 10, Contact Number: "9876543210",
Consultation Fee: 500, Biography: "Specialist in cardiology.",
Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code:
"400001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E3
- **Result:** Error

Test Case 8

- **Input:**
Specialty: "Cardiologist", Experience: -1, Contact Number: "9876543210",
Consultation Fee: 500, Biography: "Specialist in cardiology.",
Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code:
"400001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E5
- **Result:** Error

Test Case 9

- **Input:**
Specialty: "Cardiologist", Experience: 10.5, Contact Number: "9876543210", Consultation Fee: 500, Biography: "Specialist in cardiology.", Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code: "400001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E6
- **Result:** Error

Test Case 10

- **Input:**
Specialty: "Cardiologist", Experience: 51, Contact Number: "9876543210", Consultation Fee: 500, Biography: "Specialist in cardiology.", Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code: "400001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E7
- **Result:** Error

Test Case 11

- **Input:**
Specialty: "Cardiologist", Experience: 10, Contact Number: "98765abcd1", Consultation Fee: 500, Biography: "Specialist in cardiology.", Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code: "400001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E9
- **Result:** Error

Test Case 12

- **Input:**
Specialty: "Cardiologist", Experience: 10, Contact Number: "12345", Consultation Fee: 500, Biography: "Specialist in cardiology.", Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code: "400001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E10
- **Result:** Error

Test Case 13

- **Input:**
Specialty: "Dermatologist", Experience: 15, Contact Number: "987654321012", Consultation Fee: 500, Biography: "Expert in skin care.",

Street: "45 Residency Road", City: "Chennai", State: "Tamil Nadu", Postal Code: "600002", Country: "India", Profile Picture: "valid_image.jpg"

- **Equivalence Classes Covered:** E11
- **Result:** Error

Test Case 14

- **Input:**
Specialty: "Neurologist", Experience: 8, Contact Number: "91234", Consultation Fee: 300, Biography: "Specialist in neurology.",
Street: "56 Green Park", City: "Delhi", State: "Delhi", Postal Code: "110001",
Country: "India", Profile Picture: "valid_image.png"
- **Equivalence Classes Covered:** E10
- **Result:** Error

Test Case 15

- **Input:**
Specialty: "Pediatrician", Experience: 5, Contact Number: "9876543210",
Consultation Fee: -1000, Biography: "Child specialist.",
Street: "90 Broadway", City: "Kolkata", State: "West Bengal", Postal Code: "700001",
Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E13
- **Result:** Error

Test Case 16

- **Input:**
Specialty: "Orthopedic", Experience: 20, Contact Number: "9812345678",
Consultation Fee: "five hundred", Biography: "Orthopedic surgeon for 20 years.",
Street: "78 Park Avenue", City: "Bangalore", State: "Karnataka", Postal Code: "560001",
Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E14
- **Result:** Error

Test Case 17

- **Input:**
Specialty: "Cardiologist", Experience: 10, Contact Number: "9813456790",
Consultation Fee: 300, Biography: "A".repeat(501),
Street: "123 MG Road", City: "Mumbai", State: "Maharashtra", Postal Code: "400001",
Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E16
- **Result:** Error

Test Case 18

- **Input:**
Specialty: "Dentist", Experience: 12, Contact Number: "9723456789",
Consultation Fee: 1500, Biography: "Specialist in oral health.",
Street: "", City: "Ahmedabad", State: "Gujarat", Postal Code: "380001", Country:
"India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E18
- **Result:** Error

Test Case 19

- **Input:**
Specialty: "Gynecologist", Experience: 7, Contact Number: "9912345678",
Consultation Fee: 800, Biography: "Expert in women's health.",
Street: "56 Residency Road", City: "Chennai", State: "Tamil Nadu", Postal Code:
"600002", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E19
- **Result:** Error

Test Case 20

- **Input:**
Specialty: "Psychiatrist", Experience: 30, Contact Number: "9876123450",
Consultation Fee: 1000, Biography: "Experienced in mental health treatment.",
Street: "90 North Avenue", City: "", State: "Kerala", Postal Code: "695001",
Country: "India", Profile Picture: "valid_image.png"
- **Equivalence Classes Covered:** E21
- **Result:** Error

Test Case 21

- **Input:**
Specialty: "ENT Specialist", Experience: 5, Contact Number: "9876543210",
Consultation Fee: 600, Biography: "Specialized in ear, nose, throat.",
Street: "12 MG Road", City: "Delhi@123", State: "Delhi", Postal Code: "110001",
Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E22
- **Result :** Error

Test Case 22

- **Input:**
Specialty: "ENT Specialist", Experience: 5, Contact Number: "9876543210",
Consultation Fee: 600, Biography: "Specialized in ear, nose, throat.",
Street: "12 MG Road", City: "Delhi", State: "gj14", Postal Code: "110001",
Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E24
- **Result :** Error

Test Case 23

- **Input:**
Specialty: "Surgeon", Experience: 15, Contact Number: "9876543210",
Consultation Fee: 1200, Biography: "Experienced surgeon.",
Street: "45 Residency Road", City: "Delhi", State: "D3lhi@", Postal Code:
"110001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E25
- **Result:** Error

Test Case 24

- **Input:**
Specialty: "Dermatologist", Experience: 20, Contact Number: "9812345670",
Consultation Fee: 500, Biography: "Expert in skincare.",
Street: "56 Residency Road", City: "Delhi", State: "Tamil Nadu", Postal Code:
"11A001", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E27
- **Result:** Error

Test Case 25

- **Input:**
Specialty: "Neurologist", Experience: 5, Contact Number: "9912345678",
Consultation Fee: 700, Biography: "Neurology specialist.",
Street: "78 Green Park", City: "Mumbai", State: "Maharashtra", Postal Code:
"12345", Country: "India", Profile Picture: "valid_image.png"
- **Equivalence Classes Covered:** E28
- **Result:** Error

Test Case 26

- **Input:**
Specialty: "Orthopedic", Experience: 10, Contact Number: "9876541234",
Consultation Fee: 400, Biography: "Orthopedic surgeon.",
Street: "12 MG Road", City: "Bangalore", State: "Karnataka", Postal Code:
"1234567", Country: "India", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E29
- **Result:** Error

Test Case 27

- **Input:**
Specialty: "Cardiologist", Experience: 25, Contact Number: "9723456789",
Consultation Fee: 2000, Biography: "Heart specialist.",
Street: "23 Broadway", City: "Chennai", State: "Tamil Nadu", Postal Code:
"600001", Country: "", Profile Picture: "valid_image.jpg"
- **Equivalence Classes Covered:** E31
- **Result:** Error

Test Case 28

- **Input:**
Specialty: "Pediatrician", Experience: 18, Contact Number: "9816541230",
Consultation Fee: 300, Biography: "Child healthcare expert.",
Street: "34 Residency Road", City: "Delhi", State: "Delhi", Postal Code: "110001",
Country: "India", Profile Picture: ""
- **Equivalence Classes Covered:** E33
- **Result:** Error

Test Case 29

- **Input:**
Specialty: "ENT Specialist", Experience: 7, Contact Number: "9876123456",
Consultation Fee: 450, Biography: "Ear, nose, throat specialist.",
Street: "78 Green Avenue", City: "Kolkata", State: "West Bengal", Postal Code:
"700001", Country: "India", Profile Picture: "invalid_file.exe"
- **Equivalence Classes Covered:** E34
- **Result:** Error

Test Case 30

- **Input:**
Specialty: "Psychiatrist", Experience: 12, Contact Number: "9874563210",
Consultation Fee: 800, Biography: "Mental health expert.",
Street: "45 Residency Road", City: "Mumbai", State: "Maharashtra", Postal Code:
"400001", Country: "India", Profile Picture: "large_image.jpg (6 MB)"
- **Equivalence Classes Covered:** E35
- **Result:** Error