**User class**

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| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Create a valid user | * User’s all valid attributes | * User is created successfully |
| * Test Case 2 | * Update username | * New valid username | * Username is updated successfully |
| * Test Case 3 | * Update email | * New valid email | * Email is updated successfully |
| * Test Case 4 | * Update password | * New valid password | * Password is updated successfully |
| * Test Case 5 | * Update role | * New valid role | * Role is updated successfully |
| * Test Case 6 | * Update address | * New valid address | * Address is updated successfully |
| * Test Case 7 | * Set null username for the user | * User’s valid null username | * Error message: Attempt to set a null username for the user |
| * Test Case 8 | * Set null email for the user | * User’s valid null email | * Error message: Attempt to set a null email for the user |
| * Test Case 9 | * Set null password for the user | * User’s valid null password | * Error message: Attempt to set a null password for the user |
| * Test Case 10 | * Set null role for the user | * User’s valid null role | * Error message: Attempt to set a null role for the user |
| * Test Case 11 | * Set null address for the user | * User’s valid null address | * Error message: Attempt to set a null address for the user |
| * Test Case 12 | * Set empty username for the user | * User’s valid empty username | * Username is set successfully with an empty value |
| * Test Case 13 | * Set empty email for the user | * User’s valid empty email | * Email is set successfully with an empty value |
| * Test Case 14 | * Set empty password for the user | * User’s valid empty password | * Password is set successfully with an empty value |
| * Test Case 15 | * Set empty role for the user | * User’s valid empty role | * Role is set successfully with an empty value |
| * Test Case 16 | * Set empty address for the user | * User’s valid empty address | * Address is set successfully with an empty value |
| * Test Case 17 | * Create a user with a null username | * User’s null username | * Error message: Attempt to create a user with a null username |
| * Test Case 18 | * Create a user with an empty username | * User’s empty username | * Error message: Attempt to create a user with an empty username |
| * Test Case 19 | * Create a user with a null email | * User’s null email | * Error message: Attempt to create a user with a null email |
| * Test Case 20 | * Create a user with an empty email | * User’s empty email | * Error message: Attempt to create a user with an empty email |