Document title: Login page - test cases

Application: The Internet herokuapp

URL: https://the-internet.herokuapp.com/login

Environment: Web, Desktop (Chrome 144.0.7559.97)

Test type: Manual, Functional

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Successful login with valid credentials

Test case ID	TC_login_positive				
Description	Login with valid credentials				
Requirements	User is on login page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Enter valid username	Username: *tomsmith*	The entered username is displayed in the Username field	As expected	Pass
2	Enter valid password	Password: *SuperSecretPassword!*	The entered password is displayed in the Password field	As expected	Pass
3	Click the Login button		1. Secure page is opened 2. Flash with a message «You logged into a secure area!» 3. Text of the «Login» button is changed to «Logout»	As expected	Pass

Logout

Test case ID	TC_logout				
Description	Logout of the secure page				
Requirements	User is on secure page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Click the Logout button		1. The login page is opened 2. Flash with a message «You logged out of the secure area!»	As expected	Pass

Login with invalid username

Test case ID	TC_login_invalid_username
Description	Login with invalid username
Requirements	User is on login page

Step	Test Steps	Test Data	Expected Result	Actual Result	Status
1	Enter invalid username	Username: *1234*	The entered username is displayed in the Username field	As expected	Pass
2	Enter valid password	Password: *SuperSecretPassword!*	The entered password is displayed in the Password field	As expected	Pass
3	Click the Login button		1. Flash with a message «Your username is invalid!» 2. Input fields are cleared	As expected	Pass

Login with invalid password

Test case ID	TC_login_invalid_password				
Description	Login with invalid password				
Requirements	User is on login page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Enter valid username	Username: *tomsmith*	The entered username is displayed in the Username field	As expected	Pass
2	Enter invalid password	Password: *1234*	The entered password is displayed in the Password field	As expected	Pass
3	Click the Login button		1. Flash with a message «Your username is invalid!» 2. Input fields are cleared	As expected	Pass

Login with invalid username and password

Test case ID	TC_login_invalid_username_password				
Description	Login with invalid username and password				
Requirements	User is on login page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Enter invalid username	Username: *1234*	The entered username is displayed in the Username field	As expected	Pass
2	Enter invalid password	Password: *1234*	The entered password is displayed in the Password field	As expected	Pass
3	Click the Login button		1. Flash with a message «Your username is invalid!» 2. Input fields are cleared	As expected	Pass

Login with empty fields

Test case ID	TC_login_empty_fields
Description	Login with empty fields

Requirements	User is on login page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Click the Login button	Both username and password fields are empty	Flash with a message «Your username is invalid!»	As expected	Pass

Close flash message

Test case ID	TC_login_flash_close				
Description	Close the flash message				
Requirements	User is on login/secure page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Click the Close (X) button on the flash		Flash is closed	As expected	Pass

Open the Elemental Selenium link

Test case ID	TC_powered_by_link				
Description	Open the external website link				
Requirements	User is on login/secure page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Click on «Elemental Selenium» button		The «Elemental Selenium» website is opened in a new tab	As expected	Pass

Open the GitHub link

Test case ID	TC_github_link				
Description	Open the external website link				
Requirements	User is on login/secure page				
Step	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Status**
1	Click on «Fork me on GitHub» button		The page on GitHub is opened	As expected	Pass

Traceability matrix

Test Case / Requirement	R1: username is valid	R2: password is valid	R4: error flash	R5: login	R6: logout	R7: external link	R8: Flash closes

Test Case / Requirement	R1: username is valid	R2: password is valid	R4: error flash	R5: login	R6: logout	R7: external link	R8: Flash closes
TC_login_positive	•	•		•			
TC_logout					•		
TC_login_invalid_username		•	•				
TC_login_invalid_password	•		•				
TC_login_invalid_username_password			•				
TC_login_empty_fields			•				
TC_login_flash_close							•
TC_powered_by_link						•	
TC_github_link						•	

UX improvements

№	Issue description	Suggested improvement	Purpose of the improvement	Priority
1	Flash message can only be closed via Close (X) button	Consider adding keyboard support (Esc) or auto-dismiss	To improve accessibility and user experience	Medium
2	Flash message «Your username is invalid!» is shown when both login fields are empty	A more helpful validation message (e.g. «Please enter username and password»)	To improve user experience	Medium
3	Flash message «Your username is invalid!» appears when the username is correct, but the password is wrong	Display a single message: «Your username or password is incorrect» for any invalid login attempt	Improve security (do not reveal which field is wrong) and enhance user experience with a clear, user-friendly message	Medium