**Trackster app Test Types**

1. **FUNCTIONAL TESTING**

**Verify “REGISTRATION (SIGN UP)” functionality 1.1**

**Smoke:** Quick checking the Registration (Sign Up) features (entering text, push Sign Up button, Email editing)

Navigate to Sign Up. In the “Email” field enter the email address of unregistered user. In the “Password” field entering password. In the “Confirm password” field reentering password. Click “Sign Up” button. If success go to the next app department. If not – error message appears.

1. Verify that Email, Password, Confirm password fields have a valid placeholder
2. Verify that entering blank spaces on fields lead to error
3. Verify the case sensitivity of Email (that it works both ways – all Caps and small letters confirmed)
4. Verify that the character limit of password based on requirement
5. Verify the validation of email field by entering incorrect email id
6. Verify whether the password and confirm password are same or not

**Verify “Parcel search by Track number on the Main app department” functionality 1.2**

**Smoke:** Quick checking the Track number Search features (entering Track number, push Search button, edit number)

Navigate to the Main. In the Track number field enter the Valid Parcel’s track number as registered or not registered user and click Search button. If success go to the Parcel’s details status. If not – “Nothing found” message appears.

1. Verify that Track number field has valid placeholder
2. Verify that entering blank space in field leads to “Nothing found” message
3. Verify that entering valid track number shows current Track number information
4. Verify that entering invalid Parcel’s Track number in field leads to “Nothing found” message
5. Verify that Status Parcel’s page has Post company information and Details button

**Verify “My Parcels” functionality 1.3**

**Smoke:** Quick checking the Track number Search features and filter option (entering Track number, push Search button, edit number). Checking if the Parcel’s list is shown in My Parcels.

Navigate to the My Parcels. Click Main menu button and going to My Parcels. If success registered user see Parcels history list. If not – “Nothing found” message appears.

1. Verify that My Parcels contains a list of parcels in case User have the Parcels history already
2. Verify that Track number field has valid placeholder
3. Verify that entering blank space in field leads to “Nothing found” message
4. Verify that entering invalid Parcel’s Track number in field leads to “Nothing found” message
5. Verify that entering valid track number shows current Track number information
6. Verify that More details button opening detailed Post company information about the parcel’s status
7. Verify that Status Parcel’s page has Post company information and Details button

**Verify “Log In” functionality 1.4**

**Smoke:** Quick checking the Log In features (entering data, push Log In button, Email editing, Push Google and Facebook Log In buttons)

Navigate to the Log In. Click Main menu button and going to Log In.

* In the “Email” field enter the email address of registered user. In the “Password” field entering password. Click “Log In” button.
* “Log In with Google” and “Log In with Facebook”. Redirecting to the Google accounts Log In page and Facebook Log In page.

If success go to the next app department. If not – error message appears.

1. Verify that Email and Password fields have a valid placeholder
2. Verify that entering blank spaces on fields lead to error
3. Verify the case sensitivity of Email (that it works both ways – all Caps and small letters confirmed)
4. Verify that the character limit of password based on requirement
5. Verify the validation of email field by entering incorrect email id
6. Verify the validation of password by entering invalid password id
7. Verify that “Log In with Google” redirects to the Google email accounts page
8. Verify that “Log In with Facebook” redirect to the Facebook Log In Page
9. Verify that main page is loading after successful Login In

**Verify “Settings” functionality 1.5**

**Smoke:** Quick checking the Settings features (entering data, push Update button, Phone and password editing, Push Change password button)

Navigate to the Settings. Checking functionality of changing Registered User personal details. In the “Phone” field entering new phone number. In the Current Password field entering User’s password. In the New Password field entering new password and in the Confirm password reentering new password to confirm it. If success system updated password and phone number. If not – error message appears.

1. Verify that Email, Phone, Password, New Password and Confirm password fields have a valid placeholder
2. Verify that entering blank spaces on fields lead to error
3. Verify that the character limit of password based on requirement
4. Verify that the Email field is locked and can’t be changed
5. Verify the validation of password by entering invalid password id
6. Verify that the character limit of password based on requirement
7. Verify whether the password and confirm password are same or not

**Verify “Reset password” functionality 1.6**

**Smoke:** Quick checking the “Reset password” features (Check Forgot password button, receiving email)

Navigate to the Reset password. Checking functionality of changing User password. In the “Email” field entering valid email address. Receiving System message “If we find a user with this email address, we will send a password reset mail”. If success system sending password changing link on email.

1. Verify that Email field has a valid placeholder
2. Verify that the character limit of email field based on requirement
3. Verify that entering blank spaces on field lead to “Email is required” message
4. Verify the validation of email by entering invalid email id. System shows “Email is invalid” message

# Verify “Search by QR code” functionality 1.7

**Smoke:** Quick checking the “Search by QR code” features (Click Photo icon button, allow camera on)

Navigate to the Main. Checking functionality of Search by QR Photo. Click “Photo icon” button. Giving access to the device camera. Checking if camera is on. If success system founds Track number by scanning QR code. If no – “Nothing found” message receiving.

1. Verify that the camera is working properly and makes scan by OQ code

# Verify “Log Out” functionality 1.8

**Smoke:** Quick checking the “Log Out” features (Click Photo icon button, allow camera on)

Click Main menu button. Checking functionality of Log Out. Click “Log Out” button. If success system leads to the Main app department.

1. Verify that the “Log Out” button leads to Log Out feature and Main is opens.

**Verify “Parcel’s filter” functionality 1.9**

**Smoke:** Quick checking the “Parcel’s filter” features (Click “Filter” button, changing filter status)

Opening My Parcels. Checking functionality of Parcel’s filter. Click “Filter” button. Setting Status (e.g. Received, Not Received, ordered by Date, etc) If success system shows me categorized Parcels list. If no – Nothing changed.

1. Verify that the “Filter” button allow to change status of the parcels list. And system shows the parcels list which user was looking for.
2. **NON-FUNCTIONAL TESTING**
3. Verify that ‘tab’ button in Trackster is working properly or not
4. Verify if the enter button works as Submit button

System have to give access to server up to 200 users in one time.

**Performance:** Verify that systems meats Performance requirement. Requirement: server have to respond in 2 seconds max.

Verify that all system answers (e.g. Receiving notification about successful User registration in a 2 seconds max, camera is on after user’s confirmation, My Parcels list loading, etc.) appear during 2 seconds.

**Load:** Emulate different amount of requests to server close to pick value, measure time for 150, 200 concurrent users. Verify that the server is able to respond correctly with the maximum number of users. Defect – if Server returns “Request Time Out” starting from 195 concurrent requests.

**Stress:** Check the ability of the system to take an advantage to accept 200+ Users using app. Emulate amount of requests to server greater than pick value, for instance, check system behavior for 230, 250 and 300 users. Verify that `200+` users get appropriate error message from server. (e.g. `*an error occurred, please try again later*`) The server should not crash due to overload.

Verify if the system makes automatically User Log Out in case of some interruptions.

**UI:** Check if UI of Trackster comply with design recommendations. If it answers the requirements on different devices with different sizes of screen. If the text is readable and nothing cut. Verify that all departments contain Language switch button.

**Localization:** Verify how the system works after the changing the language. Test all buttons and captions in all app departments whether they are translated to English (Ukrainian); appearance of different messages (e.g.: Profile updated, Nothing found, etc.) to check whether they are localized and not truncated

**Compability:** Verify that all Trackster app departments work correctly on different OS (e.g. macOS, Windows) browsers, device configurations.

**REGISTRATION (SIGN UP) 2.1**

**Security:** Verify that the Password and Confirm Password is secured by asterisks.

**UI:** Verify that the Registration form contains “Email”, “Password”, “Confirm Password” placeholders, Sign Up button, Login with Google and Login with Facebook buttons, Login In (If user already has an account.

**Parcel search by Track number 2.2**

**UI:** Verify that Main contains Track number placeholder, Search button, “Search by OQ Photo” icon button, “Main menu” button, Our Partners information.

**My Parcels 2.3**

**UI:** Verify that My Parcels contains Track number placeholder, Search, Filter and “More details” buttons.

**Log In 2.4**

**Security:** Verify that the password is secured by asterisks.

**UI:** Verify that Log In contains email, Password placeholders, Log In, Login with Google and Login with Facebook buttons. In case user does not have an account – Sign Up button

**Settings 2.5**

**Security:** Verify that the password fields are in encrypted forms when entered and are secured. Verify if the system makes automatically User Log Out in case of some interruptions.

**UI:** Verify that the Settings contains “Email” information, “Phone”, “Password”, “New Password” and “Confirm Password” placeholders, Update Profile and Change Password buttons. In case user does not remember password – “I forgot my password” button

**Reset-password 2.6**

**UI:** Verify that the Reset Password contains “Email” placeholder, “Send Link” and “Back to Log In” Buttons, [Sign Up](https://ttrackster.herokuapp.com/signup) button in case User do not have an account.

# “Search by QR code” 2.7

**UI:** Verify that the Search by QR code contains “Photo icon” button, “Track number” placeholder, Camera window, Our Partners information.

# “Log Out” 2.8

**UI:** Verify that Log Out feature available in the left Main menu List.

**“Parcel’s filter” 2.9**

**UI:** Verify that “Parcel’s filter” button is available on the right side My Parcels department.

**“Privacy Policy” 2.10**

**UI:** Verify that Privacy policy contains “Text information” according to the requirements.

1. **Confirmation and regression testing**