

Login Functionality

Test Scenarios

1. Positive Scenarios

- Successful login with valid email and password.
- Forgot Password functionality with a valid registered email.
- Successful password change after using a temporary password.

2. Negative Scenarios

- Invalid login attempts with incorrect credentials.
- Attempting login with blank fields.
- Using an invalid email format.
- Trying to reset the password with an unregistered email.
- System errors during login or password reset.

3. Edge Cases

- Passwords of maximum allowed length (50 characters).
- Email addresses with special characters.
- Handling mixed-case sensitivity in emails and passwords.
- Entering the exact minimum password length (8 characters).

4. End-to-End Scenarios

- Forgot Password flow: From requesting a reset to successfully logging in with the new password.
- User changes the password after the first login with a temporary password.

Detailed Test Cases

Scenario 1: Successful Login

- Test Case 1.1: Valid Login
 - Precondition: User is a licensed and registered user with valid credentials.
 - Steps:
 1. Navigate to the login page.
 2. Enter a valid email address.
 3. Enter a valid password.
 4. Click the "Log In" button.
 - Expected Result: User is redirected to the Order Entry screen with an active session.

Scenario 2: Forgot Password Functionality

- Test Case 2.1: Reset Password with Valid Email
 - Precondition: User email is registered in the system.

- Steps:
 1. Click on the "Forgot Password" link.
 2. Enter a registered email address.
 3. Click "Reset Password."
- Expected Result: Temporary password is sent to the user's email.

Scenario 3: Password Change

- Test Case 3.1: Change Password After Login with Temporary Password
 - Precondition: User logs in using a temporary password.
 - Steps:
 1. Log in with the temporary password.
 2. Navigate to the "Change Password" screen.
 3. Enter a new password (minimum 8 characters).
 4. Confirm the new password.
 5. Click "Submit."
 - Expected Result: Password is updated successfully, and the user is redirected to the main screen.

Scenario 4: Invalid Login Attempts

- Test Case 4.1: Incorrect Email or Password
 - Precondition: Email/password combination does not match any records.
 - Steps:
 1. Enter an invalid email or password.
 2. Click "Log In."
 - Expected Result: Error message "Invalid Email Address or Password."
- Test Case 4.2: Blank Fields
 - Precondition: Email and/or password field is left blank.
 - Steps:
 1. Leave the fields blank.
 2. Click "Log In."
 - Expected Result: Error message "This is a required field."
- Test Case 4.3: Invalid Email Format
 - Steps:
 1. Enter an incorrectly formatted email (e.g., "[useremail.com](#)").
 2. Click "Log In."
 - Expected Result: Error message "Please supply a valid email address."

Scenario 5: Forgot Password Negative Scenarios

- Test Case 5.1: Reset Password with Unregistered Email

- **Precondition:** Email is not registered in the system.
- **Steps:**
 1. Click on the "Forgot Password" link.
 2. Enter an unregistered email.
 3. Click "Reset Password."
- **Expected Result:** Error message prompting to contact support.

Scenario 6: Edge Cases

- **Test Case 6.1: Maximum Password Length**
 - **Steps:**
 1. Enter a 50-character password.
 2. Log in with this password.
 - **Expected Result:** Login is successful if credentials match.
- **Test Case 6.2: Special Characters in Email and Password**
 - **Steps:**
 1. Use special characters in both email and password fields.
 2. Click "Log In."
 - **Expected Result:** Successful login if credentials are valid.

Scenario 7: End-to-End Scenarios

- **Test Case 7.1: Complete Forgot Password Flow**
 - **Precondition:** User email is registered in the system.
 - **Steps:**
 1. Click on the "Forgot Password" link.
 2. Enter a registered email and click "Reset Password."
 3. Receive a temporary password via email.
 4. Log in using the temporary password.
 5. Navigate to the "Change Password" screen and update the password.
 - **Expected Result:** User successfully logs in and updates the password.

Execution Summary

For each test case:

1. **Ensure Preconditions:** Validate that preconditions are met (e.g., email is registered, temporary password is valid).
2. **Execute Steps:** Follow the defined steps in the test case.
3. **Validate Results:** Compare actual outcomes with expected results, including error messages and successful redirects.

4. Log Observations: Note any deviations or issues observed during testing.

Preconditions

1. The user is a licensed user of Order Entry and has been configured in the system.

- **Test Case 1.1:** Verify access for a licensed user.
 - **Steps:**
 1. Configure a user as licensed in the system.
 2. Attempt login with valid credentials.
 - **Expected Result:** User is able to log in successfully.
- **Test Case 1.2:** Attempt login for an unlicensed user.
 - **Steps:**
 1. Ensure the user is not licensed in the system.
 2. Attempt login with valid credentials.
 - **Expected Result:** Error message indicating lack of access.

2. The user has an internet connection with their desired browser open.

- **Test Case 2.1:** Verify login with a stable internet connection.
 - **Steps:**
 1. Open the login page in a browser with a stable connection.
 2. Enter valid credentials and log in.
 - **Expected Result:** User logs in successfully.
 - **Test Case 2.2:** Attempt login without an internet connection.
 - **Steps:**
 1. Disconnect from the internet.
 2. Attempt to access the login page.
 - **Expected Result:** Error message indicating no internet connection.
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Postconditions

1. An active session is established, and the user is taken to the Order Entry Screen.

- **Test Case 3.1:** Verify session establishment post-login.
 - **Steps:**
 1. Log in with valid credentials.
 - **Expected Result:** Active session is established, and the user is redirected to the Order Entry Screen.
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Normal Flow

1. User logs in with valid credentials.

- **Test Case 4.1:** Verify successful login flow.
 - **Steps:**
 1. Navigate to the login page.
 2. Enter a valid email address and password.
 3. Click "Log In."
 - **Expected Result:** User is redirected to the Order Entry screen.
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Alternate Flows

1. User has forgotten their password.

- **Test Case 5.1:** Verify the Forgot Password flow.
 - **Steps:**
 1. Navigate to the login page.
 2. Click "Forgot Password."
 3. Enter a registered email address.
 4. Click "Reset Password."
 5. Log in with the temporary password.
 6. Change the password and log in again.
 - **Expected Result:** User successfully resets their password and logs in.
 - **Test Case 5.2:** Reset Password with unregistered email.
 - **Steps:**
 1. Enter an unregistered email on the Forgot Password screen.
 2. Click "Reset Password."
 - **Expected Result:** Error message prompts the user to contact technical support.
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Exceptions

1. Invalid Email or Password

- **Test Case 6.1:** Log in with invalid credentials.
 - **Steps:**
 1. Enter an incorrect email or password.
 2. Click "Log In."
 - **Expected Result:** Error message "Invalid Email Address or Password."

2. Blank Fields

- **Test Case 6.2:** Attempt login with blank email or password fields.
 - **Steps:**

1. Leave fields blank.

2. Click "Log In."

- **Expected Result:** Error message "This is a required field."

3. System Unavailability

- **Test Case 6.3:** Attempt login during a system outage.

- **Steps:**

1. Simulate a system error.

2. Attempt login.

- **Expected Result:** Error message "The system is temporarily unavailable."

4. Mismatched Password Fields During Change

- **Test Case 6.4:** Enter mismatched new password and confirm password.

- **Steps:**

1. Enter a new password.

2. Enter a different confirm password.

3. Click "Submit."

- **Expected Result:** Error message "The passwords you entered do not match."

5. Invalid Email Format

- **Test Case 6.5:** Enter an invalid email format.

- **Steps:**

1. Enter an email without "@" or ".com".

2. Click "Log In."

- **Expected Result:** Error message "Please supply a valid email address."

Special Requirements

1. Focus is set in the Email Address field with ghost text.

- **Test Case 7.1:** Verify focus and ghost text.

- **Steps:**

1. Open the login page.

- **Expected Result:** Focus is on the Email Address field, and ghost text is visible.

Assumptions

1. Temporary passwords must be changed on first login.

- **Test Case 8.1:** Verify first login with a temporary password.

- **Steps:**

1. Log in with a temporary password.

2. Change the password.

- **Expected Result:** User is prompted to change the password, and the new password is saved.

2. **Password restrictions: 8-character minimum.**

- **Test Case 8.2:** Verify login with an 8-character password.

- **Steps:**

1. Create an 8-character password.
2. Log in with this password.

- **Expected Result:** User logs in successfully.

- **Test Case 8.3:** Attempt login with a 7-character password.

- **Steps:**

1. Enter a 7-character password.
2. Click "Log In."

- **Expected Result:** Error message indicating password does not meet the requirements.
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End-to-End Scenarios

1. **Complete Forgot Password Flow**

- **Test Case 9.1:** From password reset to successful login.

- **Steps:**

1. Click "Forgot Password."
2. Enter a registered email and reset the password.
3. Log in with the temporary password.
4. Change the password.

- **Expected Result:** User completes the entire flow successfully.
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Test Case 1.1: Verify Default Values on Screen Load

Precondition: User has an active session and accesses the Order Entry screen for the first time.

Steps:

1. Log in to the Order Entry system.
 2. Navigate to the Order Entry screen.
 3. Observe the values displayed in the "Country" and "State" fields. **Expected Result:**
 - "Country" defaults to "United States."
 - "State" defaults to "AZ."
 - All other fields are blank.
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Scenario 2: Undo Changes

Test Case 2.1: Verify Undo Changes Button Functionality

Precondition: User has entered some data in the fields.

Steps:

1. Log in to the Order Entry system.
2. Navigate to the Order Entry screen.
3. Modify any field value.
4. Click the "Undo Changes" button. **Expected Result:**
 - All fields reset to their default values:
 - "Country" = "United States"
 - "State" = "AZ"
 - Other fields are blank.

Test Case 2.2: Undo Changes with No Modifications

Precondition: User has not modified any field.

Steps:

1. Log in to the Order Entry system.
 2. Navigate to the Order Entry screen.
 3. Click the "Undo Changes" button without making any changes. **Expected Result:**
 - No errors or warnings are displayed.
 - Fields remain unchanged.
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Scenario 3: Shipping and Handling Charges

Test Case 3.1: Verify Shipping Charges for Orders Under \$50

Precondition: User has entered items totaling \$49.99 or less.

Steps:

1. Add items to the order with a total cost of \$49.99.
2. Save the order. **Expected Result:**
 - Shipping and handling charges = \$5.00.

Test Case 3.2: Verify Shipping Charges for Orders Between \$50 and \$100

Precondition: User has entered items totaling \$50.00 to \$99.99.

Steps:

1. Add items to the order with a total cost of \$75.00.
2. Save the order. **Expected Result:**
 - Shipping and handling charges = \$7.50.

Test Case 3.3: Verify Shipping Charges for Orders Between \$100 and \$250

Precondition: User has entered items totaling \$100.00 to \$249.99.

Steps:

1. Add items to the order with a total cost of \$150.00.
2. Save the order. **Expected Result:**

- Shipping and handling charges = \$9.00.

Test Case 3.4: Verify Shipping Charges for Orders Above \$250

Precondition: User has entered items totaling \$250.01 or more.

Steps:

1. Add items to the order with a total cost of \$300.00.
 2. Save the order. **Expected Result:**
 - Shipping and handling charges = \$15.00.
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Scenario 4: Negative Cases**Test Case 4.1: Verify Incorrect Shipping Charges Are Not Applied**

Precondition: System must apply correct charges based on order price.

Steps:

1. Add items totaling \$150.00.
2. Save the order. **Expected Result:**
 - Shipping and handling charges = \$9.00.
 - Charges like \$7.50 or \$15.00 are not applied.

This structure ensures comprehensive test coverage for all aspects of the **Log In Use Case**. Let me know if you need further elaboration or additional test cases!