Functional testing

**Verify parcel searching**

Smoke

**Task:** Test the parcel searching with the existing track number.

**Smoke Testing Procedure:** enter the existing tracking number in the ‘Track Number’ field on the main page. Click on the search button and verify the result page has opened.

**Task:** Test the parcel searching with the correct QR code.

**Smoke Testing Procedure:** click on the button with the photo icon in the parcel tracker field and give access to the device's camera and microphone. Scan the QR code with the correct track number and check that this number has auto-filled in the search field. Click on submit button and verify that the result page has opened.

1.1 Test parcel searching by existing track number:  
 <https://github.com/nromanen/pratical_testing_2022/issues/34>

1.2 Test parcel searching by not existing track number:

<https://github.com/nromanen/pratical_testing_2022/issues/35>

1.3 Test parcel searching with an empty ‘Track number’ field:

<https://github.com/nromanen/pratical_testing_2022/issues/45>

2.1 Test parcel searching by correct QR code:

<https://github.com/nromanen/pratical_testing_2022/issues/91>

**Verify parcel filter**

1.1 Test parcel filter by "Service":  
 <https://github.com/nromanen/pratical_testing_2022/issues/36>

1.2 Test parcel filter by "Status":

<https://github.com/nromanen/pratical_testing_2022/issues/33>

**Verify Registration**

1.1 Test registration with correct ‘email’, ‘password’, and ‘confirm password’ fields:  
 <https://github.com/nromanen/pratical_testing_2022/issues/24>

2.1 Test registration with ‘password’ field, that contains less than minimum characters:

<https://github.com/nromanen/pratical_testing_2022/issues/61>

2.2 Test registration with ‘password’ field, that contains more than maximum characters:

<https://github.com/nromanen/pratical_testing_2022/issues/62>

2.3 Test registration with invalid fields values:

<https://github.com/nromanen/pratical_testing_2022/issues/61>

<https://github.com/nromanen/pratical_testing_2022/issues/62>

<https://github.com/nromanen/pratical_testing_2022/issues/63>

<https://github.com/nromanen/pratical_testing_2022/issues/64>

<https://github.com/nromanen/pratical_testing_2022/issues/78>

<https://github.com/nromanen/pratical_testing_2022/issues/79>

<https://github.com/nromanen/pratical_testing_2022/issues/80>

<https://github.com/nromanen/pratical_testing_2022/issues/81>

<https://github.com/nromanen/pratical_testing_2022/issues/82>  
 <https://github.com/nromanen/pratical_testing_2022/issues/83>

**Verify Login**

1.1 Test login with correct ‘email’, ‘password’ fields:  
 <https://github.com/nromanen/pratical_testing_2022/issues/55>

2.1 Test login with correct ‘email’ and incorrect ‘password’ fields:

<https://github.com/nromanen/pratical_testing_2022/issues/76>

<https://github.com/nromanen/pratical_testing_2022/issues/73>

<https://github.com/nromanen/pratical_testing_2022/issues/69>

<https://github.com/nromanen/pratical_testing_2022/issues/68>

<https://github.com/nromanen/pratical_testing_2022/issues/67>

<https://github.com/nromanen/pratical_testing_2022/issues/60>

2.2 Test login with incorrect ‘email’ and correct ‘password’ fields:

<https://github.com/nromanen/pratical_testing_2022/issues/71>

<https://github.com/nromanen/pratical_testing_2022/issues/59>

3.1 Test login with data not registered in the system :

<https://github.com/nromanen/pratical_testing_2022/issues/53>

4.1 Test login with empty fields:

<https://github.com/nromanen/pratical_testing_2022/issues/49>

<https://github.com/nromanen/pratical_testing_2022/issues/39>

5.1 Test login with a Google account

5.2 Test login with a Facebook account

**Verify Password recovery**

1.1 Test password recovery with correct data:

<https://github.com/nromanen/pratical_testing_2022/issues/26>

2.1 Test password recovery with incorrect data:

<https://github.com/nromanen/pratical_testing_2022/issues/27>

<https://github.com/nromanen/pratical_testing_2022/issues/28>

<https://github.com/nromanen/pratical_testing_2022/issues/29>

**Verify profile data changing**

1.1 Test profile data changing with correct data:

<https://github.com/nromanen/pratical_testing_2022/issues/30>

2.1 Test profile data changing with incorrect data:

<https://github.com/nromanen/pratical_testing_2022/issues/31>

<https://github.com/nromanen/pratical_testing_2022/issues/32>  
 <https://github.com/nromanen/pratical_testing_2022/issues/72>

Non-functional testing

**Performance testing**

**Task:** The server should respond in less than 2 sec when up to 100 users access it concurrently. The server should respond in less than 5 sec when up to 300 users access it concurrently.

**Performance Testing Procedure:** check the response time of the server with 100 and 300 users simultaneously.

**Load testing**

**Task:** The server should allow up to 300 concurrent connections.

**Load Testing Procedure:** emulate different amounts of requests to server close to pick value, for instance, measure time for 200, 250, and 300 concurrent users. Verify that the server can respond correctly to the maximum number of users.

**Stress testing**

**Task:** The server should allow up to 500 concurrent connections.

**Stress Testing Procedure**: emulate the number of requests to the server greater than the pick value, for instance, check system behavior for 501, 510, and 550 concurrent users. Verify that ‘500+’ users get an appropriate error message from the server. (e.g. ‘*an error occurred, please try again later’*) The server should not crash due to overload.

**Localization testing**

**Task:** Verify the site is translated into English.

**Localization Testing Procedure:** test that the site is translated into English:

1. main menu items
2. home page
3. search result page
4. login page (also buttons, placeholders, system messages)
5. sign up page (also buttons, placeholders, system messages)
6. reset password page (also buttons, placeholders, system messages)