

***QA Exercice***

**Mathumitha Murugan**

1. **Usecases**

|  |  |
| --- | --- |
| **Use case Name** | **Login** |
| Use case Description | As a registered user I want to be able to login into the platform so that I can use it according to my credentials. |
| Actors | @abtasty users , Non @abtasty users |
| Precondition | The system must be connected to the internet or Ab-tasty Intranet |
| Postcondition | 1. The email must be recognized in the database. 2. If the email is identified as a Single Sign-On the user is redirected to his own platform. 3. The password must be the same as in the database for this user. 4. An error message is displayed if email/password is wrong. 5. After 3 wrong attempts the Captcha must be triggered . 6. Can’t log in with wrong/failed Captcha. 7. For *@abtasty* users, Multi-Factor Authentication code must be provided (sent to account phone number) . 8. If enabled, for a non *@abtasty* user, MFA must be provided. 9. An error message is displayed if the MFA is wrong. 10. From MFA page, I can tick to save the device in session storage and not ask again for it on next log in with the same device. 11. From each step I can go back to email/password with the arrow button, from MFA it’s a different link. 12. From MFA page I can resend another code. |

|  |  |  |
| --- | --- | --- |
| **Main Scenarios** | **Serial number** | **Steps** |
| @abtasty users | 1 | * Enter the email. * Enter the password. |
|  | 2 | * Validate if email is SSO in DB * Allow user to redirect to his own platform |
|  | 2a | * Validate the entered email in the DB. * Validate the entered password whether it is same as in the DB for that user. |
|  | 3 | * Multi-Factor Authentication code is sent to phone number |
|  | 4 | * Click the Retourner link * Displays the previous(password) page |
|  | 5 | * Validate the authentication code. |
|  | 6 | * Allow access to system. |
| Extensions | 1a | * Invalid mail format (azerty) * Error message should be displayed. |
|  | 1b | * Invalid password * Displays Error message. |
|  | 2a | * Invalid Email/Password more than 3 times. * Captcha is generated |
|  | 2b | * Invalid/Failed Captcha |
|  | 5a | * Invalid MFA * Displays error message |
| Non @abtasty users | 1 | * Enter the email. * Enter the password. |
|  | 2 | * Validate if email is SSO in DB * Allow user to redirect to his own platform |
|  | 2a | * Validate the entered email in the DB. * Validate the entered password whether it is same as in the DB for that user. |
|  | 3 | * If MFA not enabled * Allow access to the system. |
|  | 3a | * MFA is sent only if it is enabled. |
|  | 3b | * Click the Retourner Link * Displays the previous (password) page |
|  | 3c | * Validate the authentication code. |
|  | 3d | * Allow access for the System |
| Extensions | 1a | * Invalid mail format (azerty) * Error message should be displayed. |
|  | 2b | * Invalid Email/Password more than 3 times.   Captcha is generated. |
|  | 2c | * Invalid/Failed Captcha |
|  | 3c(i) | * Invalid MFA * Displays error message |

**2. Test Scenarios for login page for @abtasty and non @abtasty users**

**All the below scenarios should be tested in Chrome, Firefox and Edge.**

**Positive Scenarios**

* 1. Enter the valid email address & click next. Verify if the user gets an option to enter the password.
  2. If the Email is identified as SSO, Verify the user should be able to be redirected to his own platform.
  3. Enter the valid password and click next. Verify if user see the password in masked format rather than showing actual text format.
  4. Enter the valid password and click next. Verify if user should be redirected to MFA verification page.
  5. Verify if MFA code is received to the registered Mobile number.
  6. Enter the 6-digit MFA code sent to Mobile number and click ok. Verify that user should be able to be logged in to the system successfully.
  7. If enabled for non @abtasty users, Enter the 6-digit MFA code, and click ok. Verify that user is successfully logged in to the system.
  8. If not enabled for non @abtasty users. Verify that user should be able to login successfully only with valid credentials.
  9. Click Retourner sur la page de connexion on MFA page. Verify that previous page(password) should be displayed.
  10. Click the Renvoyer le code link. Verify if new MFA code is received to the registered Mobile number.
  11. Click the Forgot password button. Verify if users receive an email link to his registered mail id to reset the password.
  12. Click the Reset link on the Email. Verify if users can reset the password successfully.

**Negative Scenarios**

1. Do not Enter the email id and click next. Verify if the user gets an error message.
2. Enter the invalid mail format (azerty)and click next. Verify if user see an error message .
3. Enter the invalid password and click next. Verify if user see an error message.
4. Enter the wrong password more than 3 times. Verify that Captcha is generated.
5. Enter the wrong password more than 6 times. Verify that different captcha selection should be displayed.
6. Keep the system ideal and do not enter the captcha. Verify maximum Session out time should be set for website.
7. Click the arrow button in the password page. Verify that the Email page should be displayed, and the email should be restored.
8. Click the arrow button in the password page and clicks the next button in the email page. Verify that the Entered password should not be restored.
9. Click Ne plus me demander de confirmation pour cet appareil. Verify from the same device to check whether confirmation should not be displayed again.
10. Enter the wrong MFA code. Verify if user sees the error message.

**Test Scenarios to check the languages.**

1. In Home page, Select the language as EN. Verify all the text, error text and buttons in the login page should be displayed in English.
2. In Home page, Select the language as FR. Verify all the text, error text and buttons in the login page should be displayed in French.
3. In Home page, Select the language as DE. Verify all the text, error text and buttons in the login page should be displayed in German.
4. In Home page, Select the language as ES. Verify all the text, error text and buttons in the login page should be displayed in Spanish.

**3. Data set**

**Valid test data**

Registered mail id and password.

Apart from valid mail and password all other data should be failed.

Example:

**Mail:**

1. **Azerty**
2. **AZERT@123.co**
3. [**a@a.a**](mailto:a@a.a)
4. **a&az,g**
5. **a.;@az.c**

**Password:**

1. password
2. 12345
3. 1
4. \*\*\*\*\*\*
5. &&&&&
6. Azerty@123

**4. Automation Script execution steps**

For testing the login page, I have used cypress. Following are the commands to run the script.

**npm install** 🡪 to install cypress from package.json

**Method 1 – Running test via test runner**

**node\_modules\.bin\cypress open** 🡪 this will open the test runner.

In test runner click the CheckingLoginPage.js file 🡪 this will automatically run the test.

**Method 2 – Running test via Terminal**

While Through terminal, cypress run in headless in electron browser

**./node\_modules/.bin/cypress run**  -------------> headless

**./node\_modules/.bin/cypress run --headed**

2. For testing the language in login page, I have used Selenium Python because cypress cannot support cross domain testing.

1. Download chrome driver from <https://chromedriver.chromium.org/downloads> and mention the exe path in the script file.
2. Install Selenium using the command

**pip install selenium** or **python -m pip install selenium**

1. To run the script: **python filename.py**

**Note:**

While testing manually, Login page language is always in French even after changing the language in Home page.

While doing test automation, Login page language is always in English even after changing the language in Home page.