White Box Testing

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| **Test No.** | **Relevant Requirement (s)** | **Type** | **Action** | **Expected Result** | **Outcome** |
| 1 | 2, 3 | N | Load Login/Register page (http://csed-server.herokuapp.com/) | Login/Register page displays. | P |
| 2 | 3 | N | Click the “No account? Register here.” Button twice. | The form swaps from the Login form to the Register and then back to the Login form. | P |
| 3 | 3, 11, 12, 13, 14, 15, 16 | N | Go to the Register form and enter: Username: “testAccount”, Password: “password123”, Repeat: “password123”, Click “Register” | The form should close, and the window should redirect to Spotify’s login portal. | P |
| 4 | 3, 26 | E | Go to the Register form and enter:  Username: “testAccount2”, Password: “password123”, Repeat: “password12”, Click “Register” | Error message displays: “Passwords do not match.” | P |
| 5 | 3, 18 | E | Go to the Register form and enter:  Username: “”, Password: “password123”, Repeat: “password123”, Click “Register” | Error message displays: “You may not leave the username field empty.” | P |
| 6 |  | E | Go to the Register form and enter:  Username: “testAccount”, Password: “password12”, Repeat: “password12”, Click “Register” | Error message displays: “That username is already taken.” | P |
| 7 |  | E | Go to the Register form and enter:  Username: “testAccount2”, Password: “”, Repeat: “”, Click “Register” | Error message displays:  “You may not leave the password field empty.” | P |
| 8 |  | B | Go to the Register form and enter:  Username: “ ” (space character)  Password: “password123”, Repeat: “password123”, Click “Register” | Error message displays: “You may not leave the username field empty.” | F |
| 9 |  | B  PF | Go to the Register form and enter:  Username: “ ” (two space characters), Password: “password123”, Repeat: “password123”, Click “Register” | Error message displays: “You may not leave the username field empty.” | P |
| 10 |  | N | Check database for account “testAccount” | Account “testAccount” is in database ‘Users’ table | P |
| 11 |  | E | Check database for account “testAccount2” | Account “testAccount2” is not in database ‘Users’ table | P |
| 12 |  | N | Go to the Login form and enter:  Username: “testAccount”, Password: “password123” Click “Login” | The form should close, and the window should redirect to the landing page. | P |
| 13 |  | E | Go to the Login form and enter:  Username: “testAccount”, Password: “password12” Click “Login” | Error message displays: “Incorrect username or password.” | P |
| 14 |  | E | Go to the Login form and enter:  Username: “testAccount2”, Password: “password123”, Repeat: “password12”, Click “Login” | Error message displays: “Incorrect username or password.” | P |
| 15 |  | E | Go to the Login form and enter:  Username: “testAccount”, Password: “”, Click “Login” | Error message displays: “Incorrect username or password.” | P |
| 16 |  | N | Check database for account “testAccount” | Random string should be generated and stored in database ‘Users’ table ‘auth\_key’ field after being sent as a unique ID for Spotify’s callback request | P |
| 17 |  | N | Login to Spotify using the previously opened Spotify login portal. Check database for account “testAccount” | User should be redirected to the landing page.  Previously generated random string should be replaced with an authorisation key from Spotify | P |
| 18 |  | N | Check database for account “testAccount” | A temporary access key should have been generated by the backend, storing a refresh token from Spotify in the database ‘Users’ table ‘refresh\_token’ field. | P |

Testing evidence

1 2, 3 N Load Login/Register page (http://csed-server.herokuapp.com/) Login/Register page displays. P

2 3 N Click the “No account? Register here.” Button twice. The form swaps from the Login form to the Register and then back to the Login form. P

3 3, 11, 12, 13, 14, 15, 16 N Go to the Register form and enter:

Username: “testAccount”

Password: “password123”

Repeat: “password123”

Click “Register” The form should close, and the window should redirect to Spotify’s login portal. P

4 3, 26 E Go to the Register form and enter:

Username: “testAccount2”

Password: “password123”

Repeat: “password12”

Click “Register” Error message displays: “Passwords do not match.” P

5 3, 18 E Go to the Register form and enter:

Username: “”

Password: “password123”

Repeat: “password123”

Click “Register” Error message displays: “You may not leave the username field empty.” P

6 E Go to the Register form and enter:

Username: “testAccount”

Password: “password12”

Repeat: “password12”

Click “Register” Error message displays: “That username is already taken.” P

7 E Go to the Register form and enter:

Username: “testAccount2”

Password: “”

Repeat: “”

Click “Register” Error message displays:

“You may not leave the password field empty.” P

8 B Go to the Register form and enter:

Username: “ ” (space character)

Password: “password123”

Repeat: “password123”

Click “Register” Error message displays: “You may not leave the username field empty.” F

9 B

PF

Go to the Register form and enter:

Username: “ ” (two space characters)

Password: “password123”

Repeat: “password123”

Click “Register” Error message displays: “You may not leave the username field empty.” P

10 N Check database for account “testAccount” Account “testAccount” is in database ‘Users’ table P

11 E Check database for account “testAccount2” Account “testAccount2” is not in database ‘Users’ table P

12 N Go to the Login form and enter:

Username: “testAccount”

Password: “password123” Click “Login” The form should close, and the window should redirect to the landing page. P

13 E Go to the Login form and enter:

Username: “testAccount”

Password: “password12” Click “Login” Error message displays: “Incorrect username or password.” P

14 E Go to the Login form and enter:

Username: “testAccount2”

Password: “password123”

Repeat: “password12”

Click “Login” Error message displays: “Incorrect username or password.” P

15 E Go to the Login form and enter:

Username: “testAccount”

Password: “”

Click “Login” Error message displays: “Incorrect username or password.” P

16 N Check database for account “testAccount” Random string should be generated and stored in database ‘Users’ table ‘auth\_key’ field after being sent as a unique ID for Spotify’s callback request P

17 N Login to Spotify using the previously opened Spotify login portal.

Check database for account “testAccount” User should be redirected to the landing page.

Previously generated random string should be replaced with an authorisation key from Spotify P

18 N Check database for account “testAccount” A temporary access key should have been generated by the backend, storing a refresh token from Spotify in the database ‘Users’ table ‘refresh\_token’ field. P