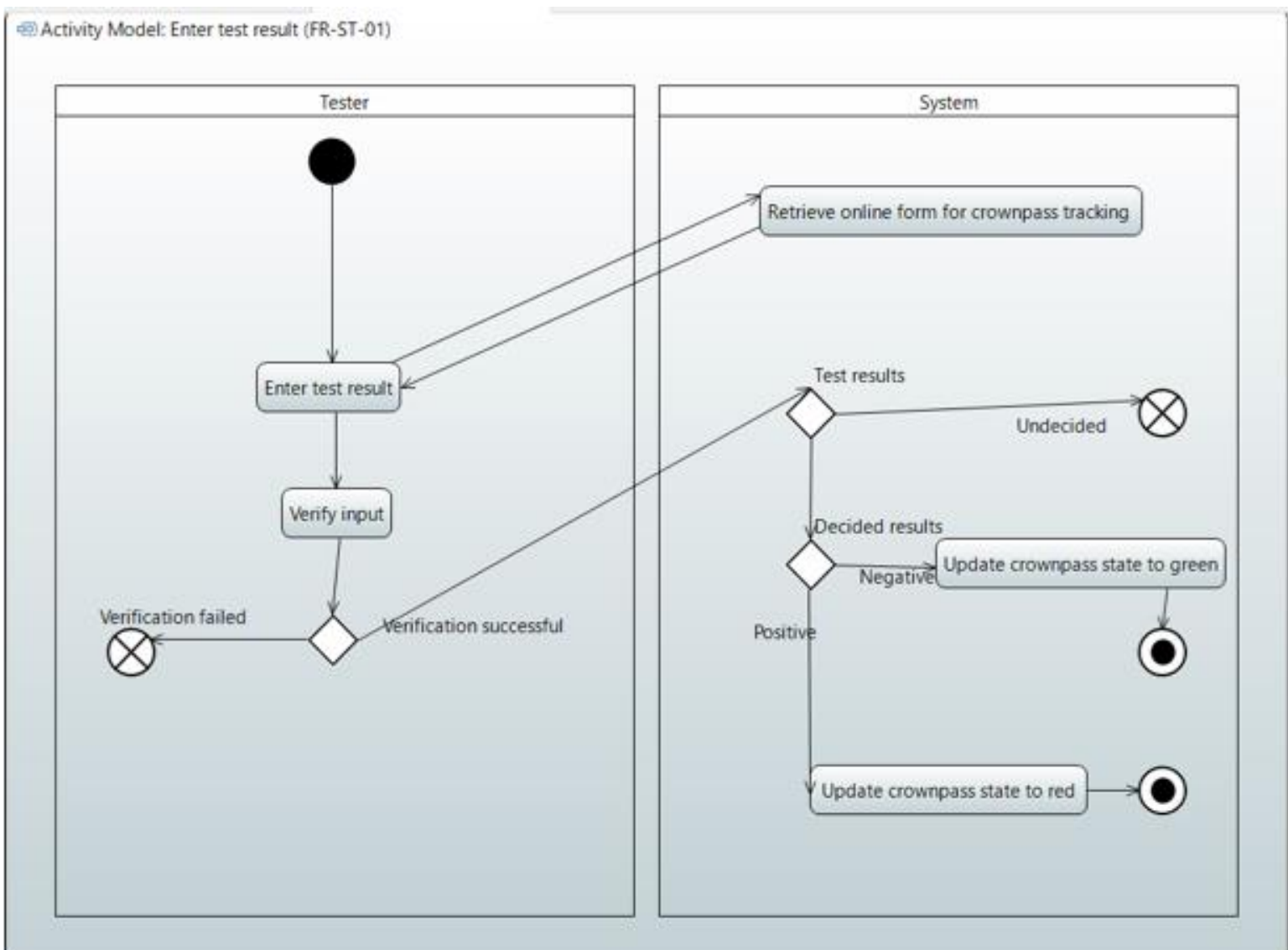


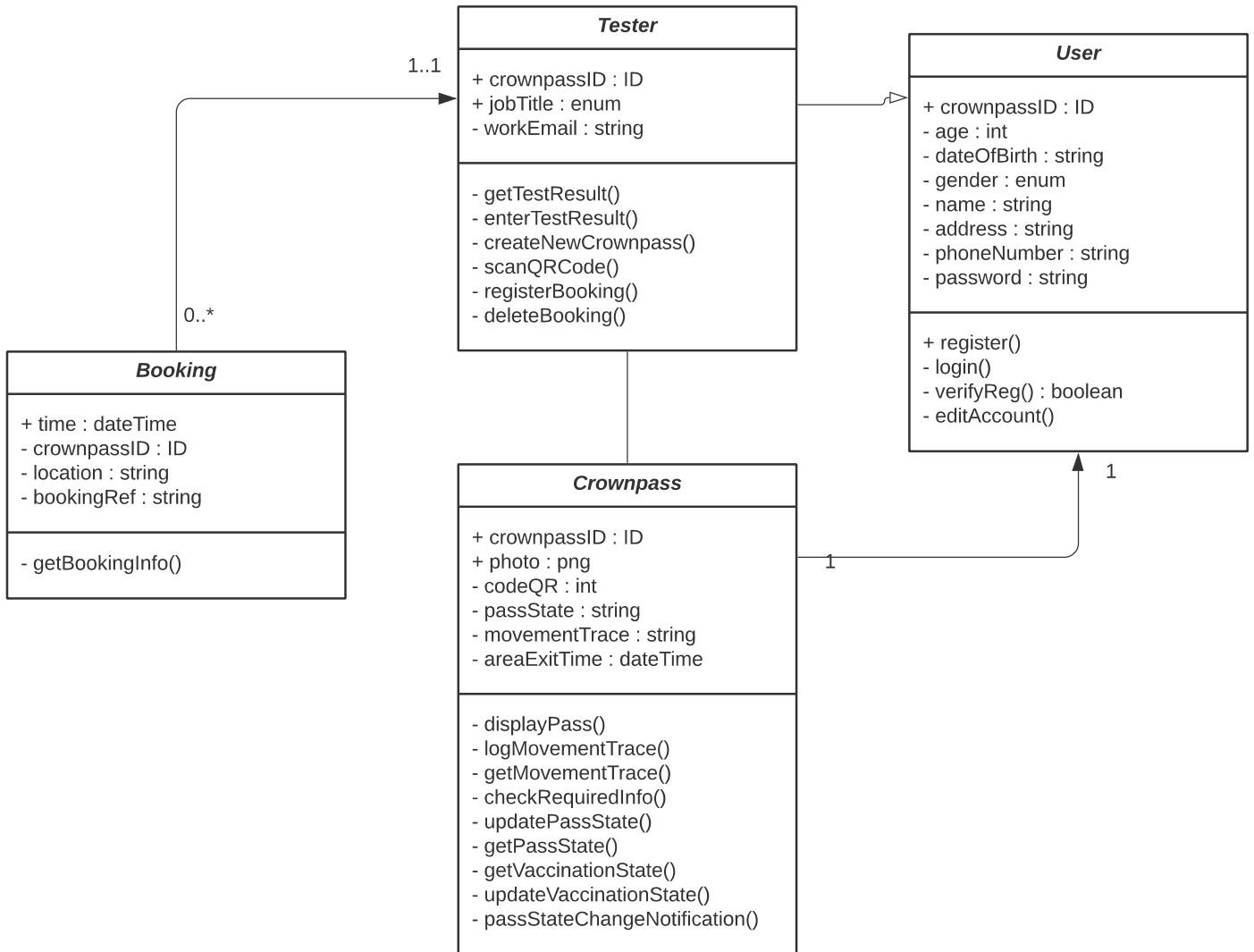
Activity model:



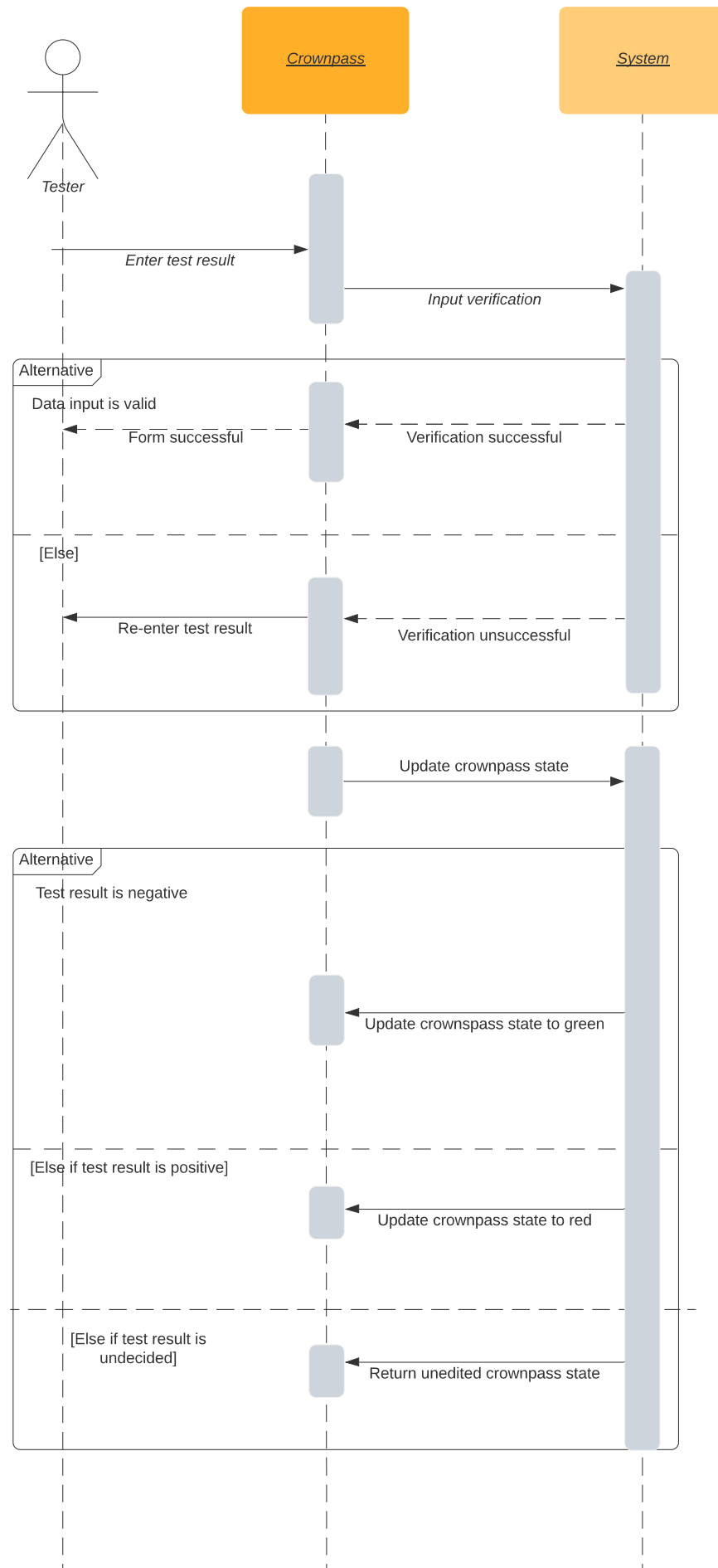
Class diagram:

Class diagram Tester

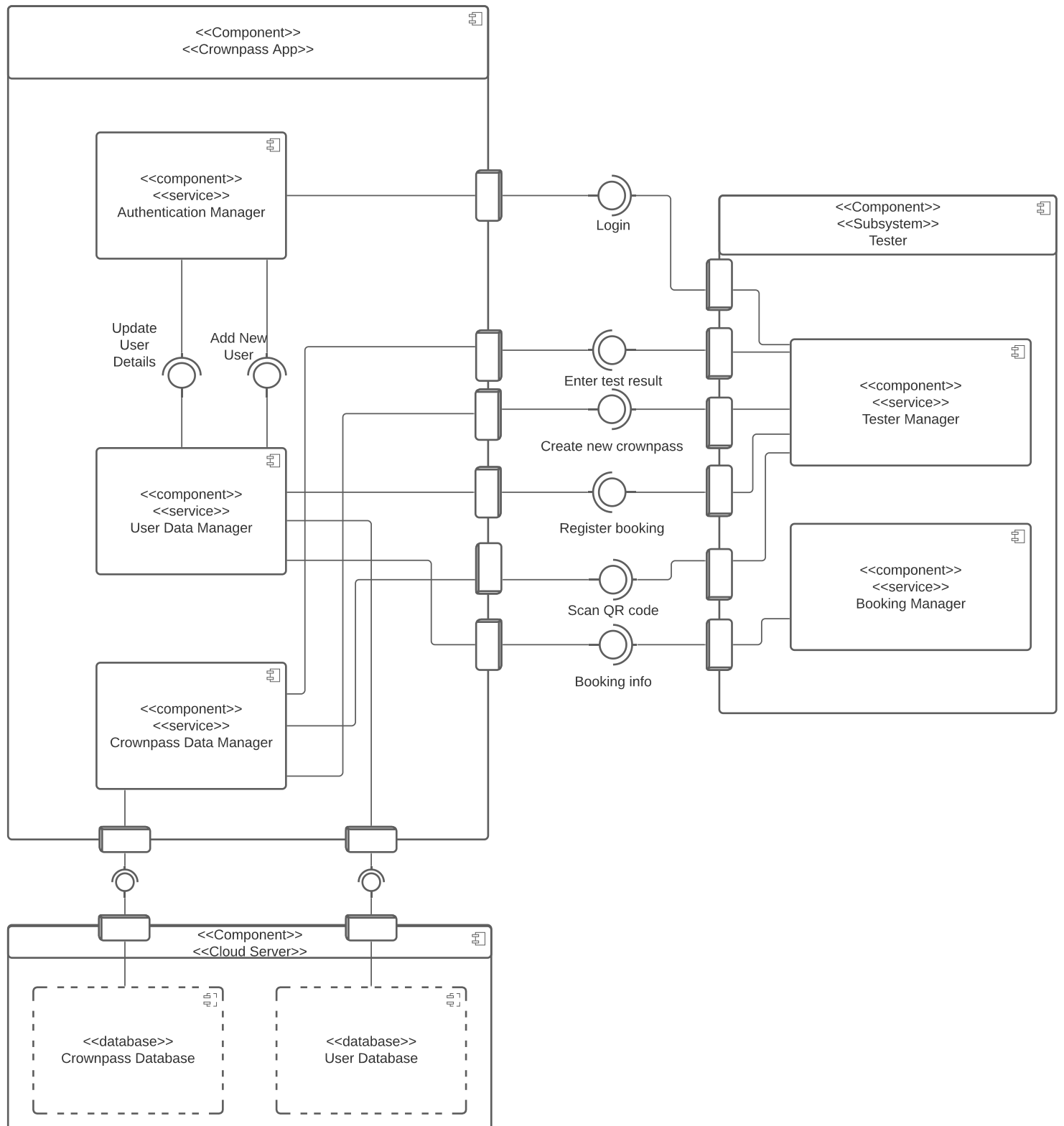
19026013 | December 2, 2021



Sequence diagram



Individual component diagram:



Unit test plan:

Test Case	Method and Parameters	Expected Output
Received test result successfully	getTestResult(negative/positive/undecided)	Negative/positive/undecided
Received test result unsuccessfully	getTestResult(negative/positive/undecided)	Error message: "Could not get test result"
Negative test result entered	enterTestResult(negative)	Crownpass state updated to green
Positive test result	enterTestResult(positive)	Crownpass state updated to red
Undecided test result	enterTestResult(undecided)	Crownpass state not updated
Incorrect credentials	enterTestResult(123)	Error message: "Please enter the correct credentials"
Create a new crownpass successfully	createNewCrownpass(crownpassID, age, dateOfBirth, gender, name, photo, address, phoneNumber). Example: createNewCrownpass(12345, 22, 09/12/1999, female, Hege, photo, 1 address rd, 07766655544)	A new crownpass is successfully created for the user with all of their correct information
Creating a new crownpass unsuccessfully	createNewCrownpass(crownpassID, age, dateOfBirth, gender, name, photo, address, phoneNumber) Example: createNewCrownpass(12#45, age, nope, 54, Winnie, photo, 1 address rd, 07766655544)	Error message: "Something went wrong, make sure you enter the correct credentials"
Scan the users QR code successfully	scanQRCode(QR)	QR code scanned and the user's crownpass is being displayed
Scan the users QR code unsuccessfully	scanQRCode(QR)	Error message: "Could not scan QR code"
Making a booking for testing a user successfully	makeBooking(crownpassID, name, dateOfBirth, phoneNumber, time, testCentre) Example: makeBooking(12345, Hege, 09/12/1999, 07766655544, 15:00, Oxford Test Centre)	A booking is successfully made for testing of the user, and a booking reference has been generated which is linked to the booking.
Making a booking for testing a user unsuccessfully	makeBooking(crownpassID, name, dateOfBirth, phoneNumber, time, testCentre)	Error message: "Something went wrong, could not make booking. Make sure you enter the correct credentials"

Scenario description: Enter test result (FR-ST-01)

Scenario 1:

Tester	System
1.Begin test result form for the test booking	2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking	
4. Submit form to be verified	5. Verify input
	5. If verification failed, cancel form/activity

Test Data:

Input:

- Test result

Stored data:

- System
 - Online form for crownpass tracking
 - Crownpass holder information
 - QR code
 - Crownpass state

Output: Verification failed

Test process

1. Begin test result form for the test booking
2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking
4. Submit form to be verified
5. Verify input
6. If verification failed, cancel form/activity

Expected output: Verification failed

Check: That the system doesn't verify inputs which shouldn't be verified

Scenario 2:

Tester	System
1.Begin test result form for the test booking	2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking	
4. Submit form to be verified	5. Verify input
	6. Input verified
	7. Check if test results are undecided
	8. Test result is undecided, cancel activity (do not update crownpass)

Test Data:

Input:

- Test result

Stored data:

- System
 - Online form for crownpass tracking
 - Crownpass holder information
 - QR code
 - Crownpass state

Output: Test result is undecided, cancelled activity, crownpass state not updated

Test process

1. Begin test result form for the test booking
2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking
4. Submit form to be verified
5. Verify input
6. Verification is successful, move on
7. Check if test results are undecided
8. Test result is undecided, cancel activity (do not update crownpass)

Expected output: Cancelled activity

Check: That the system cancels the activity when the test result is undecided

Scenario 3:

Tester	System
1.Begin test result form for the test booking	2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking	
4. Submit form to be verified	5. Verify input
	6. Input verified
	7. Check if test results are undecided
	8. Test result is decided, go on to check result
	9. Test result is negative, update crownpass state to green

Test Data:

Input:

- Test result

Stored data:

- System
 - Online form for crownpass tracking
 - Crownpass holder information
 - QR code
 - Crownpass state

Output: Crownpass state updated to green

Test process

1. Begin test result form for the test booking
2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking
4. Submit form to be verified
5. Verify input
6. Verification is successful, move on
7. Check if test results are undecided
8. Test result is decided, move on
9. Test result is negative, update crownpass state to green

Expected output: Crownpass state info which is updated to green

Check: That the crownpass state got updated to the correct state

Scenario 4:

Tester	System
1.Begin test result form for the test booking	2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking	
4. Submit form to be verified	5. Verify input
	6. Input verified
	7. Check if test results are undecided
	8. Test result is decided, go on to check result
	9. Test result is positive, update crownpass state to red

Test Data:

Input:

- Test result

Stored data:

- System
 - Online form for crownpass tracking
 - Crownpass holder information
 - QR code
 - Crownpass state

Output: Crownpass state updated to red

Test process

1. Begin test result form for the test booking
2. Retrieve online form for crownpass tracking
3. Enter test result into form of booking
4. Submit form to be verified
5. Verify input
6. Verification is successful, move on
7. Check if test results are undecided
8. Test result is decided, move on
9. Test result is positive, update crownpass state to red

Expected output: Crownpass state info which is updated to red

Check: That the crownpass state got updated to the correct state