**Testing approach, test cases, bug reports.**

**Tools:**

1. WebStorm to write automated test cases.
2. As part of this assignment, I used Microsoft Word to write test cases, bug reports. However on a real project for writing documentation, I would use:

* Jira - for bug tracking, tracking versions
* Test/Link, TestRail - for test cases, test runs.

**Requirements questions.**

**1.First name field and last name field.**

Currently these fields have only 1 check : not empty field.

There is not any length check or symbol checks. As a first name and last name you can insert only numbers for example.

**2. Email.**

**The regular expression that validates email address:**

**Pattern = “[a-z0-9.\_%+-]**[**+@[a-z0-9.-]+.[a-z]{2,4}$**](mailto:+@[a-z0-9.-]+.[a-z]%7b2,4%7d$)**”**

There are no such checks in this application:

- According to RFC5321- The maximum total length of the local-part of an email address is 64 octets.

- Dot ., provided that it is not the first or last character and provided also that it does not appear consecutively (e.g., John..Doe@example.com is not allowed)(RFC3696).

- It’s not possible to use uppercase letters in the email.

All these cases can be considered as a bug. Depends on requirements.

**Bug report**

5 test cases failed. However there is only 1 bug report at this moment because all these cases should be discussed with the team.

**Check List**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Name** | **Pass/Fail** | **Comment** |
| 1 | Check redirection on “registration” page | Pass |  |
| 2 | Successful registration | Pass |  |
| 3 | Successful login | Pass |  |
| 4 | Email field: email with only capital letters | Fail | There is an error message “Invalid value”  Requirements clarification is needed. |
| 5 | Email field: Maximum total length of Local part < 64 octets | Pass |  |
| 6 | Email field: one letter local part | Pass |  |
| 7 | Email field: lowercase and capital letters in local part | Pass |  |
| 8 | Email field: special symbols in local part | Pass |  |
| 9 | Email field: top level domain in domain name | Pass |  |
| 10 | Email field: digits and dot in local part | Pass |  |
| 11 | Email contains Cyrillic symbols | Pass |  |
| 12 | Email field: dot in the end of local part. | Fail | There is not any error message under the field.  Requirements clarification is needed. |
| 13 | Email field: double dot in the middle of the local part | Fail | There is not any error message under the field.  Requirements clarification is needed. |
| 14 | Email field: dot in the beginning of local part. | Fail | There is not any error message under the field.  Requirements clarification is needed. |
| 15 | Email field: only digits in local part | Pass |  |
| 16 | Email field: Maximum total length of Local part >64 octets | Fail | There is not any error message under the field.  Requirements clarification is needed. |
| 17 | Email field: only special symbols in local part | Pass |  |
| 18 | Empty “Email” field | Pass |  |
| 19 | Empty “Password” field | Pass |  |
| 20 | Empty “First Name” field | Pass |  |
| 21 | Empty “Last Name” field | Pass |  |
| 22 | Short password with only lowercase letters | Pass |  |
| 23 | Password contains 8 symbols (without numbers) | Pass |  |
| 24 | Password contains 8 symbols (without capital letters) | Pass |  |
| 25 | Password contains 8 symbols (without lowercase letters) | Pass |  |
| 26 | Password contains Cyrillic symbols | Pass |  |
| 27 | “Show password” button check | Pass |  |
| 28 | Login: wrong password | Pass |  |
| 29 | Login: empty “Password” field | Pass |  |
| 30 | Login: empty “Email” field | Pass |  |

**Test cases**

|  |  |  |
| --- | --- | --- |
| **ID:** | 001 | |
| **Title:** | Check redirection on “registration” page | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
|  | | |
| **Steps:** |  |  |
| 1. Click on “Register new account” button | New account page is opened -Create new account.  There is a header “Create new account” on the page |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 002 | |
| **Title:** | Successful registration | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
|  | | |
| **Steps:** |  |  |
| 1. Click on “Register new account” button | New account page is opened -Create new account. |  |
| 1. Fill the “First name” field with correct ${FIRSTNAME} | There is not any error message under the field. |  |
| 1. Fill the “Last name” field with correct ${LASTNAME} | There is not any error message under the field. |  |
| 1. Fill the “Email” field with ${EMAIL} | There is not any error message under the field. |  |
| 1. Fill the “Password” with ${PASSWORD} (Password must contain 8 characters, 1 lowercase character, 1 upper case character, and 1 digit) | There is not any error message under the field. |  |
| 1. Click on “Create account” button | There is an alert: Account created. Your account has been created, you can now login here. |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 003 | |
| **Title:** | Successful login | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Test user with ${EMAIL} and ${PASSWORD} exist: user firstName - ${FIRSTNAME} | | |
| User lastName - ${LASTAME} | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” | There is not any error message under the field. |  |
| 1. Fill the “Password” field with:   “${PASSWORD}” | There is not any error message under the field. |  |
| 1. Click on “LOGIN” button | You will be redirected on “Login Flow” page  Header: “Welcome ${FIRSTNAME} ${LASTAME}” is visible on the page |  |
|  | | |

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| --- | --- | --- |
| **ID:** | 004 | |
| **Title:** | Email field: email with only capital letters | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (email must contains only capital letters in Local-part) | There is not any error message under the field. | There is an error message “Invalid value” |
|  | | |

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| --- | --- | --- |
| **ID:** | 005 | |
| **Title:** | Email field: Maximum total length of Local part < 64 octets | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (email Local-part must be < 64 octets) | There is not any error message under the field. |  |
|  | | |

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| --- | --- | --- |
| **ID:** | 006 | |
| **Title:** | Email field: one letter local part | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (one letter local part) | There is not any error message under the field. |  |
|  | | |

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| --- | --- | --- |
| **ID:** | 007 | |
| **Title:** | Email field: lowercase and capital letters in local part | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (local part must contain capital and lowercase letters) | There is not any error message under the field. |  |
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| --- | --- | --- |
| **ID:** | 008 | |
| **Title:** | Email field: special symbols in local part | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (local part must contain printable characters   like : !#$%&'\*+-/=?^\_`{|}~) | There is not any error message under the field. |  |
|  | | |

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| --- | --- | --- |
| **ID:** | 009 | |
| **Title:** | Email field: top level domain in domain name | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “example@s.example” | There is not any error message under the field. |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 010 | |
| **Title:** | Email field: digits and dot in local part | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (email must contain dot and digit in the middle of local part) | There is not any error message under the field. |  |
|  | | |

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| --- | --- | --- |
| **ID:** | 011 | |
| **Title:** | Email contains Cyrillic symbols | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with city: “${EMAIL}” (email must contain Cyrillic symbols) | Error appears:  “No valid value provided” |  |
|  | | |

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| --- | --- | --- |
| **ID:** | 012 | |
| **Title:** | Email field: dot in the end of local part. | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (email Local-part must contain dot in the end ) | There is should be an error message under the “Email” field: “No valid value provided” | There is not any error message under the field. |
|  | | |

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| --- | --- | --- |
| **ID:** | 013 | |
| **Title:** | Email field: double dot in the middle of the local part | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “John..Doe@example.com” | There is should be an error message under the “Email” field: “No valid value provided” | There is not any error message under the field. |
|  | | |

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| --- | --- | --- |
| **ID:** | 014 | |
| **Title:** | Email field: dot in the beginning of local part. | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (email Local-part must contain dot in the beginning) | There is should be an error under the “Email” field. | There is not any error message under the field. |
|  | | |

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| --- | --- | --- |
| **ID:** | 015 | |
| **Title:** | Email field: only digits in local part | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (only digits ) | There is should be an error under the “Email” field. |  |
|  | | |

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| --- | --- | --- |
| **ID:** | 016 | |
| **Title:** | Email field: Maximum total length of Local part >64 octets | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (email Local-part must be >64 octets) | There is should be an error under the “Email” field. | There is not any error message under the field. |
|  | | |

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| --- | --- | --- |
| **ID:** | 0017 | |
| **Title:** | Email field: only special symbols in local part | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” (email local part must contain only special symbols) | There is should be an error under the “Email” field. |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 018 | |
| **Title:** | Empty “Email” field | |
|  |  | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Do not fill the “Email” field and press “Enter” | Error message appears:  “This field is required” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 019 | |
| **Title:** | Empty “Password” field | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Do not fill the “Password” field and press “Enter” | Error message appears:  “This field is required” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 020 | |
| **Title:** | Empty “First name” field | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Do not fill the “First name” field and press “Enter” | Error message appears:  “This field is required” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 021 | |
| **Title:** | Empty “Last name” field | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Do not fill the “Last name” field and press “Enter” | Error appears:  “This field is required” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 022 | |
| **Title:** | Short password with only lowercase letters | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill “Password ” field with “A1bFG”. | Error message appears: “Password must contain 8 characters, 1 lowercase character, 1 upper case character, and 1 digit” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 023 | |
| **Title:** | Password contains 8 symbols (without numbers) | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill “Password ” field with “Abcdefg@”. | Error message appears: “Password must contain 8 characters, 1 lowercase character, 1 upper case character, and 1 digit” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 024 | |
| **Title:** | Password contains 8 symbols (without capital letters) | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill “Password ” field with “a1bcdefg@”. | Error message appears: “Password must contain 8 characters, 1 lowercase character, 1 upper case character, and 1 digit” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 025 | |
| **Title:** | Password contains 8 symbols (without lowercase letters) | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill “Password ” field with “A1BCDEFG@”. | Error message appears: “Password must contain 8 characters, 1 lowercase character, 1 upper case character, and 1 digit” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 026 | |
| **Title:** | Password contains Cyrillic symbols | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill “Password ” field with - 8 Cyrillic symbols (at least 1 lowercase+ 1 capital letter +1 digit ) | Error message appears: “Password must contain 8 characters, 1 lowercase character, 1 upper case character, and 1 digit” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 027 | |
| **Title:** | “Show password” button check | |
| **Author:** | Ekaterina Pertseva | |
| **Change list** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Click on “Register new account” button | | |
| **Steps:** |  |  |
| 1. Fill “Password ” field | Obfuscated password is shown |  |
| 1. Click on “Show password” button | Not obfuscated password is shown |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 028 | |
| **Title:** | Login: wrong password | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Test user with ${EMAIL} and ${PASSWORD} exist: user firstName - ${FIRSTNAME} | | |
| User lastName - ${LASTAME} | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” | There is not any error message under the field. |  |
| 1. Fill the “Password” field with:   random wrong password | There is not any error message under the field. |  |
| 1. Click on “LOGIN” button | Error message appears:  “Wrong Credentials  You've entered a wrong email address and/or password”d |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 029 | |
| **Title:** | Login: empty “Password” field | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Test user with ${EMAIL} and ${PASSWORD} exist: user firstName - ${FIRSTNAME} | | |
| User lastName - ${LASTAME} | | |
| **Steps:** |  |  |
| 1. Fill the “Email” field with: “${EMAIL}” | There is not any error message under the field. |  |
| 1. Fill the “Password” field with:   random wrong password | There is not any error message under the field. |  |
| 1. Click on “LOGIN” button | Error message under “Password” field appears:  “This field is required” |  |
|  | | |

|  |  |  |
| --- | --- | --- |
| **ID:** | 030 | |
| **Title:** | Login: empty “Email” field | |
| **Author:** | Ekaterina Pertseva | |
| **Change list:** |  | |
| **Action** | **Expected result** | **Actual result** |
| **Precondition:** | | |
| Open: <https://ui-test-app.betty.app/login> page | | |
| Test user with ${EMAIL} and ${PASSWORD} exist: user firstName - ${FIRSTNAME} | | |
| User lastName - ${LASTAME} | | |
| **Steps:** |  |  |
| 1. Fill the “Password” field with:   "${PASSWORD}” | There is not any error message under the field. |  |
| 1. Click on “LOGIN” button | Error message under “Email” field appears:  “This field is required” |  |
|  | | |

**Bug report.**

|  |  |
| --- | --- |
| **Title:** | “Email” field accept local part of email longer than 64 characters. |
| **Description:** | Email with local pat longer than 64 characters is allowed. |
| **Project** | Betty Blocks |
| **Component** | Email field |
| **ID** | 1 |
| **Severity**   * S1 (Blocker) * S2 (Critical) * S3 (Major) * S4 (Minor) * S5 (Trivial) | **S3** |
| **Priority**   * P1 (High) * P2 (Medium) * P3 (Low) | **PO is responsible for Priority** |
| **Status** | New |
| **Author** | Ekaterina Pertseva |
| **Assignee** | developer |
| **Steps** | Fill the “Email” field with : email Local-part must be >64 characters |
| **Actual result** | There is not any error message |
| **Expected result** | Under “Email” field error message appears. |