## Section 1. Digikala Login Test Cases

**Test environment:** Windows OS with Google Chrome browser
**Test data:** An active account with a valid Email address, phone number and password is available.

**Test case 01:** Successful Login with Email

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Type a valid Email address and click on login | Password input modal loads, showing the password field and login button. | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
| Type in valid password and click on Login | ● User should be redirected to the Digikala main page in a logged-in state. <br> ● the login/signup button is replaced by a profile icon | |
| Click the profile icon | Account details menu opens as a side menu | |

Note: This test case is based on the current Digikala behavior, where the login button remains enabled upon navigating to the login page. An improvement suggestion is to keep the login button disabled until a valid Email address is entered in the Email field.

**Test Case 02:** Successful login with phone number

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Type a valid phone number and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page.  Verify that the login page is fully loaded, all required UI elements are visible, and there are no |

| | | console errors. |
|---|---|---|
| Type a valid password and Click on Login | <ul><li>User should be redirected to the Digikala main page in a logged-in state.</li><li>The login/signup button should no longer be visible</li><li>Clicking on the profile icon should display the account details.</li></ul> | |

**Test Case 03:** Successful Login with phone number and OTP

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Type a valid phone number and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
| Click on Login with OTP | <ul><li>A message is displayed confirming that the OTP code has been sent.</li><li>An expiry timer is visible, indicating how long the OTP remains valid.</li><li>The OTP code is received via SMS.</li><li>Submit button should be active</li></ul> | |

| | | |
|---|---|---|
| Type the OTP code | <ul><li>User should be redirected to the Digikala main page in a logged-in state.</li><li>The login/signup button should no longer be visible</li><li>Clicking on the profile icon should display the account details.</li></ul> | User have access to the inbox of the phone number used for login |

**Test Case 04:** Login attempts with Invalid Email

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Type an Invalid Email address and Click on Login | <ul><li>An error message with title "Invalid Email address" should be displayed.</li><li>The login button should remain active.</li><li>The error message should disappear after a few seconds.</li></ul> | |

Note: this test case is written based on the current digikala behaviour, however there is a security concern in this behaviour where hackers are able to figure out the valid Email addresses of the accounts created. Improvement suggestion is to show invalid credential after user submit both username and password.

**Test Case 05:** Login attempt with Invalid Password

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|

| Type a valid Email and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
|---|---|---|
| Input an invalid password | ● Invalid password error message should be visible<br>● The password field should not be cleared | |

Note: this test case is written based on the current digikala behaviour, however the behaviour can be improved by clearing the password field in each unsuccessful attempt

**Test Case 06:** Login attempt with Invalid OTP code

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Type a valid phone number and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
| Click on Login with OTP | ● OTP code should be received as an SMS<br>● A message is displayed confirming that the OTP code has been sent.<br>● An expiry timer is visible, indicating how long the OTP remains valid.<br>● Submit button should be active | |

| Type an Invalid OTP code | ● Invalid OTP code error message should appear<br>● OTP field should not get cleared<br>● Submit button should remain active | |
|---|---|---|

Note: this test case is written based on the current digikala behaviour, however the behaviour can be improved by clearing the OTP field in each unsuccessful attempt and submit button get deactivated.

**Test Case 07:** Login attempt with expired OTP code

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Type a valid phone number and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
| Click on Login with OTP | ● OTP code should be received as an SMS<br>● A message is displayed confirming that the OTP code has been sent.<br>● An expiry timer is visible, indicating how long the OTP remains valid.<br>● Submit button should be active | User have access to the inbox of the phone number used for login |
| Type an expired OTP code | Invalid OTP code error message should appear | An Expired OTP code is generated |

**Test Case 08:** Successful Reset password with Email using forgot password option

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Input valid Email address | The password input modal should open | An active user account with a valid Email and password already exists |
| Click on Forgot password | ● "Reset The password" modal should open<br>● Email address should be written in the Email field by default | |
| Click on submit | ● An Email to reset password should be received<br>● A clear on-screen message appears confirming that the reset Email has been sent. | User have access to the inbox of the Email used for login |
| Click on the reset password link from the Email | User should be redirected to reset password page | |
| Input new password and click on submit | ● Success message should appear<br>● The login page should open successfully | |

**Test Case 09:** Successful Reset password with Phone number using forgot password option

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Input valid phone number | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
| Click on Forgot password | ● "Reset The password" modal should open | |

| | ● Phone number should be written in the phone number field by default | |
|---|---|---|
| Click on submit | An OTP code to reset the password should be received A message should appear confirming that OTP is sent | User have access to the inbox of the phone number used for login |
| Type the OTP code received | User should be redirected to reset password page | |
| Input new password and click on submit | ● Success message should appear<br>● The login page should open successfully in logged out status | |

Note: this test case is written based on assumption as I didn't have access to my phone to try this out.


Test Case 10: login attempt with old password after resetting the password

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Login to an account and reset password | Password should reset successfully | ● Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors.<br>● User have access to the inbox of the Email used for login<br>Use Chrome |

| | | as the browser and Windows as OS |
|---|---|---|
| Try to login to the same account using the old password | Incorrect password error message should appear | |

Test Case 11: Attempt to  login with account password instead of OTP code

| Action | Expected result | Pre Conditions & Setup |
|---|---|---|
| Click on Login with OTP | ● OTP code should be received via Email<br>● OTP modal should open | ● Navigate to https://www.digikala.com.  Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors.<br>● User have access to the inbox of the Email used for login |
| Type the account password | Invalid OTP code error should appear | |

Test Case 12: Resend OTP code via message

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Input a valid phone number and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page.  Verify that the login page is fully loaded, all required UI elements are visible, and there are no |

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
|  |  | console errors. |
| Click on Login with OTP | ● OTP code should be received via text message<br>● OTP modal should open<br>● A message is displayed confirming that the OTP code has been sent. | User have access to the inbox of the phone number used for login |
| Click on Resend OTP using Text Message | ● New OTP code should be received via text message<br>● OTP modal should remain open | OTP cool down time is considered |
| Type the new OTP code | Login should be successful |  |

Test Case 13: Resend OTP code via Phone Call

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Input a valid phone number and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors.. |
| Click on Login with OTP | ● OTP code should be received via text message<br>● OTP modal should open<br>● A message is displayed confirming that the OTP code has been sent. | User have access to the inbox of the Email used for login |
| Click on Resend OTP via call | ● New OTP code should be received via phone call<br>● OTP modal should remain open | OTP cool down time is considered<br>User have access to receive call from the phone number used for login |

| Type the new OTP code | Login should be successful | |
|---|---|---|

## Test Case 14: Account lock after multiple unsuccessful login attempts

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Attempt to login with incorrect password 5 times | Every try should be unsuccessful and receive the invalid password message | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
| Retry to login to the same account. | Login should be unsuccessful with error message "too many attempts" | |

## Test Case 15: Logged in session should not be logged in in a separate session

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Login to an account | Login should be successful | <ul><li>Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors.</li><li>Use Chrome as the browser and windows as OS</li></ul> |
| Copy the URL and paste it to a new browser | Digikala should open in logged out status | |

## Test Case 16: Click on back page button after submit Email address

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|

| Type a valid Email address and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
|---|---|---|
| Click on back button (the arrow on the page not the browser back button) | ● User should be redirected to previous page (Email input)<br>● Email field should be clear | |
| Click on back button one more time | User should be redirected to Digikala home page | |

Test Case 17: Click on browser back page button after submit Email address

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Type a valid Email address and click on login | The password input modal should open | Navigate to https://www.digikala.com. Click the Login/Signup button on the main page. Verify that the login page is fully loaded, all required UI elements are visible, and there are no console errors. |
| Click on browser back button | ● User should be redirected to previous page (Email input)<br>● Email field should be clear | |
| Click on browser back button one more time | User should be redirected to Digikala home page | |

Test Case 18: Click on back button after successful login

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Open digikala.com and login to an account | Digikala home page should open in logged in status | |

| | | |
|---|---|---|
| Click on browser back button | User should land back on Digikala Main page in logged in status | |

| Action | Expected Result | Pre Conditions & Setup |
|---|---|---|
| Click on Profile icon | Account setting menu should open as a side menu | Logged in to an account |
| Click on Log out button | <ul><li>Digikala page should open in logged out status</li><li>Login/Sign up button should be visible</li></ul> | |
| Click on Login/Signup button | User should be redirected login page | |

# Section 2. Login test cases in Gherkin

Feature: Login & Authentication flows for Digikala

 As a customer
 I want to log in securely with Email or phone
 So that I can access my account and recover it when needed

 Background:

   Given the user is on the Digikala homepage
   And the homepage loads successfully
   When the user clicks the "Login/Signup" button
   Then the login page opens successfully

Test case 01: Successful Login with Email

   Given an active account exists with a valid Email and password
   When the user enters a valid Email and clicks "Login"
   Then the password modal opens
   When the user enters the valid password and clicks "Login"

Then the user is redirected to the main page in a logged-in state
And the "Login/Signup" button is not visible
And clicking the profile icon shows account details


Test case 02 - Successful login with Phone Number

Given an active account exists with a valid phone number and password
When the user enters a valid phone number and clicks "Login"
Then the password modal opens
When the user enters the valid password and clicks "Login"
Then the user is redirected to the main page in a logged-in state
And the "Login/Signup" button is not visible
And clicking the profile icon shows account details


Test case 03 - Successful login with Phone Number + OTP

Given an active account exists with a valid phone number
And the user can receive SMS to that phone number
When the user enters a valid phone number and clicks "Login"
Then the password modal opens
When the user chooses "Login with OTP"
Then an OTP code is received via SMS
When the user enters the received OTP
Then the user is redirected to the main page in a logged-in state
And the "Login/Signup" button is not visible
And clicking the profile icon shows account details


Test case 04 - Login attempt with Invalid Email

When the user enters an invalid Email address
Then an error message "Invalid Email address" is displayed
And the "Login" button remains active
And the error message disappears after a few seconds


Test case 05 - Login attempt with Invalid Password

Given an active account exists with a valid Email and password
When the user enters the valid Email and clicks "Login"
Then the password modal opens
When the user enters an invalid password
Then an "Invalid password" error message is visible
And the password field is not cleared

# Section 3. Bug Reports

## Bug 01 – Email existence is checked before password entry

**Description:**
When logging in, the system checks whether the email exists immediately after the user inputs it, before the password is entered. This reveals if an email is registered, which is a security risk.
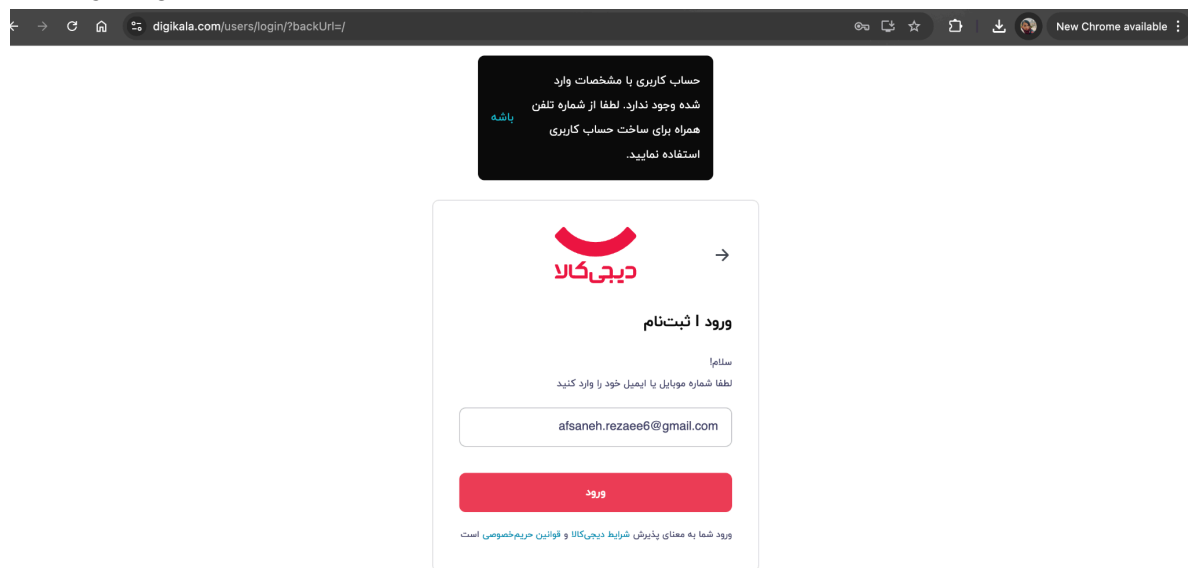
**Steps to Reproduce:**
- Go to the login page.
- Enter an email address in the Email field (valid or invalid).
- Observe the error message or network request response before entering a password.

**Expected Result:**
The system should only check credentials after both email and password are submitted, and return a generic error (e.g., "Invalid email or password") if login fails.

**Severity:** High (security risk)
**Priority:** High



## Bug 02 – Login button is enabled by default

**Description:**
When navigating to the login page, the "Login" button is active even before entering any credentials. This allows clicking it without providing any input.
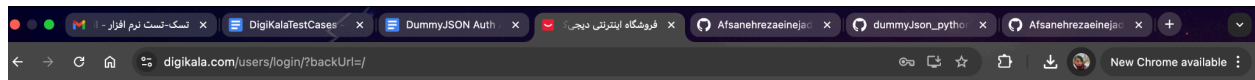
**Steps to Reproduce:**
- Navigate to the login page.
- Check the "Login" button state before entering anything.

**Expected Result:**

The "Login" button should be disabled until a valid email is entered (check it follows email format)
**Severity:** Medium (UX and unnecessary API calls)
**Priority:** Medium



## Bug 03 – Password not cleared after unsuccessful login

**Description:**
If a login attempt fails, the password field still contains the previously entered password.
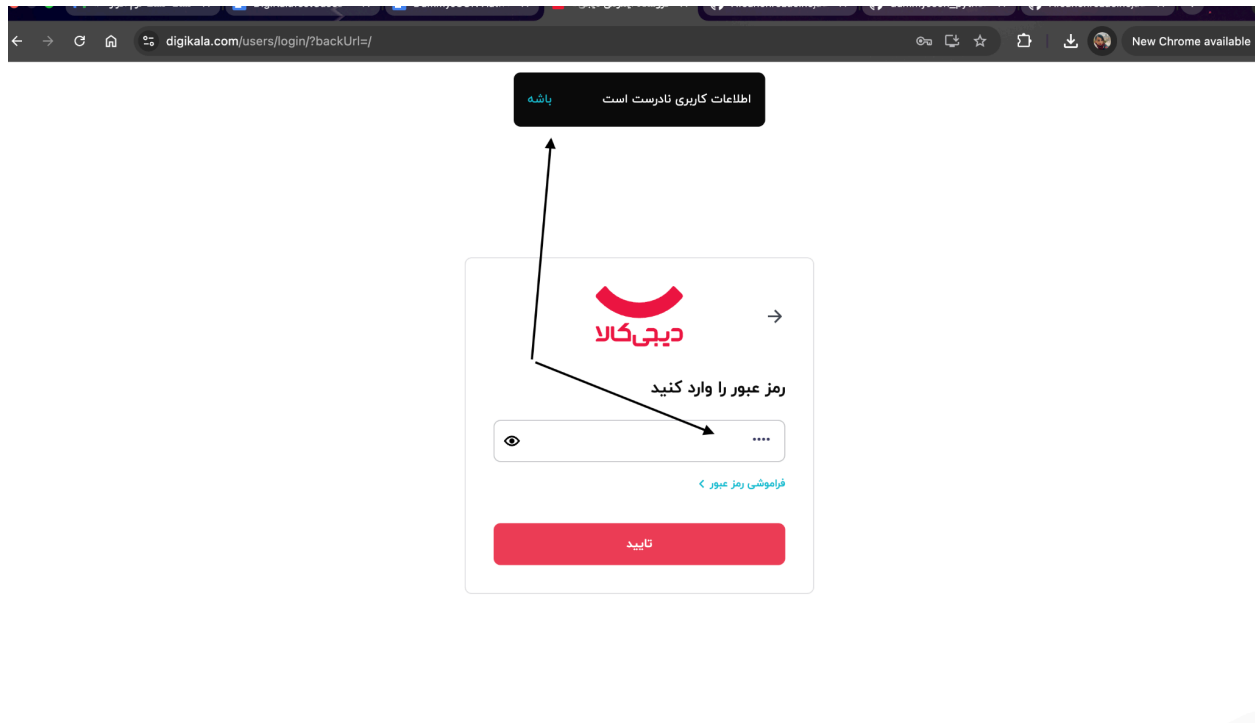**Steps to Reproduce:**
- Go to the login page.
- Enter a valid email and an incorrect password.
- Click "Login".
- Observe that the password field is still filled after the error message.

**Expected Result:**
The password field should be cleared after each unsuccessful login attempt.
**Severity:** Medium (minor security and UX impact)
**Priority**: Medium

## Bug 04 – OTP field not cleared after invalid code

**Description:**
When entering an invalid OTP, the field retains the incorrect code and allows multiple invalid attempts without clearing it. This leads to multiple error messages stacking on the page.

**Steps to Reproduce:**
- Navigate to the OTP entry page.
- Enter an invalid OTP and submit.
- Observe that the field is still filled and multiple invalid code messages appear after repeated submissions.

**Expected Result:**
The OTP field should be cleared after each failed attempt, and the error message should replace the previous one instead of stacking.
**Severity:** Low–Medium (UX issue)
**Priority:** Low–Medium

کد تایید را وارد کنید

حساب کاربری با شماره موبایل ۰۹۱۳۹۱۵۷۱۲۹۹ وجود ندارد. برای ساخت
حساب جدید، کد تایید برای این شماره ارسال گردید.

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کد تایید باید ۵ رقمی باشد

۵۲ : ۰۲  مانده تا دریافت مجدد کد

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