Task-1

1. **As a tester, you're assigned to test Sign Up / Log In flow on WeTravel platform (https://www.wetravel.com). Please list out all the possibilities after careful review.**

After my personal investigation, I found that the WeTravel platform has the next Sign Up / Log In flow.
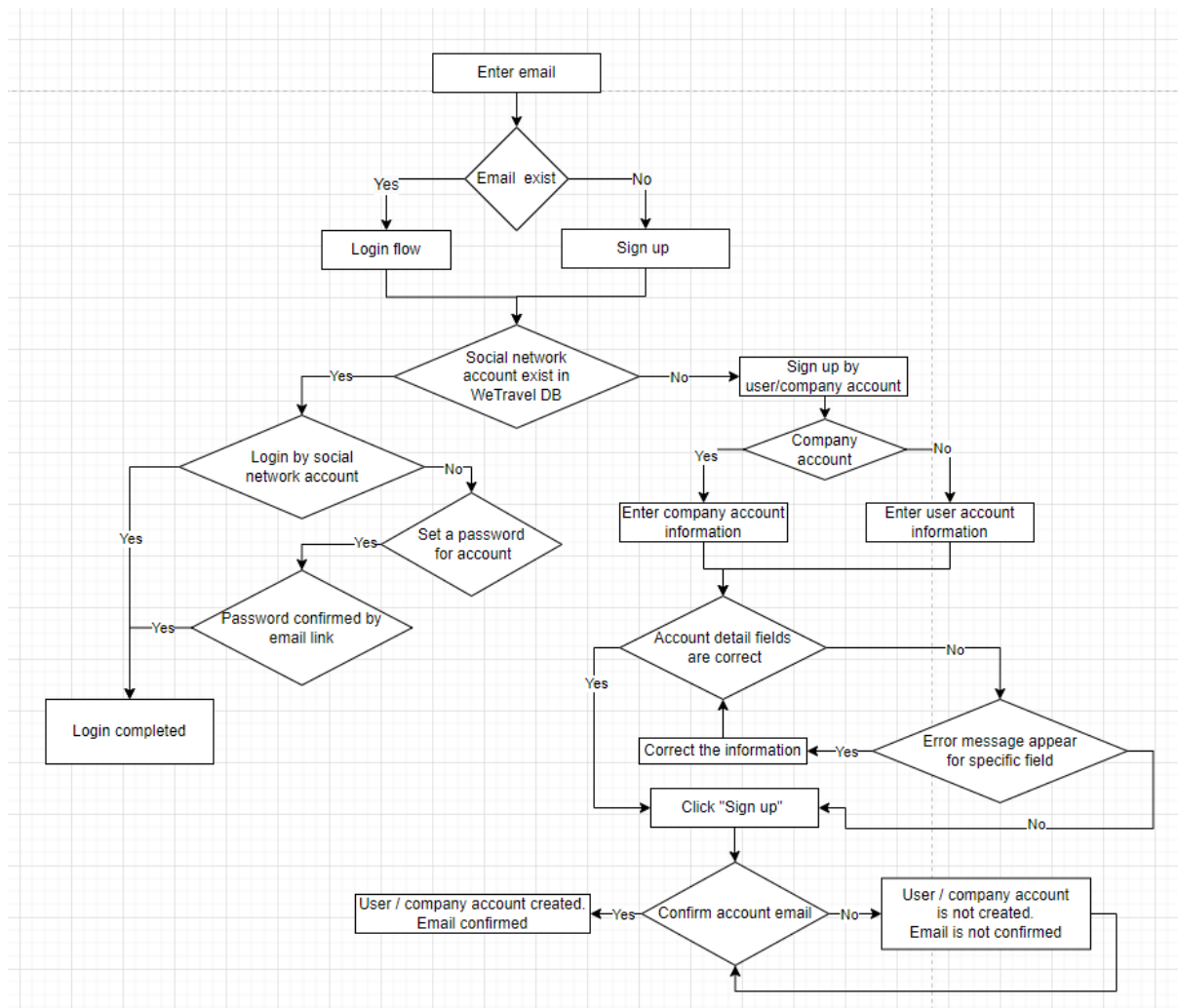
Based on created diagramm I discovered different test scenarios and then create a list of test cases based on them.

Below is a list of tests that I would like to use with a high priority during app relises and regression testing. Also an additional test that can be written based on approved approach for the QA team. They can have medium or low priority for the test runs.

I add some notes for test cases and want to say that I skipped some descriptions, expected results and my TC looks not so perfect as described in the ISTQB documentation. I agree that they should have more precised description but I decided describe my point of view and focus on specific parts or elements that will show how and why I will work with test documentation in this way.

In case when we are talking about end-to-end tests I ignored minore actions and did not describe or maybe missed some important things that I did not understand properly during emu exploratory testing .

Below is a list of end-to-end scenatrio for checking **SignUp flow**.

1. **SignUp flow for users with an email address.**
   a. **Valid SignUp flow.**
      The user fills all fields on the SignUp form, using valid data, provides a valid password that will correspond to described security requirements, and accept and confirm the account by the activation link that will be sent to the user email box.
      More information regarding the tests you will find in table of test cases abow.
   b. **Invalid SignUp flow.**
      The user will not fill all fields on the SignUp form, or skip something or using invalid data, or an invalid password that will not correspond to security requirements or confirm the account by the activation link that will be sent.
      More information regarding the tests you will find in table of test cases abow.

NOTE

I expected that the activation link user will receive only when the SignUp form will be filled out properly and the app will be sent the request for account creation to the email that was used for account creation.

2. **SignUp flow for users with a social network account (existing accounts).**
   a. **Valid SignUp flow.**
      The user selects a social network account (existing accounts) on the SignUp form, then confirms the access to the social network account data.

      Note -1.
      I expected that 3rd party services granting access to the WeTravel app, then redirects the user to the WeTravel app home page or whatever) More information regarding the tests you will find

   b. **Invalid SignUp flow.**
      The user selects a social network account (existing accounts) on the

SignUp form, then terminates the registration process, and will not complete the required actions for WeTravel account creation.
More information regarding the tests you will find in table - 2.

1. If a user has an account he/she should complete the authentication procedure by providing a user login and password. It should work when user account created without any available social network identification options. If a user was created by social network options

Test case name	Kind of flow	TC index	TC steps	Comments
User registered new **user account** with valid data by email.	SignUp (by email)	TC-1	1. Enter valid email (email should not exist in the WeTravel DB) on the SignUp / Login form. 2. Click "Next" button 3. Don't check up the "Company account" checkbox 4. Enter valid user details and password 5. Click "SignUp" button 6. Confirm account creation by email link 7. Login by used email and provided password.	This TC is posible to replicate and create several different test cases with more precised actions when user can cancel some actions like declining the activation email link. Some TCs I added below, some is possible to discuss with the team and implement more specific test scenario..
User registered new **company account** with	SignUp (by email)	TC-2	1. Enter valid email (email should not be exist in the WeTravel DB)	

valid data by email.			on the SignUp / Login form. 2. Click "Next" button 3. Check up the "Company account" checkbox 4. Enter valid company details and password 5. Click "SignUp" button 6. Confirm account creation by email link 7. Login by used email and provided password.	
User registered new **user account** with invalid data by email.	SignUp (by email)	TC-3	1. Enter valid email (email should not be exist in the WeTravel DB) on the SignUp / Login form. 2. Click "Next" button 3. Don't check up the "Company account" checkbox 4. Enter **invalid** user account details, names and password 5. Click "SignUp" button 6. Check that web form is showing error notifications 7. Login by used email and provided password and be sure that user was not	This TC is possible also split on few different TC that will check specific error gathering via entering invalid data. Here is possible to use different test technicks for checking behavior of the fields, e.g. boundary value analyses and equivalent partitioning. **Note.** 7th step I added for this test because the web app simultaneously can send and save user credentials and will alow to create an account.

			logged to the platform	When this action happens we will have a system bug.
User registered new **company account** with invalid data by email.	SignUp (by email)	TC-4	1. Enter valid email (email should not be exist in the WeTravel DB) on the SignUp / Login form. 2. Click "Next" button 3. Check up the "Company account" checkbox 4. Enter invalid account details, names and password 5. Click "SignUp" button 6. Check that web form is showing error notifications 7. Login by used email and provided password and be sure that user was not logged to the platform	
User declined email confirmation after registering new **user account**	SignUp (by email)	TC-5	1. Enter valid email (email should not be exist in the WeTravel DB) on the SignUp / Login form. 2. Click "Next" button 3. Don't check up the "Company account" checkbox 4. Enter valid	

			useer details, names and password 5. Click "SignUp" button 6. Do not confirm email registration. Do not confirm account creation email 7. Login by used email and provided password and be sure that user was not logged to the platform	
User declined email confirmation after registering new **company account**	SignUp (by email)	TC-6	1. Enter valid email (email should not be exist in the WeTravel DB) on the SignUp / Login form. 2. Click "Next" button 3. Check up the "Company account" checkbox 4. Enter valid company details, names and password 5. Click "SignUp" button 6. Do not confirm email registration. Do not confirm account creation email 7. Login by used email and provided password and be sure that user was not logged to the	

				platform	
User registered new **user account** by social network account.	SignUp (by social network account)	TC-7	1. Enter valid email (email should not be exist in the WeTravel DB) on the SignUp / Login form. 2. Click "Next" button 3. Don't check up the "Company account" checkbox 4. Click "Facebook" button and grant the access for the WeTravel web app. 5. Logout from the platform. 6. Login using the same option. 7. Repeat steps 4-6 using LinkedIn and Google options	In case when user has linked email with social network account this TC should be cloned and edited according to existing SignUp/Login flow of the web app. Also can be possible to create additional TC when user registered WeTravel account directly on the Welcome popup. Auth flow for the 3d party services can be tested independently also, and it's a source for the additional TC. I found that Google auth option was integrated with some issues. Please check the "Descovered issues" section. Some TC I added below, some is possible to discuss with the team and implement more specific tests as well later.	
User completed the reset of password for existing **user**	SignUp (by email)	TC-8	1. Enter valid email (email should exist in the WeTravel DB) on the	In case when "Reset password" feature should be tested independently	

account / **company account**				SignUp / Login form. 2. Click "Next" button 3. Click on the "Forgot password" link. 4. Complete actions for resetting the password that described in the received email. 5. Login by new credentials. 6. Repeat steps 1-5 for company account	and more deeply this TC can be used as a reference and all steps for resetting the password should be defined as unique steps for the verification.
Login on the platform by existing(not blocked) user / company account		TC-9	TBD		Login tests for the user or company accounts should test the flow when user is using valid creadentails for log in on the platform and logged out from it. Those tests can be a part of test cases that created for Sing in flow or created as indepenteed flow.
Log out /Sign out tests		TC-10			I did not write any tests for teh log / sign out on the platform. Those tests will check the behavior of the web site when user would like to logging /signing out from the

				platform and can be added as an additional steps for the test cases from this list

Here is short description that can help to understand what exactly I was trying to test and what should be tested more deeper.

2. More detailed testing expect to test the SignUp form, all fields on it and all related features that involved in the process of account creation, e.g. "Forgot password" , "Set a password for your account", account activation by email link, etc.
3. I found that web app has several text fields and logic for filling the password form. In this case I can implement approach for creating table with test data for using it during testing this form independently, as part of security testing as well.

Task-2

2. We are asking your opinion for what kind of testing you will recommend for Sign Up / Log In flow on WeTravel platform. Please provide the list of various testing types which you will recommend and justify them. Explain with examples about why did you pick those testing types?

First of all, I would like to note that when I start to test the WeTravel platform I'm using a basic approach, when the tester has no requirements or it's not completed yet.

I will divide all my tests into two groups, functional and non-functional.

For each approach, I will use different browsers, e.g. Chrome, Firefox, Safari, devices: mobile phones, tablets, and laptops that are launched on different OS, e.g. windows, macOS, Android and iOS (for mobile testing).

If I have no limits and comprehensive documentation for testing I will start from functional testing of the platform using a defined list of devices.

Below you will find the list of test types and short description that I would like to implement.

1. **Functional tests**. Please check the list of test cases in the section -1
2. **End-to-end tests**. Please check the list of test cases in the section -1
3. **Integration tests**. Here is possible to test the platform integration with 3rd party services, e.g. Google or Facebook. Please check the related section below.
4. **UI / UX testing**. Please check the related section below.
5. **Accessibility testing**. Please check the related section below.

6. **Security testing**. Please check the related section below.
7. **Performance testing**. Please check the related section below.

UI / UX testing

Checking the web site components, UI, navigation elements, controls, etc on different devices, browsers, OS's, screen resolutions and screen orientaions. Here is possible use different test technics and approaches.

Pairwise testing - for checking app behavior on different browsers, OS's, devices and implement these test using any available resources. Executing this test manually or using online services.

Decision table testing - for checking behavior of the forms.

Crossbrowser testing - for checking behavior of the Sign Up / Log In flow in different browsers.

Main scenarios for UI / UX tests

1. Verify that Sign Up / Log In page opens.
2. Verify that all UI elements and components are rendered without any glitches or visual artifacts. Check and compare the behavior on accepted devices. All devices are showing the same design and all elements work as designed during testing Sign Up / Log In flows.
3. Verify that the user can use navigation options that are available the for current device.
4. There is possible to navigate or access the different controls by pressing the 'Tab' key on the keyboard.
5. Check if the password is in masked form when typed in the password field.
6. Show / hide button is working (This option is not available on the web site)
7. Web app behavior when username and/or password are invalid.
8. Copy-pasting option for the password should not work or work, if it was approved.
9. Verify that the user is able to login by entering valid credentials and clicking on the "Sign in" or "Login with…" button.
10. Validation message (error notifications) are displaying for all mandatory fields. It should work for all mandatory fields. For some reason they are not marked as mandatory (asterisk are missing)
11. Check that the validation message is displayed when user user exceeds the character limit of the characters. Right now WeTravel forms have no limits. It can confuse a little when you are entering long password, for instance, and can't handle how many symbols you are wenterec already.
12. Verify if there is a checkbox with the label "Keep me logged in" on the Welcome page (SignUp flow).

13. Checking that closing the browser should not log-out an authenticated user. Launching the application should lead the user to login state only.

Accessibility testing

Web site should be tested for accessing for the people with disabilitiesMain focus should be done WCAG documentation.
- Checking the web site behavior using any available accessibility online services
- Complete basic accessibility testing by manual testing the SignUp / Login form
    - check color contrast
    - check keyboard friendly behavior (not only TAB button)
    - zoom opton without missing the context
    - voice assistance. Ability to "read" the web site content. Using the screen readers for more siple testing
    -

Security Test Cases for SignUp / Login Page

1. Check the login session timeout
2. Limit on the total number of unsuccessful login attempts
3. Check that web app shows incorrect credentials message
4. Check XSS vulnerability vectors

There is possible to use Postman for playing with an API request, Fiddler (Charles) for intersepting API request manualy or OWASP ZAP for more precised actions in automation mode.

Performance test cases for SignUp / Login Page

1. Create a script for sending multiple SignUp / Login requests simultaneously. There is possible to use any available services or apps. E.g. jMeter, K6 or somethign else.
2. Checking the web app behavior by interrupting/ blocking API request can show weak places of the web app. Connection throttling is also very productive in this case. I found that web app does not handly blocked api requests and did not show any service notifications.
3. Measuring the authentication time for SignUp / Login (Sign out / Log out) fllows.
4. Checking SignUp / Login (Sign out / Log out) app behavior from different locations. In some cases app can work very slowly in one location and without any delays for another. For this I will use any available online services like VPN or

any cloud solutions , like a deployed virtual machines on servers that are located in diferents countries.

Regarding to test techniques I will use several reliable approaches for decreasing amount of tests and volume of test data. It should be

- "Decision table testing",
- "Boundary values testing" - testing the behavior of web forms using set of defined values and decrease amount of tests.
- "Pairwise testing" . It can help to check the web form mixing the filing different fields in different orders that can help decrease amount of tests.
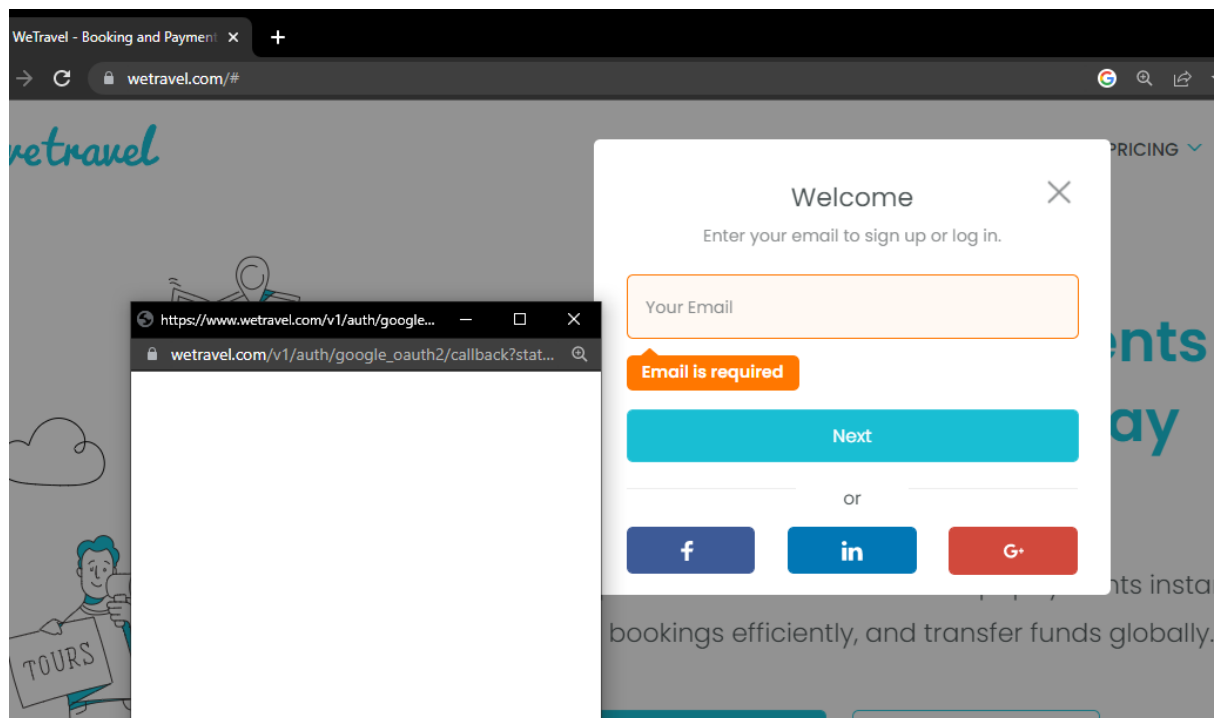
Discovered issues

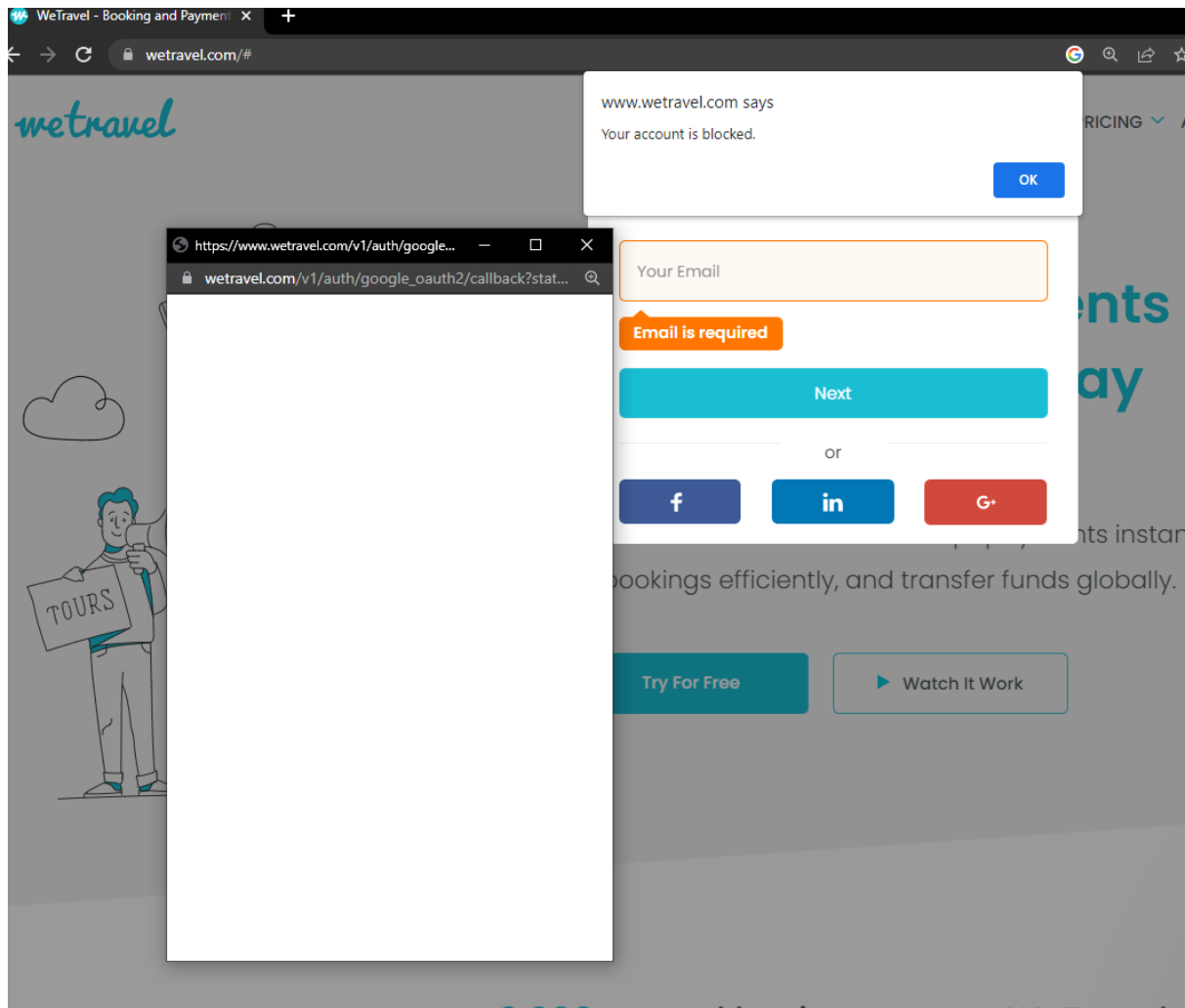## Google SignUp. Your account is blocked popup is hidden

After choosing the sign in option - Google, the user can't see 'Your account blocked' popup on the same browser page.
For viewing the popup user should change the focus on different web page.
Browser - Chrome
OS: MacOs v12.6

Account is blocked after completed the process of resetting password for the user account

When I created new user account via Sign up form and decided to reset password via "forgot password" link I discovered that after successful actions my account was blocked.

I assume that it can kbe related to the issues on DB level because if service side can't handle reset request properly or reset link was not stored properly or auth key was missing it can make some magic and user account can be blocked.

Below is a picture that I was seeing during my test.

wetravel.com/#

Welcome back

Please enter your password to log in.

Your Email
████████a@gmail.com

Password
••••••••

Your account is blocked.

☐ Keep me logged in

Log In

Forgot password?

pa for

3,000+ companies trust WeTravel to accept
payments instantly, manage bookings efficiently