TEST CASES

QA Practical Challenge

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Here is a full list of all the manual tests written by Michael Winton for the Celo QA Practical Challenge. Some of these tests where automated and covered in the Selenium tests.

1 Login Page

1.1 Log In Successfully: Log In Button

Test_Case_ID: TC_Login_Success_01_Log_In_Button

Title: Login Page – Log In Successfully: Log In Button

Description: A registered user should be able to successfully login with valid details

Type: Positive

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button

Expected Result: Redirected to 'Set Up Pin Number' Page. URL:
https://stagingapp.celohealth.com/pin?returnUrl=%2Fconversations

1.2 Log In Successfully: Email Focused Enter

Test_Case_ID: Login_Success_02_Email_Focused_Enter

Title: Login Page – Log In Successfully: Email Focused Enter

Description: A registered user should be able to login by pressing Enter while focused on any form element such as email input

Type: Positive

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used.

Test Data:
Email: 'qa.candidate+01@celohealth.com'

Password: '3tQp+,/Q'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'password' field, enter the password of the registered user
4. In the 'email' field, enter the email address of the registered user
5. Press Enter key

Expected Result: Redirected to 'Set Up Pin Number' Page. URL:
https://stagingapp.celohealth.com/pin?returnUrl=%2Fconversations

1.3 Log In Successfully: Password Focused Enter

Test_Case_ID: Login_Success_03_Password_Focused_Enter

Title: Login Page – Log In Successfully: Password Focused Enter

Description: A registered user should be able to login by pressing Enter while focused on any form element such as password input

Type: Positive

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Press Enter key

1.4 Log In Failure: Unfocused Enter

Test_Case_ID: Login_Failure_01_Unfocused_Enter

Title: Login Page – Log In Unfocused Enter

Description: A registered user should not be redirected after entering valid details and pressing enter unless focused on email input, password input, or password button

Type: Negative

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Press Enter key

Expected Result: Remain on login page, no state change

1.5 Log In Failure: Invalid Email

Test_Case_ID: Login_Failure_02_Invalid_Email

Title: Login Page – Log In Failure: Invalid Email

Description: A user should be prompted with an alert message when attepmting to login with a invalid email, but valid password

Type: Negative

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used.

Test Data:
Invalid Email: 'qa.candidate+01@SELOhealth.com'
Password: '3tQp+,/Q'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter an invalid email address similar to the email of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button

Expected Result: Log In page returns with an alert stating 'Incorrect username and/or password. Please re-enter.' Password field is cleared.

1.6 Log In Failure: Invalid Password

Test_Case_ID: Login_Failure_03_Invalid_Password

Title: Login Page – Log In Failure: Invalid Password

Description: A user should be prompted with an alert message when attepmting to login with an invalid password, but valid email

Type: Negative

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Invalid Password: 'invalidPassword'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter an invalid password
5. Click 'Log In' button

Expected Result: Log In page returns with an alert stating 'Incorrect username and/or password. Please re-enter.'

1.7 Log In Failure: Empty Email

Test_Case_ID: Login_Failure_04_Empty_Email

Title: Login Page – Log In Failure: Empty Email

Description: A user should be prompted with an alert message when attepmting to login with an empty email

Type: Negative

Precondition:

Assumption: A supported browser is being used.

Test Data:
Password: '3tQp+,/Q'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'Password' field, enter the password of the registered user
4. Click 'Log In' button

Expected Result: Log In page returns with an alert stating 'The Username field is required.' Password field is cleared.

1.8 Log In Failure: Empty Password

Test_Case_ID: Login_Failure_05_Empty_Password

Title: Login Page – Log In Failure: Empty Password

Description: A user should be prompted with an alert message when attepmting to login with an empty password

Type: Negative

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used.

Test Data:
Email: 'qa.candidate+01@celohealth.com'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. Click 'Log In' button

Expected Result: Log In page returns with an alert stating 'The Password field is required.'

1.9 Log In Failure: Empty Email And Password

Test_Case_ID: Login_Failure_06_Empty_Email_And_Password

Title: Login Page – Log In Failure: Empty Email And Password

Description: A user should be prompted with an alert message when attepmting to login with an empty email and password

Type: Negative

Precondition:

Assumption: A supported browser is being used.

Test Data:

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. Click 'Log In' button

Expected Result: Log In page returns with an alert stating 'The Username field is required. The Password field is required.'

1.10 Log In Failure: Exceed Password Failure Attempts

Test_Case_ID: Login_Failure_07_Exceed_Password_Failure_Attempts

Title: Login Page – Log In Failure: Exceed Password Failure Attempts

Description: A user should be prompted with an alert message when attepmting to login with an invalid password too many times

Type: Negative

Precondition:

Assumption: A supported browser is being used.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Invalid Password: 'invalidPassword'
Number of attepmts (noa): 10

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. While number of attempts is less than noa, repeat steps 4-6
4. In the 'email' field, enter the email address of the registered user
5. In the 'Password' field, enter an invalid password
6. Click 'Log In' button

Expected Result: Log In page returns with an alert stating 'Your account is locked. Please re-set your password'. Password field is cleared.

2 Set Up Pin Page

2.1 Set Pin Successfully: Submit Button

Test_Case_ID: Set_Pin_Success_01_Next_Button

Title: Set Pin Page – Set Pin Successfully: Submit Button

Description: A registered user should be able to successfully set a pin with a valid Pin Code combination and clicking Next

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 1212
Pin Code Confirm: 1212

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.2 Set Pin Successfully: Pin Code Focused Enter

Test_Case_ID: Set_Pin_Success_02_Pin_Focused_Enter

Title: Set Pin Page – Set Pin Successfully: Pin Code Focused Enter

Description: A registered user should be able to successfully set a pin by pressing Enter while focused on any form element, such as the Pin Code input field.

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must be valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 1212
Pin Code Confirm: 1212

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code Confirm' field, enter the Pin Code
7. In the 'Pin Code' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.3 Set Pin Successfully: Confirm Focused Enter

Test_Case_ID: Set_Pin_Success_03_Confirm_Focused_Enter

Title: Set Pin Page – Set Pin Successfully: Confirm Focused Enter

Description: A registered user should be able to successfully set a pin by pressing Enter while focused on any form element, such as the Confirm Pin input field.

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must be valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 1212
Pin Code Confirm: 1212

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.4 Set Pin Successfully: Pin Code Using Numbers

Test_Case_ID: Set_Pin_Success_04_Numbers

Title: Set Pin Page – Set Pin Successfully: Pin Code Using Numbers

Description: A registered user should be able to successfully set a pin that uses number characters

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must use only numbers. Pin must be valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'

Password: '3tQp+,/Q'
Pin Code: 1212
Pin Code Confirm: 1212

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.5 Set Pin Successfully: Pin Code Using Letters

Test_Case_ID: Set_Pin_Success_05_Letters

Title: Set Pin Page – Set Pin Successfully: Pin Code Using Letters

Description: A registered user should be able to successfully set a pin that uses letter characters

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must use only letters. Pin must be valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: word
Pin Code Confirm: word

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.6 Set Pin Successfully: Pin Code Using Special Characters

Test_Case_ID: Set_Pin_Success_06_Special_Characters

Title: Set Pin Page – Set Pin Successfully: Pin Code Using Special Characters

Description: A registered user should be able to successfully set a pin that uses Special Characters

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must use only special characters. Pin must be valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: !@#$
Pin Code Confirm: !@#$

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.7 Set Pin Successfully: Pin Code Using A Combination Of Character Types

Test_Case_ID: Set_Pin_Success_07_Combination_Characters

Title: Set Pin Page – Set Pin Successfully: Pin Code Using A Combination Of Character Types

Description: A registered user should be able to successfully set a pin that uses a combination of character types

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must use only special characters. Pin must be valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:

Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: q@34
Pin Code Confirm: q@34

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.8 Set Pin Successfully: Oversized Pin

Test_Case_ID: Set_Pin_Success_08_Oversized_Pin

Title: Set Pin Page – Set Pin Successfully: Oversized Pin

Description: A registered user should fail to input a pin that has more than 4 characters but still successfully set the first four charaters of what was typed.

Type: Positive

Precondition: The user must already be registered with an email address and password. Letters used must be the same in a different casing

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 1qwer
Pin Code Confirm: 1qwer

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Pin Code fields only retain the first four characters. Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

2.9 Set Pin Failure: Pin Code Repeating A Single Number Character

Test_Case_ID: Set_Pin_Failure_01_Repetitive_Number

Title: Set Pin Page – Set Pin Failure: Pin Code Repeating A Single Number Character

Description: A registered user should fail to set a pin that uses a only one character, number

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must use only one number.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 1111
Pin Code Confirm: 1111

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Error pop-up returns with an alert stating 'Error. Repetitive PIN is too weak, please pick a stronger PIN'

2.10 Set Pin Failure: Pin Code Repeating A Single Letter Character

Test_Case_ID: Set_Pin_Failure_02_Repetitive_Letter

Title: Set Pin Page – Set Pin Failure: Pin Code Repeating A Single Letter Character

Description: A registered user should fail to set a pin that uses a only one character, letter

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must use only one letter.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'

Password: '3tQp+,/Q'
Pin Code: qqqq
Pin Code Confirm: qqqq

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Error pop-up returns with an alert stating 'Error. Repetitive PIN is too weak, please pick a stronger PIN'

2.11 Set Pin Failure: Pin Code Repeating A Single Special Character

Test_Case_ID: Set_Pin_Failure_03_Repetitive_Special_Character

Title: Set Pin Page – Set Pin Failure: Pin Code Repeating A Single Special Character

Description: A registered user should fail to set a pin that uses a only one character, special character

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin must use only one special character.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: !!!!
Pin Code Confirm: !!!!

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Error pop-up returns with an alert stating 'Error. Repetitive PIN is too weak, please pick a stronger PIN'

2.12 Set Pin Failure: Pin Code Weak Pin

Test_Case_ID: Set_Pin_Failure_04_Weak_Pin_Asending
Title: Set Pin Page – Set Pin Failure: Pin Code Weak Pin

Description: A registered user should fail to set a pin that uses 1234 in consecutive asending order

Type: Positive

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 1234
Pin Code Confirm: 1234

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Error pop-up returns with an alert stating 'PIN Error. Celo Security policy does not allow weak PIN codes. Please enter a more secure PIN.'

2.13 Set Pin Failure: Pin Code Weak Pin

Test_Case_ID: Set_Pin_Failure_05_Weak_Pin_Decending

Title: Set Pin Page – Set Pin Failure: Pin Code Weak Pin

Description: A registered user should fail to set a pin that uses 1234 in consecutive decending order

Type: Positive

Precondition: The user must already be registered with an email address and password.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 4321
Pin Code Confirm: 4321

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Error pop-up returns with an alert stating 'PIN Error. Celo Security policy does not allow weak PIN codes. Please enter a more secure PIN.'

2.14 Set Pin Failure: Mismatched Pin Codes

Test_Case_ID: Set_Pin_Failure_06_Mismatched_Pin_Codes

Title: Set Pin Page – Set Pin Failure: Mismatched Pin Codes

Description: A registered user should fail to set a pin that uses capital letters in the Pin Code input and the same letters lowercase in the Confirm input

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin Code and Confirm Pin Code must not match

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 1324
Pin Code Confirm: 1334

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Set Pin page returns with an alert stating 'PINs do not match. Please re-enter.' Clears Pin input. Clears Confirm input.

2.15 Set Pin Failure: Mismatched Pin Code Casing

Test_Case_ID: Set_Pin_Failure_07_Mismatched_Cases

Title: Set Pin Page – Set Pin Failure: Mismatched Pin Code Casing

Description: A registered user should fail to set a pin that uses capital letters in the Pin Code input and the same letters lowercase in the Confirm input

Type: Positive

Precondition: The user must already be registered with an email address and password. Letters used must be the same in a different casing

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: word
Pin Code Confirm: WORD

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Set Pin page returns with an alert stating 'PINs do not match. Please re-enter.' Clears Pin input. Clears Confirm input.

2.16 Set Pin Failure: Undersized Pin

Test_Case_ID: Set_Pin_Failure_08_Undersized_Pin

Title: Set Pin Page – Set Pin Failure: Undersized Pin

Description: A registered user should fail to set a pin that has less than 4 characters

Type: Positive

Precondition: The user must already be registered with an email address and password. Letters used must be the same in a different casing

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 13

Pin Code Confirm: 13

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Press the Enter key

Expected Result: Set Pin page returns with an alert stating 'PINs are too short. Please re-enter.' Clears Pin input. Clears Confirm input.

3 Unlock Page

3.1 Unlock Successfully: Number Pin Code

Test_Case_ID: Unlock_Success_01_Number

Title: Lock Page – Unlock Successfully: Number Pin Code

Description: A registered user should be able to unlock profile with current valid pin that uses only numbers

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. In the 'Enter Pin' field, enter the Pin Code

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

3.2 Unlock Successfully: Letter Pin Code

Test_Case_ID: Unlock_Success_02_Letter

Title: Lock Page – Unlock Successfully: Letter Pin Code

Description: A registered user should be able to unlock profile with current valid pin that uses only letters

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid. Pin uses only letters

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 'word'
Pin Code Confirm: 'word'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. In the 'Enter Pin' field, enter the Pin Code

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

3.3 Unlock Successfully: Special Character Pin Code

Test_Case_ID: Unlock_Success_03_Special_Character

Title: Lock Page – Unlock Successfully: Special Character Pin Code

Description: A registered user should be able to unlock profile with current valid pin that uses only special characters

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid. Pin uses only special characters

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '!@#$'
Pin Code Confirm: '!@#$'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. In the 'Enter Pin' field, enter the Pin Code

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

3.4 Unlock Successfully: Combination Characters Pin Code

Test_Case_ID: Unlock_Success_04_Combination_Characters

Title: Lock Page – Unlock Successfully: Combination Characters Pin Code

Description: A registered user should be able to unlock profile with current valid pin that uses all types of characters

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid. Pin uses all types of characters

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 'q@34'
Pin Code Confirm: 'q@34'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button

6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. In the 'Enter Pin' field, enter the Pin Code

Expected Result: Redirected to 'Conversations' Page. URL: https://stagingapp.celohealth.com/conversations

3.5 Unlock Success: Forgot Pin

Test_Case_ID: Unlock_Success_05_Forgot_Pin

Title: Lock Page – Unlock Success: Forgot Pin

Description: A registered user should be logged out when locked out of their profile and have forgotten their pin code

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid. Pin uses all types of characters

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 'q@34'
Pin Code Confirm: 'q@34'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. Click 'Fotgot pin' link

Expected Result: Redirected to 'Root' Page. URL: https://stagingapp.celohealth.com/

3.6 Unlock Success: Switch Account

Test_Case_ID: Unlock_Success_06_Switch_Account

Title: Lock Page – Unlock Success: Switch Account

Description: A registered user should be logged out when locked out of their profile and choose to sign in with an different account

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid. Pin uses all types of characters

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: 'q@34'
Pin Code Confirm: 'q@34'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. Click 'Sign in with a different account' link

Expected Result: Redirected to 'Root' Page. URL: https://stagingapp.celohealth.com/

3.7 Unlock Failure: Invalid Pin Code

Test_Case_ID: Unlock_Failure_01_Invalid_Pin_Code

Title: Lock Page – Unlock Failure: Invalid Pin Code

Description: A registered user should be able to successfully set a pin with a valid Pin Code combination and clicking Next

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'

Invaild Unlock Pin: '0000'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. In the 'Enter Pin' field, enter the Pin Code

Expected Result: Error pop-up returns with an alert stating 'Incorrect PIN. Please re-enter.'

3.8 Unlock Failure: Expired Pin Code From Forgotten Pin

Test_Case_ID: Unlock_Failure_02_Expired_Pin_Code

Title: Lock Page – Unlock Failure: Expired Pin Code From Forgotten Pin

Description: A registered user should be able to successfully set a pin with a valid Pin Code combination and clicking Next

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
First Pin Code: '1212'
First Pin Code Confirm: '1212'
Second Pin Code: '1313'
Second Pin Code Confirm: '1313'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the First Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. Click 'Forgot Pin' link

13. Click 'Log In' button
14. In the 'email' field, enter the email address of the registered user
15. In the 'password' field, enter the password of the registered user
16. Click 'Log In' button
17. In the 'Pin Code' field, enter the Second Pin Code
18. In the 'Pin Code Confirm' field, enter the same Pin Code
19. Click 'Next' Button
20. Click 'nav-menu' Button
21. Click 'celo-lock-button' Button
22. In the 'Enter Pin' field, enter the First Pin Code

Expected Result: Error pop-up returns with an alert stating 'Incorrect PIN. Please re-enter.'

3.9 Unlock Failure: Expired Pin Code From Signing Out

Test_Case_ID: Unlock_Failure_03_Expired_Pin_Code

Title: Lock Page – Unlock Failure: Expired Pin Code From Signing Out

Description: A registered user should be able to successfully set a pin with a valid Pin Code combination and clicking Next

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
First Pin Code: '1212'
First Pin Code Confirm: '1212'
Second Pin Code: '1313'
Second Pin Code Confirm: '1313'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the First Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. Click 'Sign in with a different account' link
13. Click 'Log In' button
14. In the 'email' field, enter the email address of the registered user
15. In the 'password' field, enter the password of the registered user
16. Click 'Log In' button

17. In the 'Pin Code' field, enter the Second Pin Code
18. In the 'Pin Code Confirm' field, enter the same Pin Code
19. Click 'Next' Button
20. Click 'nav-menu' Button
21. Click 'celo-lock-button' Button
22. In the 'Enter Pin' field, enter the First Pin Code

Expected Result: Error pop-up returns with an alert stating 'Incorrect PIN. Please re-enter.'

3.10 Unlock Failure: Invalid Pin Code

Test_Case_ID: Unlock_Failure_04_Empty_Pin_Code

Title: Lock Page – Unlock Failure: Invalid Pin Code

Description: A registered user should be able to successfully set a pin with a valid Pin Code combination and clicking Next

Type: Positive

Precondition: The user must already be registered with an email address and password. Pin code is valid.

Assumption: A supported browser is being used. User logs in successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click 'nav-menu' Button
11. Click 'celo-lock-button' Button
12. Click the 'Enter Pin' field
13. Press Enter

Expected Result: Error pop-up returns with an alert stating 'Incorrect PIN. Please re-enter.'

4 Conversations Page

4.1 Send Message Success: Message String

Test_Case_ID: Conversations_Success_01_String

Title: Conversation Page – Send Message Success: Message String

Description: A registered user should be able to send a new message to an existing conversation, string

Type: Positive

Precondition: The user must already be registered with an email address and password. User is logged in. There is an existing conversation.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'
Message: 'New message'

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click the first element in the 'app-conversation-list' element
11. In the 'celo-send-message-textarea', enter the message
12. Click the send button

Expected Result: The 'app-message-list' should now have a new message with your message. The size of 'app-message-list' should be one larger than before the message was sent

4.2 Send Message Success: Uploaded Photo PNG

Test_Case_ID: Conversations_Success_02_Attachment_JPG

Title: Conversation Page – Send Message Success: Attachment JPG

Description: A registered user should be able to send an attachment to an existing conversation, .jpg

Type: Positive

Precondition: The user must already be registered with an email address and password. User is logged in. There is an existing conversation. Attachment must be available. Attachment must fit file constraints.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'
Message: testImage.jpg

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click the first element in the 'app-conversation-list' element
11. Click the 'attach-files' button
12. Click 'browse' link
13. Select testImage.jpg
14. Click the send button

Expected Result: The 'app-message-list' should now have a new message with your attachment. The size of 'app-message-list' should be one larger than before the message was sent

4.3 Send Message Success: Attachment PNG

Test_Case_ID: Conversations_Success_03_Attachment_PNG

Title: Conversation Page – Send Message Success: Attachment PNG

Description: A registered user should be able to send an attachment to an existing conversation, .png

Type: Positive

Precondition: The user must already be registered with an email address and password. User is logged in. There is an existing conversation. Attachment must be available. Attachment must fit file constraints.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'
Message: testImage.png

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click the first element in the 'app-conversation-list' element
11. Click the 'attach-files' button
12. Click 'browse' link
13. Select testImage.png
14. Click the send button

Expected Result: The 'app-message-list' should now have a new message with your attachment. The size of 'app-message-list' should be one larger than before the message was sent

4.4 Send Message Success: Attachment PDF

Test_Case_ID: Conversations_Success_04_Attachment_PDF

Title: Conversation Page – Send Message Success: Attachment PDF

Description: A registered user should be able to send an attachment to an existing conversation, .pdf

Type: Positive

Precondition: The user must already be registered with an email address and password. User is logged in. There is an existing conversation. Attachment must be available. Attachment must fit file constraints.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'
Message: testDocument.pdf

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click the first element in the 'app-conversation-list' element
11. Click the 'attach-files' button
12. Click 'browse' link

13. Select testDocument.pdf
14. Click the send button

Expected Result: The 'app-message-list' should now have a new message with your attachment. The size of 'app-message-list' should be one larger than before the message was sent

4.5 Send Message Success: Uploaded Photo JPG

Test_Case_ID: Conversations_Success_05_Upload_JPG

Title: Conversation Page – Send Message Success: Uploaded Photo JPG

Description: A registered user should be able to upload a photo to an existing conversation, .jpg

Type: Positive

Precondition: The user must already be registered with an email address and password. User is logged in. There is an existing conversation. Attachment must be available. Attachment must fit file constraints.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'
Message: testImage.jpg

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click the first element in the 'app-conversation-list' element
11. Click the 'upload-photo' button
12. Select testImage.jpg
13. Click the send button

Expected Result: The 'app-message-list' should now have a new message with your attachment. The size of 'app-message-list' should be one larger than before the message was sent

4.6 Send Message Success: Uploaded Photo PNG

Test_Case_ID: Conversations_Success_06_Attachment_PNG

Title: Conversation Page – Send Message Success: Uploaded Photo PNG

Description: A registered user should be able to upload a photo to an existing conversation, .png

Type: Positive

Precondition: The user must already be registered with an email address and password. User is logged in. There is an existing conversation. Attachment must be available. Attachment must fit file constraints.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'
Pin Code Confirm: '1212'
Message: testImage.png

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click the first element in the 'app-conversation-list' element
11. Click the 'upload-photo' button
12. Open testImage.png
13. Click the upload button

Expected Result: The 'app-message-list' should now have a new message with your attachment. The size of 'app-message-list' should be one larger than before the message was sent

4.7 Send Message Success: Secure Library Attachment

Test_Case_ID: Conversations_Success_07_Secure_Library_Attactment

Title: Conversation Page – Send Message Success: Secure Library Attachment

Description: A registered user should be able to send a secure library file to an existing conversation

Type: Positive

Precondition: The user must already be registered with an email address and password. User is logged in. There is an existing conversation. Secure library must have a file available.

Assumption: A supported browser is being used. User logs in successfully. User sets pin code successfully.

Test Data:
Email: 'qa.candidate+01@celohealth.com'
Password: '3tQp+,/Q'
Pin Code: '1212'

Pin Code Confirm: '1212'
Message: testImage.png

Test Steps:
1. Navigate to https://stagingapp.celohealth.com/
2. Click 'Log In' button
3. In the 'email' field, enter the email address of the registered user
4. In the 'password' field, enter the password of the registered user
5. Click 'Log In' button
6. In the 'Pin Code' field, enter the Pin Code
7. In the 'Pin Code Confirm' field, enter the same Pin Code
9. Click 'Next' Button
10. Click the first element in the 'app-conversation-list' element
11. Click the 'attach-secure-library' button
12. Click the first element in 'app-photos-list'
13. Click the send button

Expected Result: The 'app-message-list' should now have a new message with your attachment. The size of 'app-message-list' should be one larger than before the message was sent

5 Closing Notes And Findings:

5.1 Closing Notes

To whom this may concern, thank you for taking the time to review my QA challenge and for this opportunity. This was perhaps one of the most enjoyable technical challenges I have done. I have not used Selenium before so no matter the outcome of this, I have already learned a lot.

In total, I have spent two evenings working on this challenge (approximately 4 hours each) writing the manual test cases, configuring my environment which was a challenge, learning selenium, and translating the manual tests into automated test.

Thank you again, and I look forward to receiving feedback.

5.2 Findings

- When going to the login page, the first input field (Email Address) is automatically focused on page load. This is the case with the Set Pin screen too. However, this does not happen in the Locked Page

- There are four different elements used for error handling
   1. Red alert box above the form (Log In page, for all errors)
   2. Small grey alret message in the form, above the disabled Next button (Set Pin Page, for mismatched pins)
   3. Error Pop-Up (Set Pin Page, for pins with one charater repeated 4 times)
   4. Pin Error (Set Pin Page, for weak pins like '1234')

- Pins with any type of charater combination may be accepted in the Set Pin page. However, when unlocking the account, the pin will be counted as invalid unless thefirst character in the pin is a number.

- 1234 and 4321 are considered weak pins but 2345 and 6789 are not.

- Cannot press Enter while focused on the Pin (first pin) input to navigate to user home page from the Set Pin page.

5.3 Future Work

- Creating .java objects for each of the pages. This is to abstract away the page information from the test and remove the variables declared at the start. This would also allow for pages to have their own functions. This would be the first piece of future work to undertake as is would make tests easier and faster to read and write.
- More detail in the test plan. I prioritized learning and writing the Selenium test in trade off for learning how to write a test plan correctly. Given more time, this would be the second focus.
- Automated tests for the conversations page. I have included a psudo test that includes some real code but some elements such as the chat tab I was unable to find. Therefore, I was unable to complete the text in full Java.