# Extended Testing Table for Fixed Code

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| Test Case ID | Test Category | Scenario | Input (Example) | Expected Output | Result |
| TC01 | Unit Test | load\_users() returns dictionary | N/A (file exists) | users dictionary is returned | Pass |
| TC02 | Unit Test | save\_user() adds new entry | user1, pass1 | Entry written to users.txt | Pass |
| TC03 | Input Validation | Register with blank username | "", pass123, pass123 | Error: All fields are required | Pass |
| TC04 | Input Validation | Register with blank password | user123, "", "" | Error: All fields are required | Pass |
| TC05 | Input Validation | Use colon in username | user:123, pass123 | Error: Invalid characters | Pass |
| TC06 | Input Validation | Use special characters in password | user123, @pass#123 | Error: Invalid characters | Pass |
| TC07 | Input Validation | Input below minimum length | us, pa, pa | Error: Username/Password too short | Pass |
| TC08 | Functional | Register valid user | user1, pass1, pass1 | Registration successful | Pass |
| TC09 | Functional | Register same user again | user1, pass1 | Error: Username already exists | Pass |
| TC10 | Functional | Login with correct credentials | user1, pass1 | Login Successful | Pass |
| TC11 | Functional | Login with wrong password | user1, wrongpass | Login Failed (attempt 1/3) | Pass |
| TC12 | Functional | Login after 3 wrong attempts | user1, wrongpass ×3 | App exits with blocked message | Pass |
| TC13 | GUI Behavior | Open register window | Click “Register” | New window appears | Pass |
| TC14 | GUI Behavior | Open multiple register windows | Click “Register” multiple times | Multiple windows open | Pass |
| TC15 | GUI Behavior | Field clearance after login | user1, pass1 | Fields are cleared after success | Pass |
| TC16 | File Handling | File content check after new registration | Register user2 | users.txt contains new entry | Pass |
| TC17 | File Handling | No duplicate entries written | Re-register user1 | No duplicate added | Pass |
| TC18 | Password Confirmation | Mismatched passwords during registration | pass123 / pass321 | Error: Passwords do not match | Pass |
| TC19 | Exit Button | Click “Exit” button | Clicked | App closes safely | Pass |
| TC20 | Case Sensitivity | Try uppercase vs lowercase login | User1 / user1 | Case-sensitive match required | Pass |