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IT-314 Project
Aegis Secure
Automated GUI Testing

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Automated GUI Testing

Automated GUI Testing is a process used to verify that an application's user interface behaves as expected without requiring manual interaction. Instead of tapping, typing, and navigating the app manually, automated scripts perform these actions consistently, quickly, and accurately. This helps identify UI issues, navigation errors, unresponsive elements, or unexpected behavior early in the development cycle.

For this project, automated GUI testing was performed to validate different user flows such as signing in, verifying emails, scanning SMS messages, analyzing text, navigating through settings, and interacting with various buttons and widgets. These test cases ensure that every essential part of the UI is functional, responsive, and able to handle user interactions reliably.

Notes on Maestro Studio (Tool Used)

Maestro Studio was used as the primary tool to create and execute the automated test cases. It provided a visual and intuitive environment for recording actions, inspecting screen elements, and converting interactions into YAML-based test scripts.

Why Maestro Studio Was Useful?

- **Visual Interface:** Allowed me to see the app screen live, making it easy to identify UI elements.

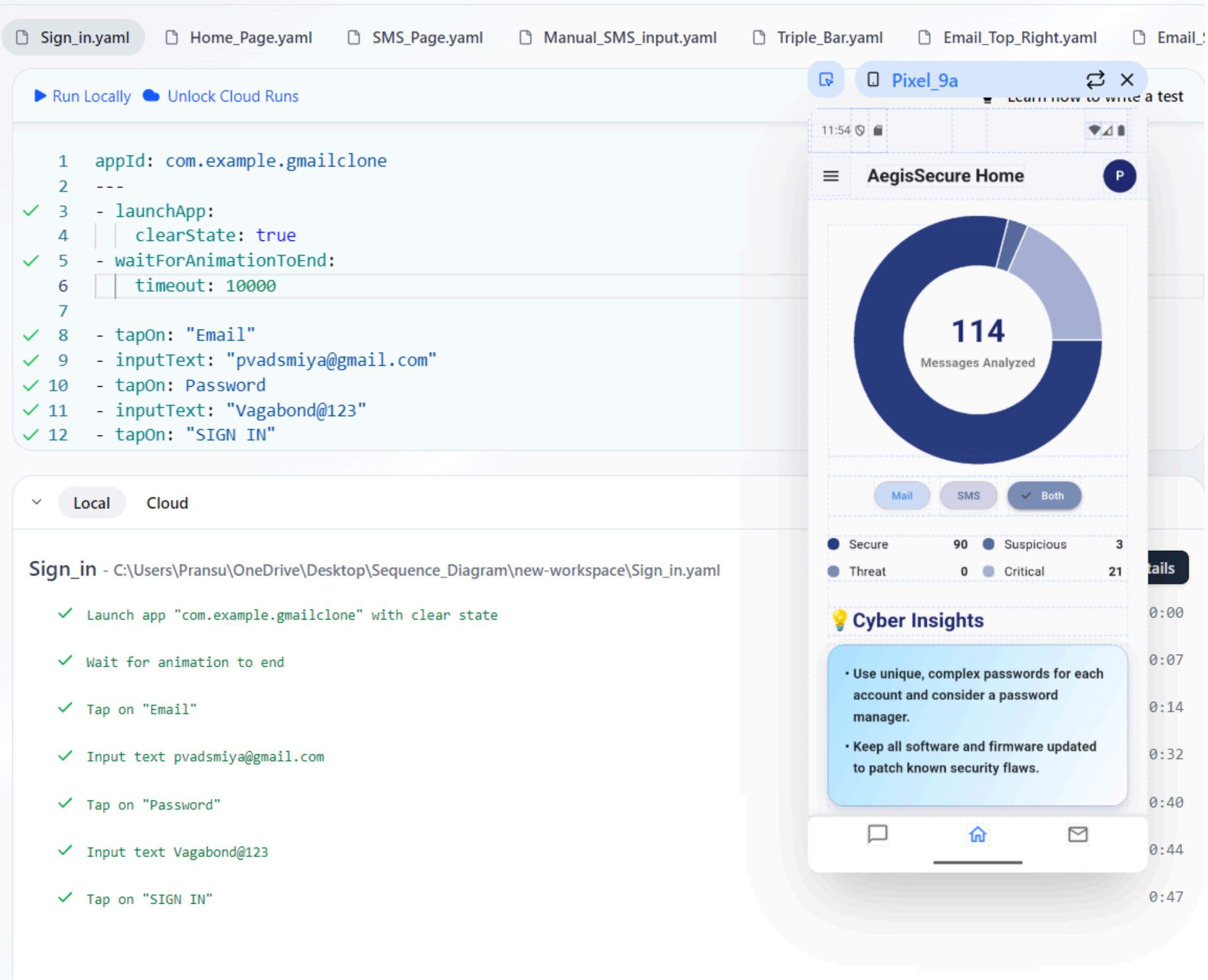
- **Record & Convert to YAML:** Every tap, long press, scroll, and text input could be generated automatically as YAML code.

- **Element Inspection:** I could inspect labels, coordinates, and text to precisely target buttons or fields.

- **Real-time Debugging:** The tool showed failures instantly, helping to correct scripts quickly.

- **Multi-step Flows:** Ideal for testing long sequences like login → OTP screen → home page → settings.

Sign In :-



```
appId: com.example.gmailclone
---
- launchApp:
    clearState: true
- waitForAnimationToEnd:
    timeout: 10000

- tapOn: "Email"
- inputText: "pvadsmiya@gmail.com"
- tapOn: Password
- inputText: "Vagabond@123"
- tapOn: "SIGN IN"
```

```
Sign_in - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Sign_in.yaml

✓ Launch app "com.example.gmailclone" with clear state    0:00
✓ Wait for animation to end                               0:07
✓ Tap on "Email"                                          0:14
✓ Input text pvadsmiya@gmail.com                          0:32
✓ Tap on "Password"                                       0:40
✓ Input text Vagabond@123                                 0:44
✓ Tap on "SIGN IN"                                        0:47
```

● Secure	90	● Suspicious	3
● Threat	0	● Critical	21

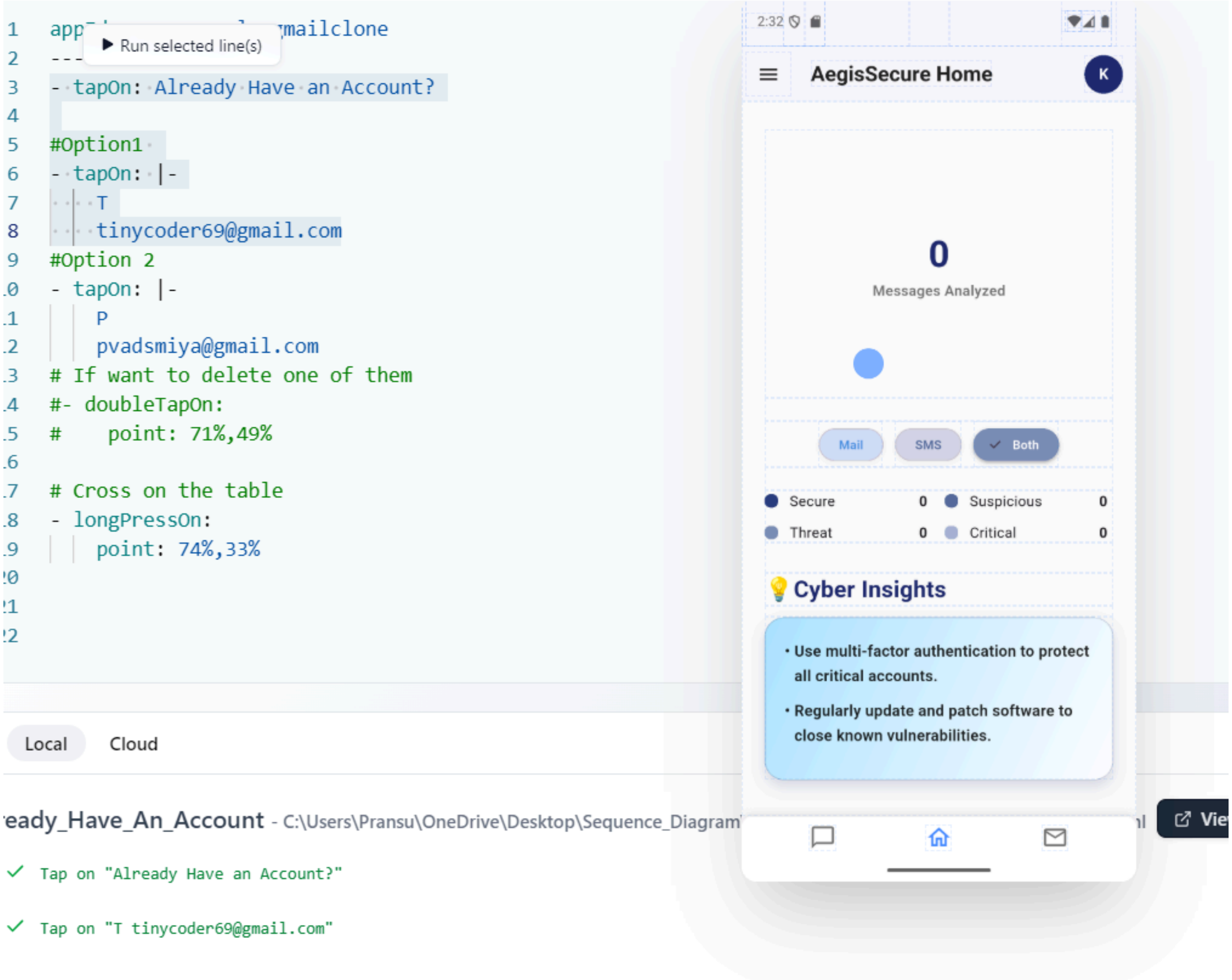
💡 Cyber Insights

- Use unique, complex passwords for each account and consider a password manager.
- Keep all software and firmware updated to patch known security flaws.

- The Email field was detected correctly and accepted user input.
- The Password field responded properly and allowed secure text entry.
- The “SIGN IN” button was active, clickable, and responded immediately.
- The screen was scrollable, and all UI elements remained accessible while scrolling.
- All interactive components were responsive, confirming that the Sign-In screen UI works smoothly and as expected.

Already Have An Account ?

1.Signing in using pre-registered email ID :



```
app                       mailclone
---
- tapOn: Already Have an Account?

#Option1
- tapOn: |-
    T
    tinycoder69@gmail.com
#Option 2
- tapOn: |-
    P
    pvadsmiya@gmail.com
# If want to delete one of them
#- doubleTapOn:
#    point: 71%,49%

# Cross on the table
- longPressOn:
    point: 74%,33%
```

eady_Have_An_Account - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram

```
✓ Tap on "Already Have an Account?"

✓ Tap on "T tinycoder69@gmail.com"
```

0
Messages Analyzed

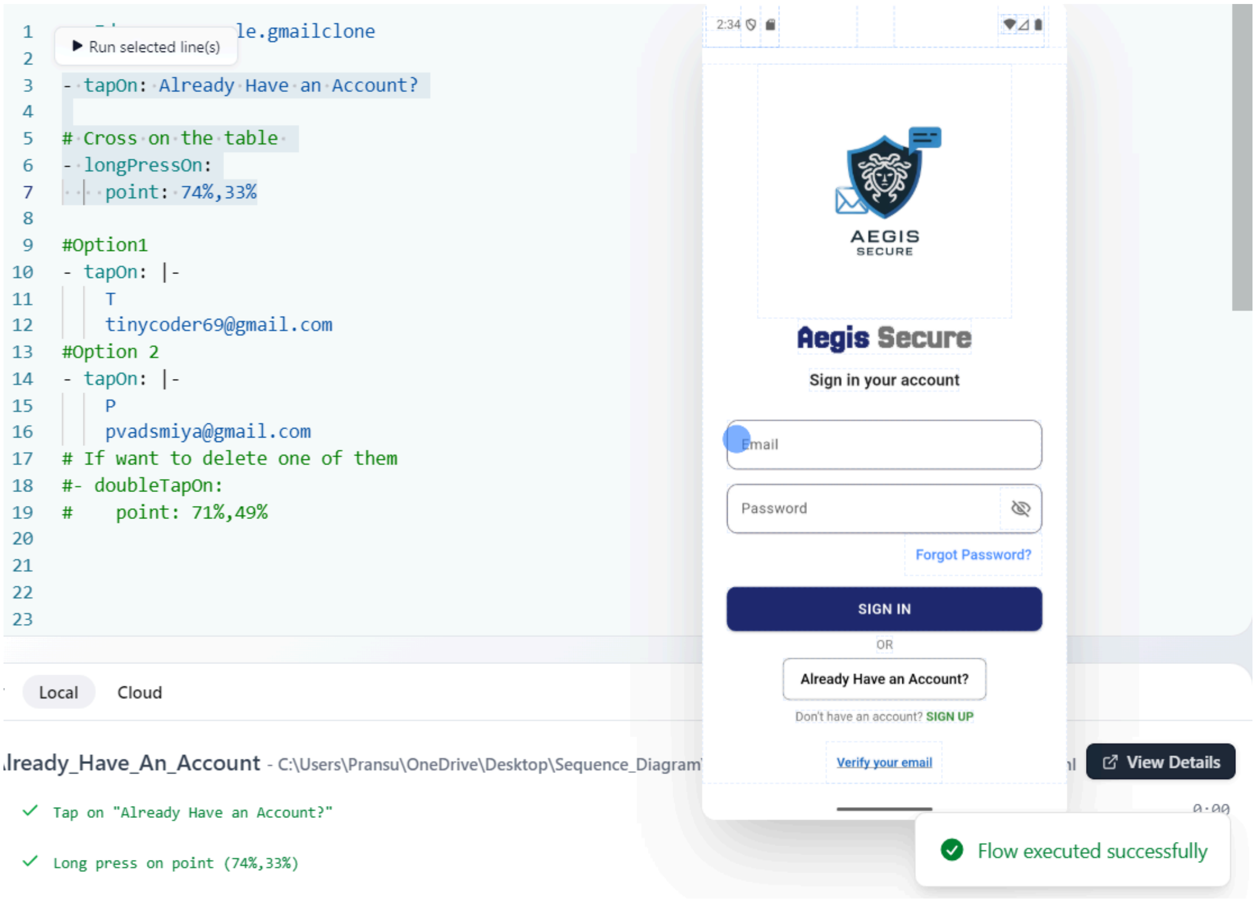
● Secure	0	● Suspicious	0
● Threat	0	● Critical	0

💡 Cyber Insights

- Use multi-factor authentication to protect all critical accounts.
- Regularly update and patch software to close known vulnerabilities.

- The “Already Have an Account?” button was detected and responded correctly.
- The app displayed the account selection options properly.
- Tapping on a pre-registered email (e.g., *tinycoder69@gmail.com* or *pvadsmiya@gmail.com*) worked as expected.
- All clickable elements on the screen were active and responsive.
- The app successfully proceeded to the Home Page after selecting an account, confirming stable and correct UI behavior.

2.Clicking on the cancel/cross button after opening the ‘Already Have an Account?’ screen



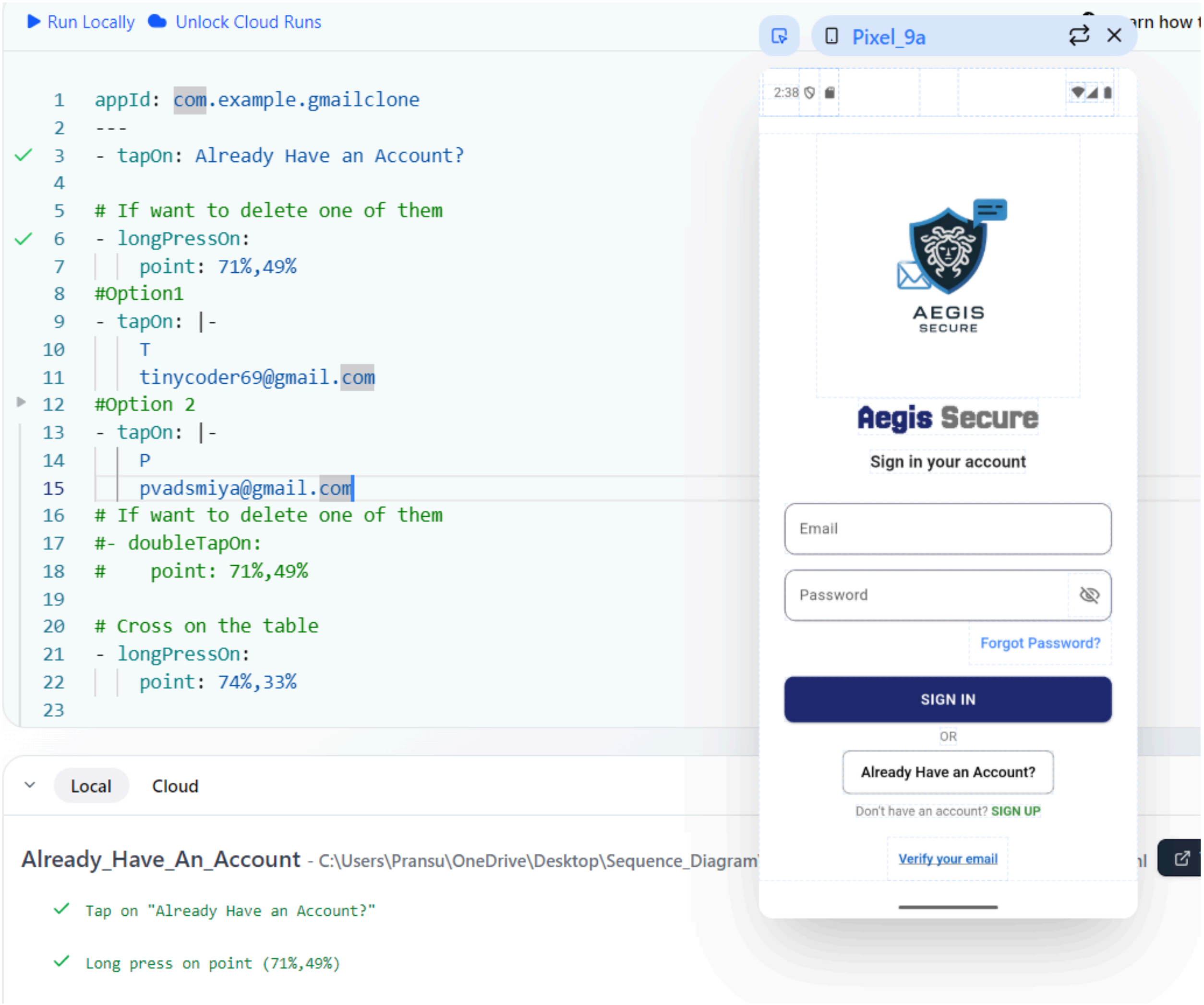
```
          le.gmailclone

- tapOn: Already Have an Account?

# Cross on the table
- longPressOn:
    point: 74%,33%

#Option1
- tapOn: |-
    T
    tinycoder69@gmail.com
#Option 2
- tapOn: |-
    P
    pvadsmiya@gmail.com
# If want to delete one of them
#- doubleTapOn:
#    point: 71%,49%
```

lready_Have_An_Account - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram

```
✓ Tap on "Already Have an Account?"

✓ Long press on point (74%,33%)
```

- The “Already Have an Account?” option opened the account selection screen correctly.
- The cancel/cross button was detected successfully through the long-press action.
- Tapping the cancel/cross button returned the user back to the Sign-In screen without any issues.
- All UI elements on this screen were responsive, confirming that the cancel action works properly and the navigation flow behaves as expected.

3.Clicking on the bin widget/icon on the side of the mail ID when ‘Already have an account?’ is pressed,deletes corresponding email address.



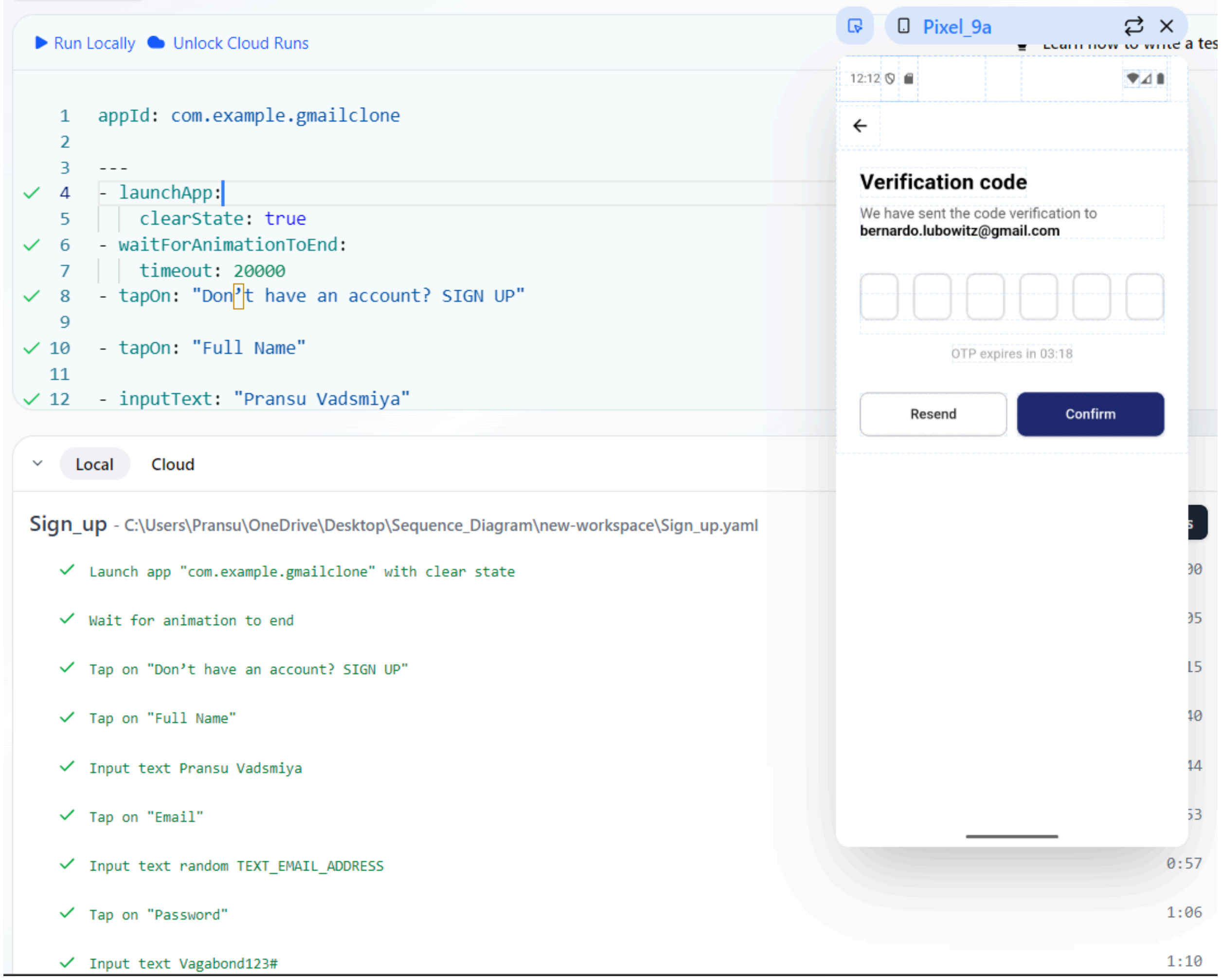
```
appId: com.example.gmailclone
---
- tapOn: Already Have an Account?

# If want to delete one of them
- longPressOn:
    point: 71%,49%
#Option1
- tapOn: |-
    T
    tinycoder69@gmail.com
#Option 2
- tapOn: |-
    P
    pvadsmiya@gmail.com
# If want to delete one of them
#- doubleTapOn:
#    point: 71%,49%

# Cross on the table
- longPressOn:
    point: 74%,33%

```

Already_Have_An_Account - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram

```
✓ Tap on "Already Have an Account?"

✓ Long press on point (71%,49%)
```

- The “Already Have an Account?” option opened the saved email list correctly.
- The bin/delete icon beside each email was detected and responded to user interaction.
- Long-pressing the bin area successfully removed the selected email from the list.
- The UI updated immediately after deletion, confirming proper functionality.
- All elements on the screen were responsive, showing that the email deletion feature works smoothly and as expected.

Sign up



```
appId: com.example.gmailclone

---
- launchApp:
    clearState: true
- waitForAnimationToEnd:
    timeout: 20000
- tapOn: "Don't have an account? SIGN UP"

- tapOn: "Full Name"

- inputText: "Pransu Vadsmiya"
```

12:12

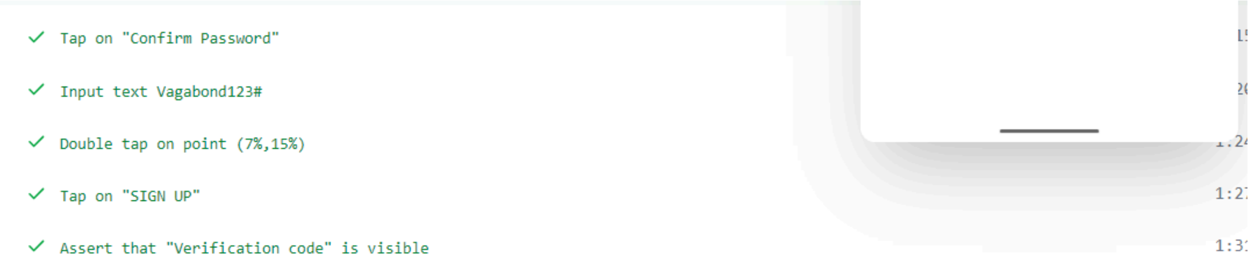
Verification code

We have sent the code verification to
bernardo.lubowitz@gmail.com

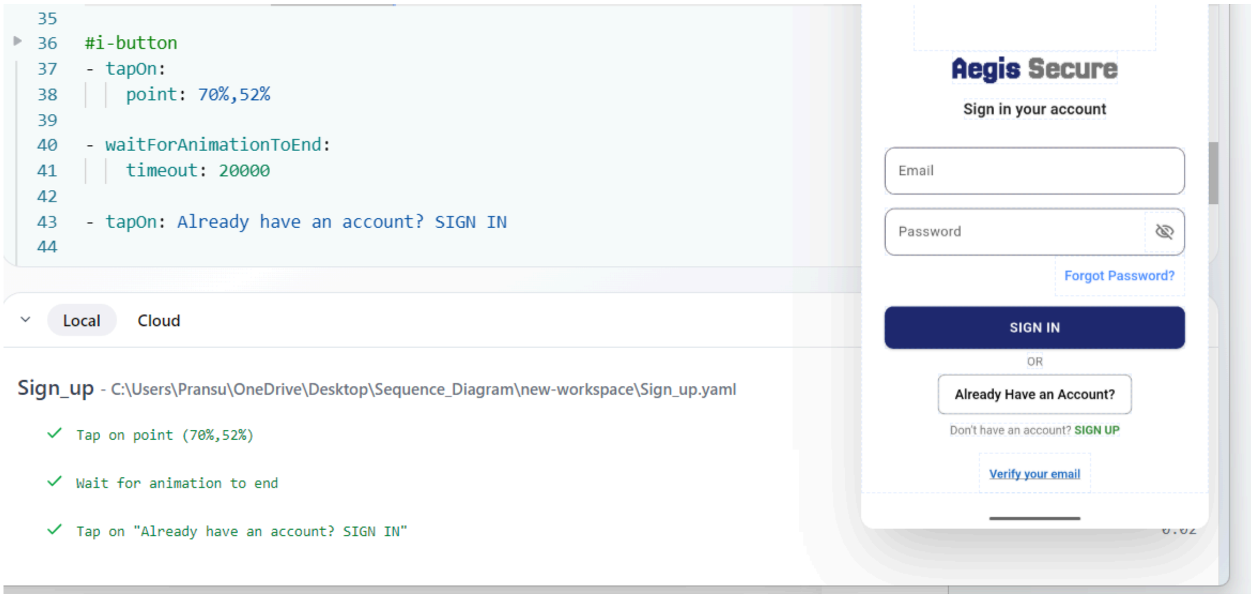
OTP expires in 03:18

Sign_up - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Sign_up.yaml

```
✓ Launch app "com.example.gmailclone" with clear state      90
✓ Wait for animation to end                                 95
✓ Tap on "Don't have an account? SIGN UP"                   15
✓ Tap on "Full Name"                                        40
✓ Input text Pransu Vadsmiya                                14
✓ Tap on "Email"                                            53
✓ Input text random TEXT_EMAIL_ADDRESS                    0:57
✓ Tap on "Password"                                       1:06
✓ Input text Vagabond123#                                 1:10
```



```
✓ Tap on "Confirm Password"                                 L5
✓ Input text Vagabond123#                                   20
✓ Double tap on point (7%,15%)                            1:24
✓ Tap on "SIGN UP"                                        1:2
✓ Assert that "Verification code" is visible              1:3
```



```
#i-button
- tapOn:
    point: 70%,52%

- waitForAnimationToEnd:
    timeout: 20000

- tapOn: Already have an account? SIGN IN

```

Local Cloud

Sign_up - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Sign_up.yaml

```
✓ Tap on point (70%,52%)
✓ Wait for animation to end
✓ Tap on "Already have an account? SIGN IN"
```

- The “Don’t have an account? SIGN UP” link worked and opened the sign-up form correctly.

- All input fields (Full Name, Email, Password, Confirm Password) were active and accepted user inputs without issues.

- Buttons like “SIGN UP” responded properly when tapped.

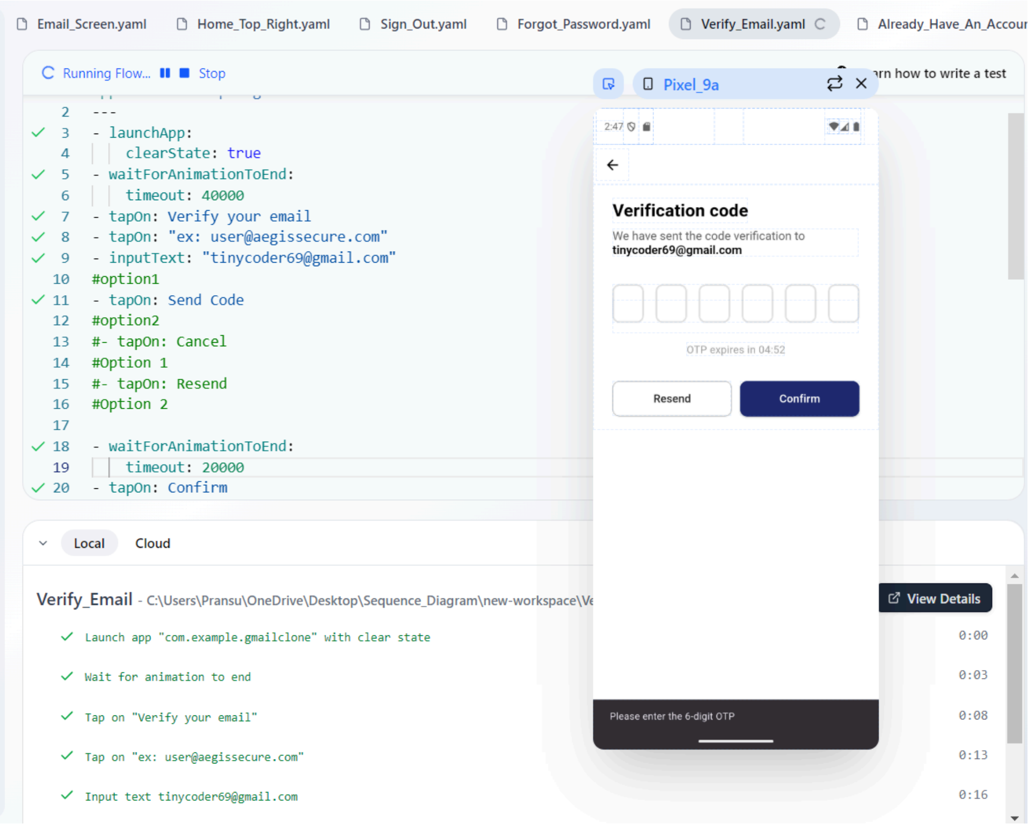
- After submitting the information, the app successfully moved to the Verification Code (OTP) screen.

- This shows that the Sign Up screen UI is working smoothly and all main elements behave as expected.

Verify the email

1.When we don’t want to cancel after writing the email.

OTP confirm button clicked



```
---
- launchApp:
    clearState: true
- waitForAnimationToEnd:
    timeout: 40000
- tapOn: Verify your email
- tapOn: "ex: user@aegissecure.com"
- inputText: "tinycoder69@gmail.com"
#option1
- tapOn: Send Code
#option2
#- tapOn: Cancel
#Option 1
#- tapOn: Resend
#Option 2

- waitForAnimationToEnd:
    timeout: 20000
- tapOn: Confirm
```

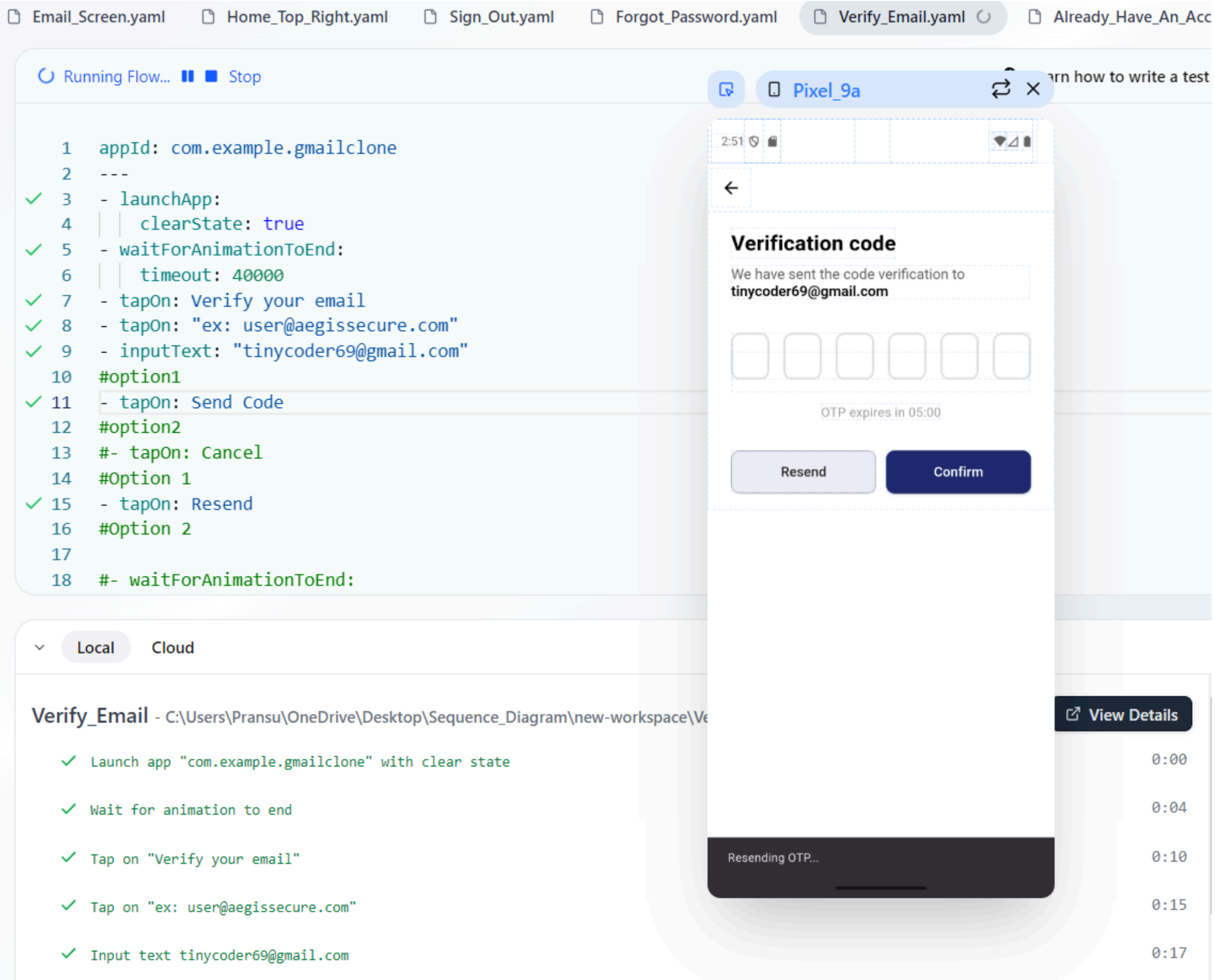
We have sent the code verification to
tinycoder69@gmail.com

Verify_Email - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Ve

```
✓ Launch app "com.example.gmailclone" with clear state    0:00
✓ Wait for animation to end                               0:03
✓ Tap on "Verify your email"                              0:08
✓ Tap on "ex: user@aegissecure.com"                       0:13
✓ Input text tinycoder69@gmail.com                        0:16
```

- The “Verify your email” option opened the OTP verification screen correctly.
- The app accepted the entered email and displayed the OTP input interface without issues.
- The “Send Code” and “Confirm” buttons were responsive and triggered the expected actions.
- The verification screen loaded properly and all interactive elements behaved as intended, confirming that the email verification flow works smoothly.

The OTP was resend :-



```
appId: com.example.gmailclone
---
- launchApp:
    clearState: true
- waitForAnimationToEnd:
    timeout: 40000
- tapOn: Verify your email
- tapOn: "ex: user@aegissecure.com"
- inputText: "tinycoder69@gmail.com"
#option1
- tapOn: Send Code
#option2
#- tapOn: Cancel
#Option 1
- tapOn: Resend
#Option 2

#- waitForAnimationToEnd:
```

Verification code

We have sent the code verification to
tinycoder69@gmail.com

OTP expires in 05:00

Resend | Confirm

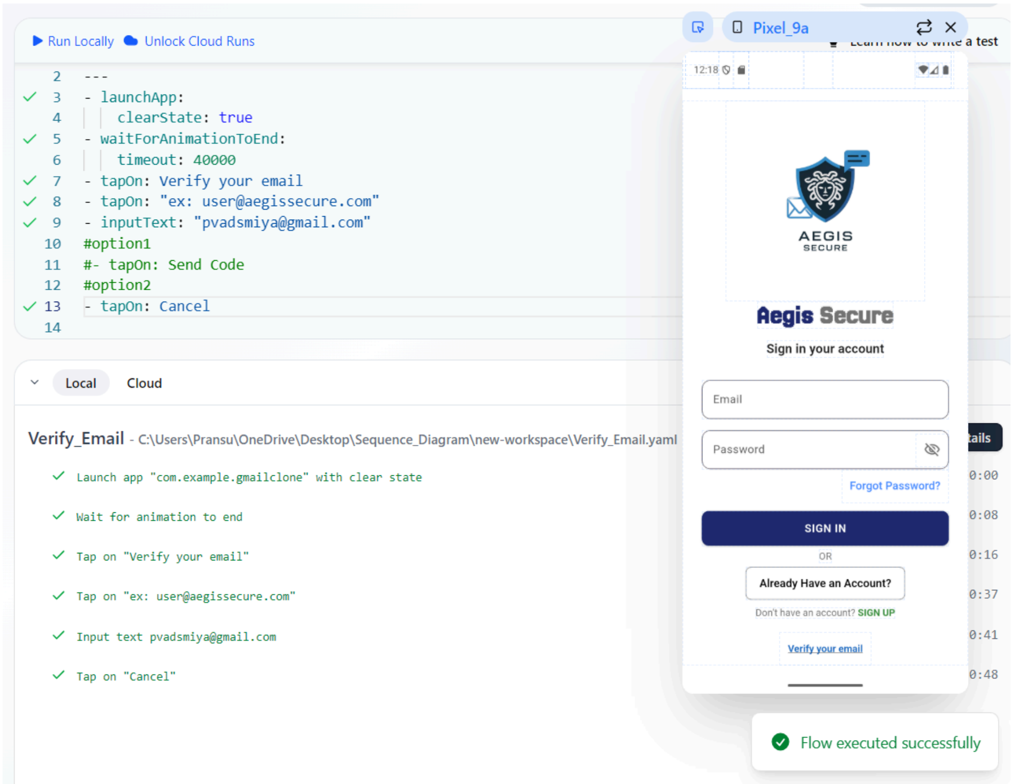
Resending OTP...

Verify_Email - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Ve

```
✓ Launch app "com.example.gmailclone" with clear state    0:00
✓ Wait for animation to end                                0:04
✓ Tap on "Verify your email"                               0:10
✓ Tap on "ex: user@aegissecure.com"                        0:15
✓ Input text tinycoder69@gmail.com                         0:17
```

- After entering the email, the OTP verification screen loaded correctly.
- The “Resend” button was active and responded immediately when tapped.
- The app successfully triggered the OTP resend process, confirming the expected behavior.
- All interactive elements remained functional, showing that the resend feature works smoothly and reliably.

2.When we want to cancel after adding the email



```
---
- launchApp:
    clearState: true
- waitForAnimationToEnd:
    timeout: 40000
- tapOn: Verify your email
- tapOn: "ex: user@aegissecure.com"
- inputText: "pvadsmiya@gmail.com"
#option1
#- tapOn: Send Code
#option2
- tapOn: Cancel
```

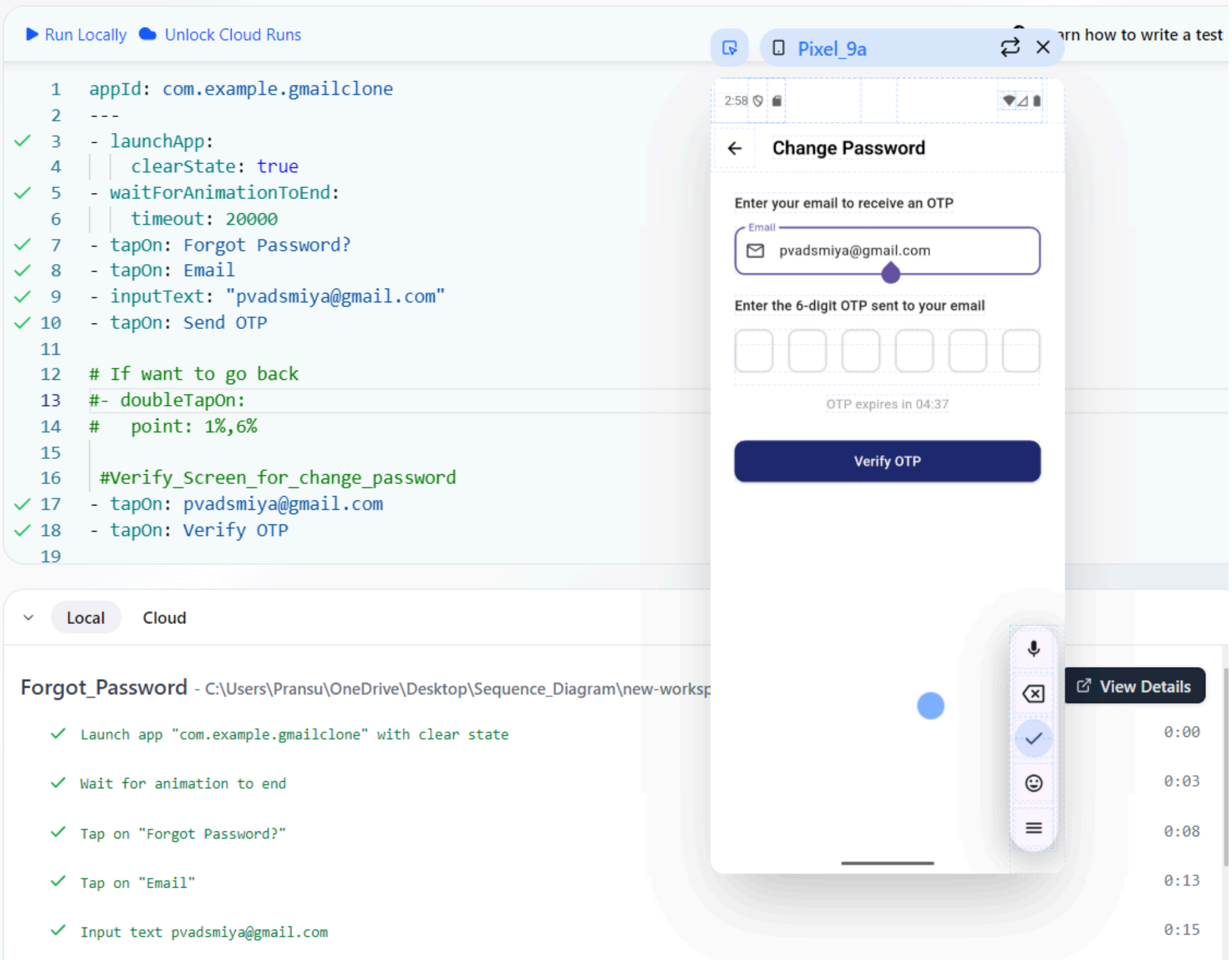
Verify_Email - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Verify_Email.yaml

```
✓ Launch app "com.example.gmailclone" with clear state    0:00
✓ Wait for animation to end                               0:08
✓ Tap on "Verify your email"                              0:16
✓ Tap on "ex: user@aegissecure.com"                       0:37
✓ Input text pvadsmiya@gmail.com                          0:41
✓ Tap on "Cancel"                                         0:48
```

Flow executed successfully

- The email field allowed the user to enter their email normally.
- The “Cancel” button was clickable and responded correctly.
- After pressing Cancel, the app returned safely to the Sign-In screen without errors.
- This shows that the cancellation flow works properly and the user can back out of the verification process anytime.

Forgot password



```
appId: com.example.gmailclone
---
- launchApp:
    clearState: true
- waitForAnimationToEnd:
    timeout: 20000
- tapOn: Forgot Password?
- tapOn: Email
- inputText: "pvadsmiya@gmail.com"
- tapOn: Send OTP

# If want to go back
#- doubleTapOn:
#   point: 1%,6%

 #Verify_Screen_for_change_password
- tapOn: pvadsmiya@gmail.com
- tapOn: Verify OTP

```

Change Password

Enter your email to receive an OTP

Email: pvadsmiya@gmail.com

Enter the 6-digit OTP sent to your email

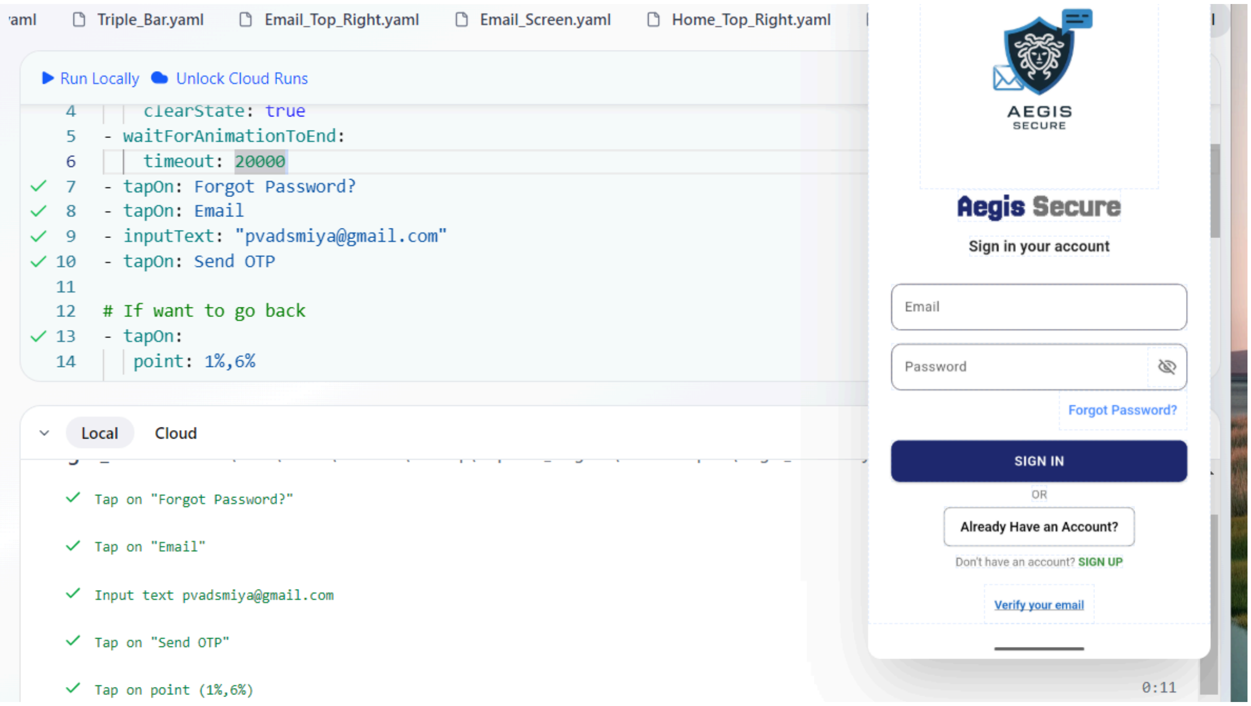
OTP expires in 04:37

Verify OTP

Forgot_Password - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-worksp

```
✓ Launch app "com.example.gmailclone" with clear state    0:00
✓ Wait for animation to end                                0:03
✓ Tap on "Forgot Password?"                                0:08
✓ Tap on "Email"                                           0:13
✓ Input text pvadsmiya@gmail.com                           0:15
```

- The “Forgot Password?” button was detected and opened the password recovery screen correctly.
- The Email field accepted user input without any issues.
- The “Send OTP” button responded properly and navigated to the OTP verification section.
- The verification screen loaded smoothly, and all elements—including the email display and “Verify OTP” button—were active and responsive.
- Overall, the Forgot Password workflow functioned correctly and behaved as expected.



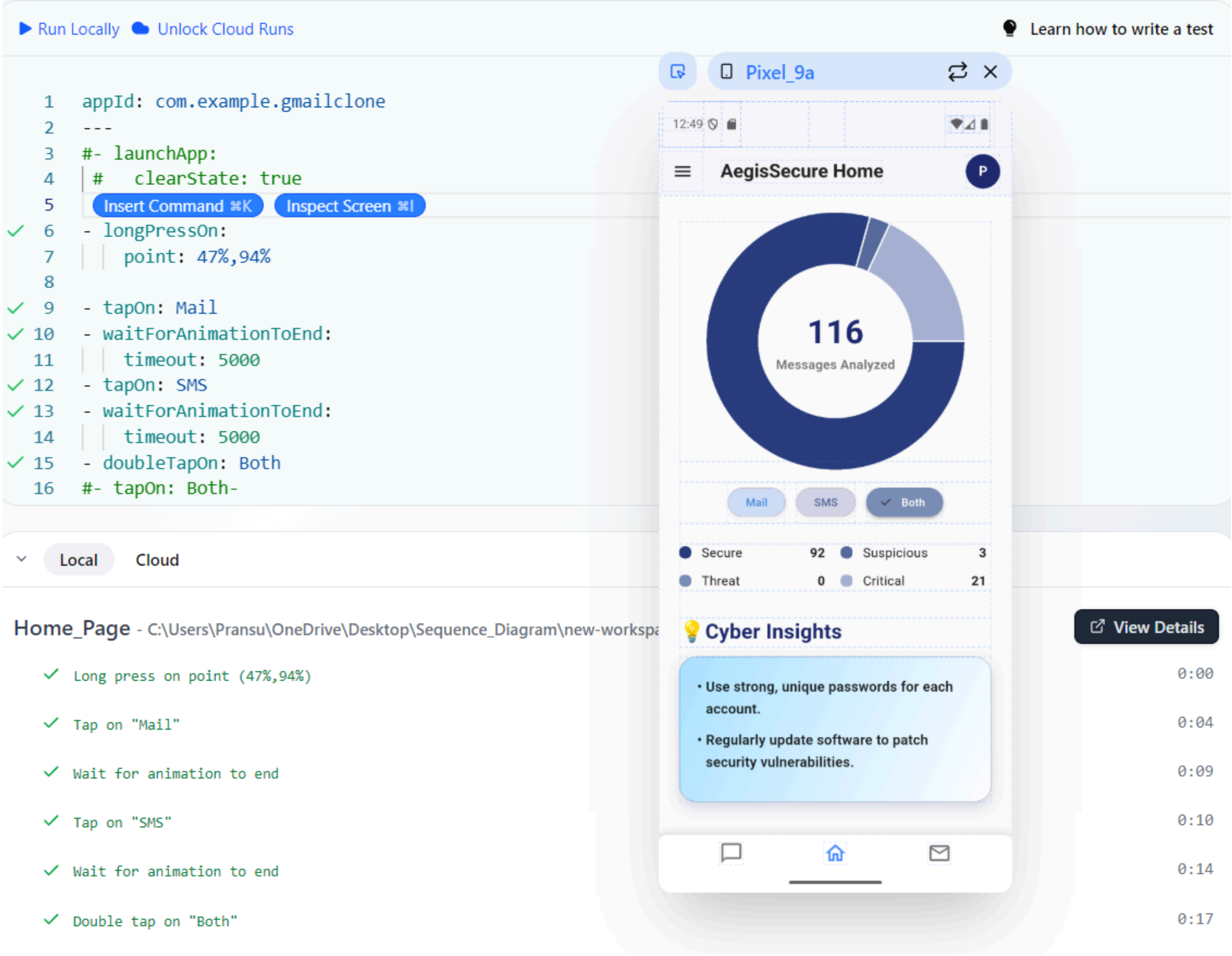
```
    clearState: true
- waitForAnimationToEnd:
    timeout: 20000
- tapOn: Forgot Password?
- tapOn: Email
- inputText: "pvadsmiya@gmail.com"
- tapOn: Send OTP

# If want to go back
- tapOn:
    point: 1%,6%
```

```
✓ Tap on "Forgot Password?"
✓ Tap on "Email"
✓ Input text pvadsmiya@gmail.com
✓ Tap on "Send OTP"
✓ Tap on point (1%,6%)
                                    0:11
```

- The “Forgot Password?” button opened the correct password-reset screen.
- The email field accepted the user’s input without any problems.
- The back action (double tap/tap on the top-left/back area) worked correctly.
- After going back, the app returned safely to the main Sign-In page.
- This shows that the back-navigation from the Forgot Password screen works properly and the user can return without completing the reset.

Home Page

1.Analysis Page



```
appId: com.example.gmailclone
---
#- launchApp:
#   clearState: true

- longPressOn:
    point: 47%,94%

- tapOn: Mail
- waitForAnimationToEnd:
    timeout: 5000
- tapOn: SMS
- waitForAnimationToEnd:
    timeout: 5000
- doubleTapOn: Both
#- tapOn: Both-
```

● Secure	92	● Suspicious	3
● Threat	0	● Critical	21

💡 Cyber Insights

- Use strong, unique passwords for each account.
- Regularly update software to patch security vulnerabilities.

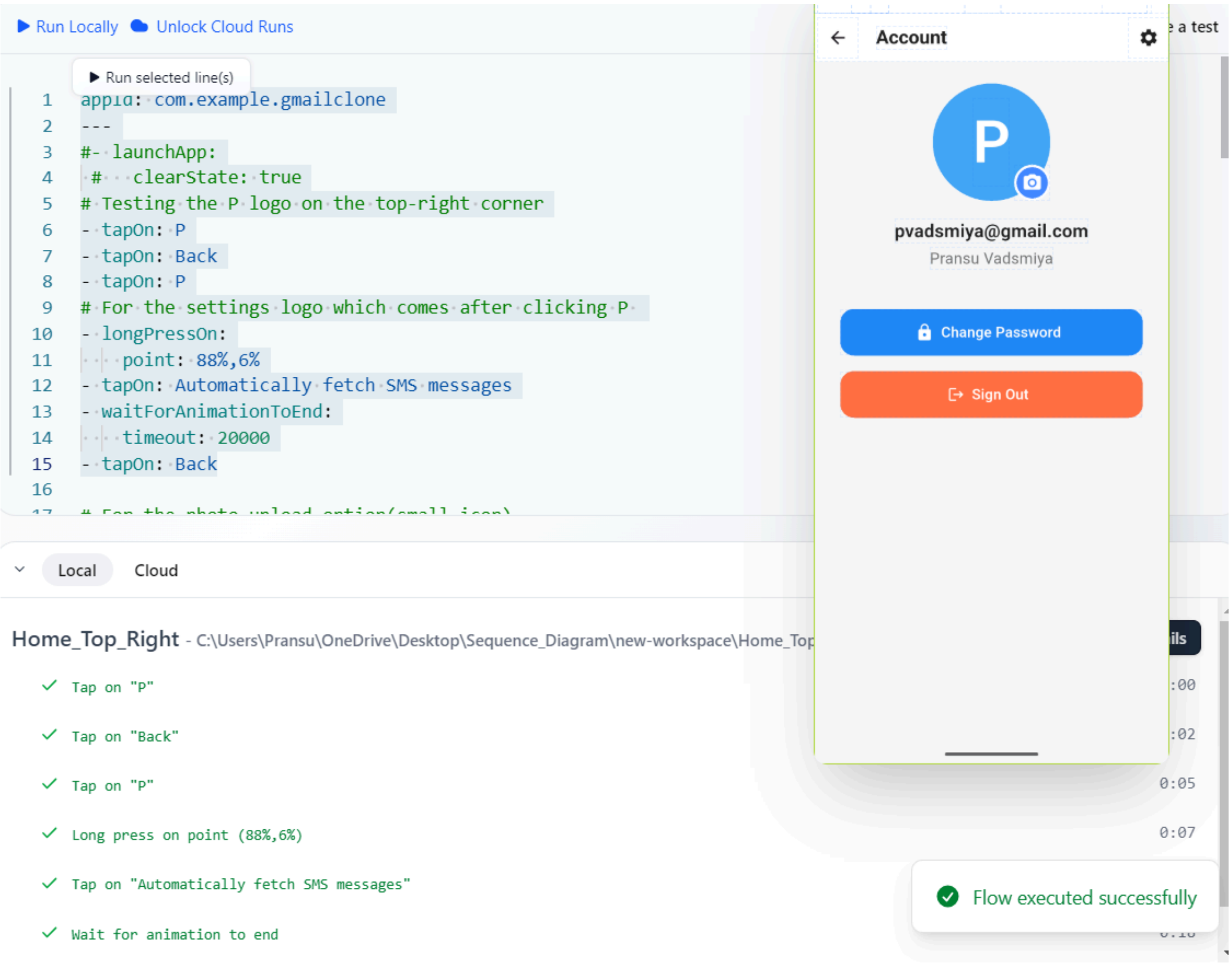
Home_Page - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspa

```
✓ Long press on point (47%,94%)          0:00
✓ Tap on "Mail"                          0:04
✓ Wait for animation to end              0:09
✓ Tap on "SMS"                           0:10
✓ Wait for animation to end              0:14
✓ Double tap on "Both"                   0:17
```

- The Home Page loaded correctly and all visible elements appeared as expected.
- The “Mail,” “SMS,” and “Both” filter buttons were active and responded instantly when tapped.
- The long-press and double-tap actions were recognized successfully on the Home Page.
- The UI updated properly after each interaction, confirming that the Home Page is fully functional, responsive, and stable.

Home Page (Top Right)

1.Settings



```
appid: com.example.gmailclone
---
#- launchApp:
#   clearState: true
# Testing the P logo on the top-right corner
- tapOn: P
- tapOn: Back
- tapOn: P
# For the settings logo which comes after clicking P
- longPressOn:
    point: 88%,6%
- tapOn: Automatically fetch SMS messages
- waitForAnimationToEnd:
    timeout: 20000
- tapOn: Back

# For the photo upload option(small icon)
```

Home_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Home_Top

```
✓ Tap on "P"                                    :00
✓ Tap on "Back"                                 :02
✓ Tap on "P"                                    0:05
✓ Long press on point (88%,6%)                  0:07
✓ Tap on "Automatically fetch SMS messages"
✓ Wait for animation to end                     0:10
```

Account

pvadsmiya@gmail.com

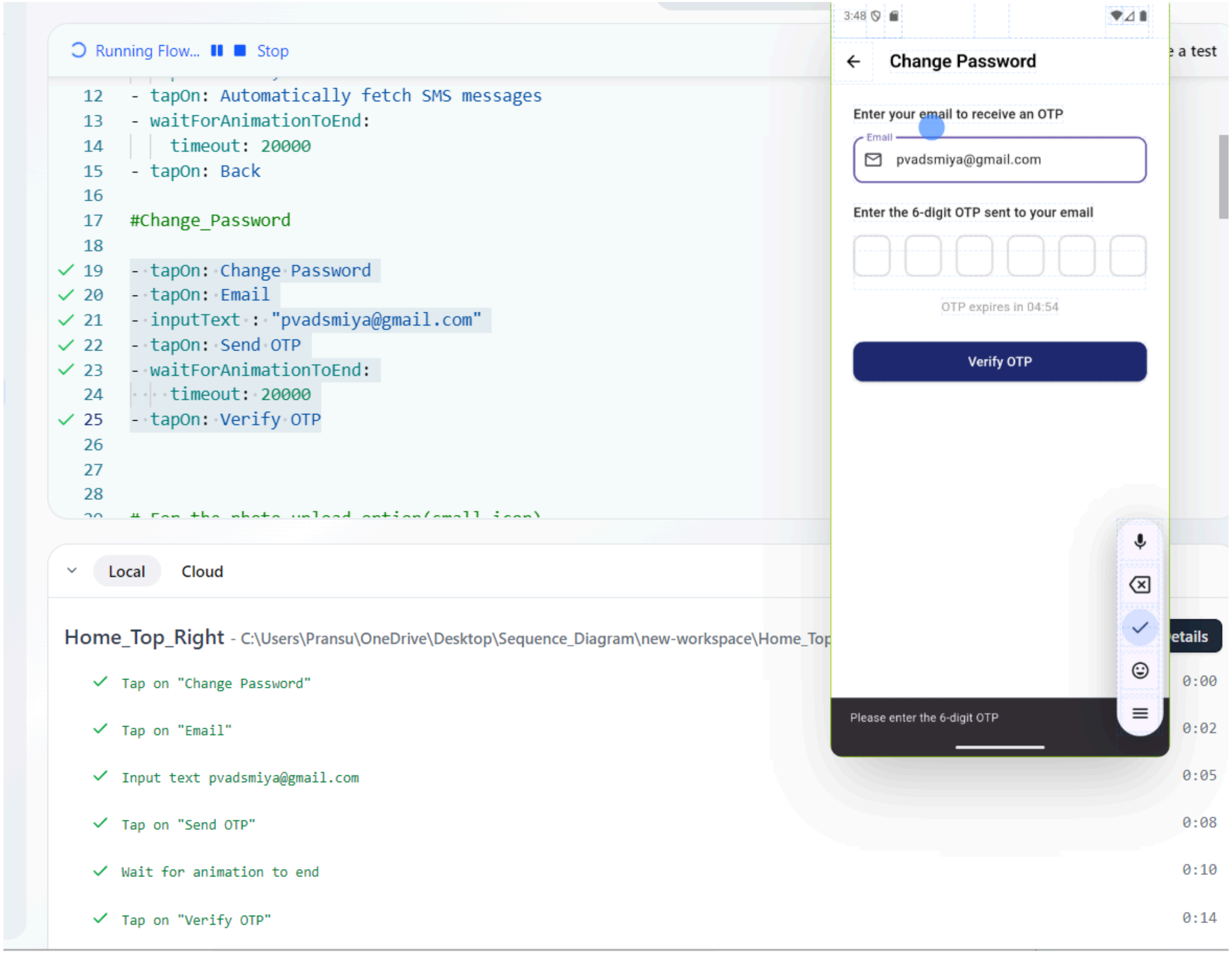
Pransu Vadsmiya

✓ Flow executed successfully

- Tapping the profile icon in the top-right corner opened the Account/Settings screen correctly.
- Inside the Settings tab, “Automatically fetch SMS messages,” was active and responded as expected.
- Navigation actions such as opening Settings and returning back worked smoothly.

- The interface remained responsive throughout, confirming that the top-right Settings section functions properly and consistently.

2.Change Password



```
- tapOn: Automatically fetch SMS messages
- waitForAnimationToEnd:
    timeout: 20000
- tapOn: Back

#Change_Password

- tapOn: Change Password
- tapOn: Email
- inputText : "pvadsmiya@gmail.com"
- tapOn: Send OTP
- waitForAnimationToEnd:
    timeout: 20000
- tapOn: Verify OTP



# For the photo upload option(small icon)
```

Change Password

Enter your email to receive an OTP

Email: pvadsmiya@gmail.com

Enter the 6-digit OTP sent to your email

OTP expires in 04:54

Verify OTP

Please enter the 6-digit OTP

```
Home_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Home_Top
✓ Tap on "Change Password"                    0:00
✓ Tap on "Email"                              0:02
✓ Input text pvadsmiya@gmail.com              0:05
✓ Tap on "Send OTP"                           0:08
✓ Wait for animation to end                   0:10
✓ Tap on "Verify OTP"                         0:14
```

- The “Change Password” option opened the password reset screen successfully.

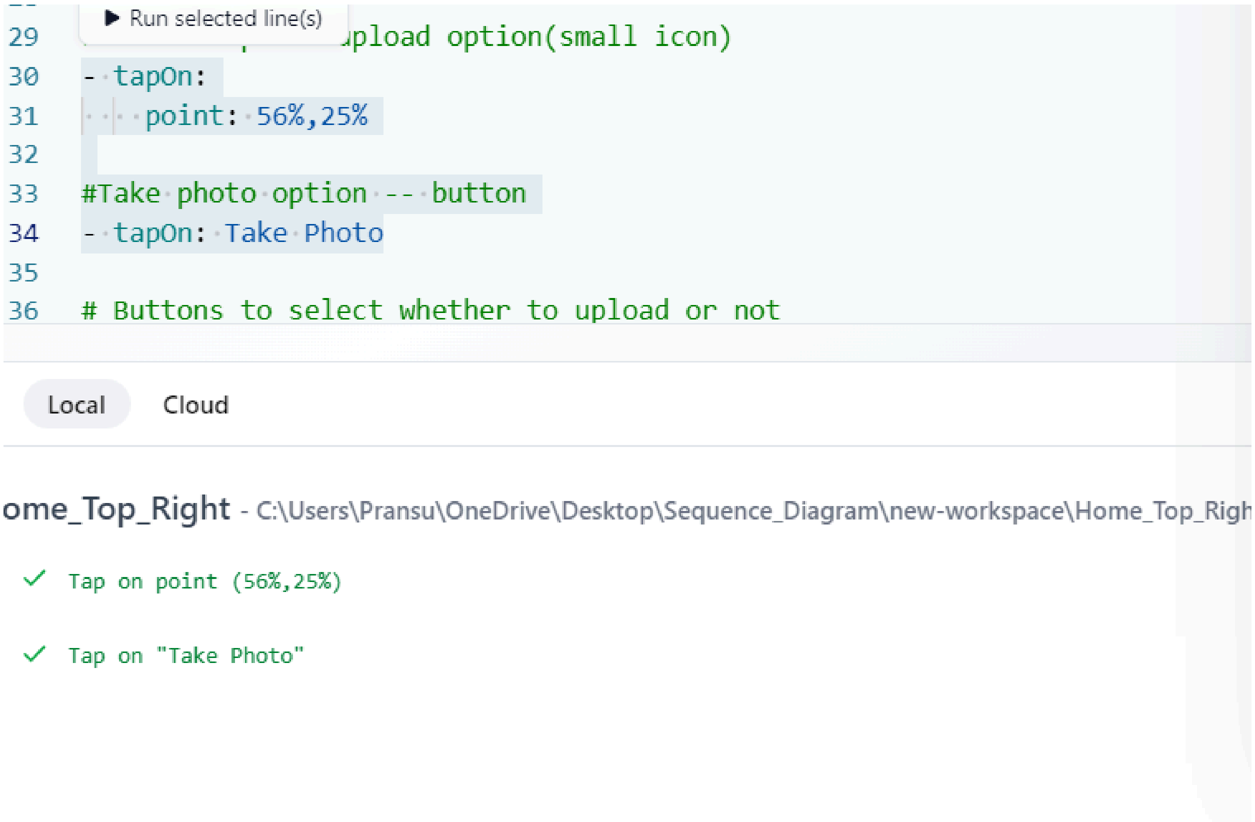
- The Email field accepted input correctly and without delay.

- The “Send OTP” button responded immediately and loaded the OTP verification section.

- The “Verify OTP” button was active and clickable on the verification screen.

- Overall, the Change Password flow functioned smoothly, and all UI elements behaved as expected.

3.Taking photo



```
                    upload option(small icon)
- tapOn:
    point: 56%,25%

#Take photo option -- button
- tapOn: Take Photo

# Buttons to select whether to upload or not
```

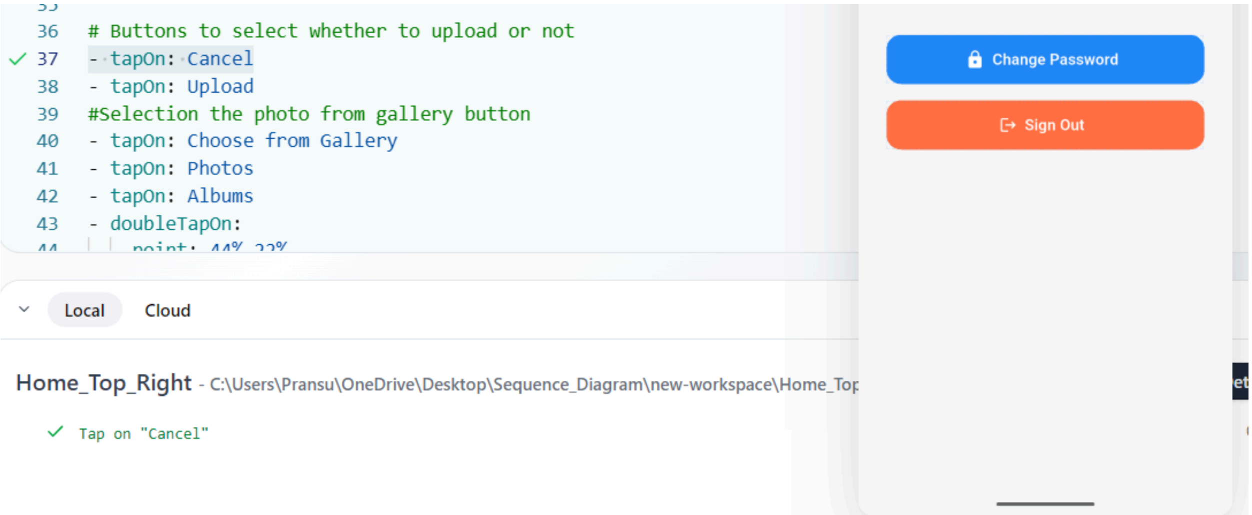
ome_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Home_Top_Righ

```
✓ Tap on point (56%,25%)

✓ Tap on "Take Photo"
```

- The double-tap action at the specified screen position (56%, 25%) worked correctly and successfully opened the photo options menu.

- The “Take Photo” option responded immediately when tapped, confirming that the menu interaction and button functionality are working as expected.

4. Cancelling the taken photo



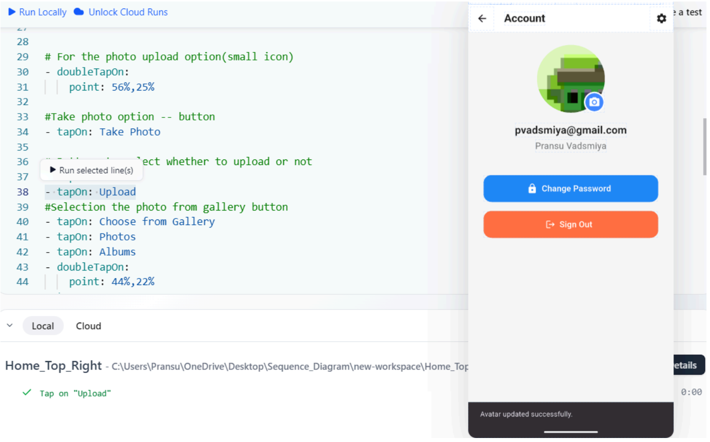
```
# Buttons to select whether to upload or not
- tapOn: Cancel
- tapOn: Upload
#Selection the photo from gallery button
- tapOn: Choose from Gallery
- tapOn: Photos
- tapOn: Albums
- doubleTapOn:
    point: 44%,22%
```

Home_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Home_Top

✓ Tap on "Cancel"

- Tapping the “Cancel” button worked correctly and dismissed the photo upload options.
- The app returned to the previous screen smoothly, confirming that the cancel action is responsive and functioning as intended.

5.Uploading the photo taken



```

# For the photo upload option(small icon)
- doubleTapOn:
    point: 56%,25%

#Take photo option -- button
- tapOn: Take Photo

# Buttons to select whether to upload or not

- tapOn: Upload
#Selection the photo from gallery button
- tapOn: Choose from Gallery
- tapOn: Photos
- tapOn: Albums
- doubleTapOn:
    point: 44%,22%
```

Home_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Home_Top

✓ Tap on "Upload"

pvadsmiya@gmail.com

Pransu Vadsmiya

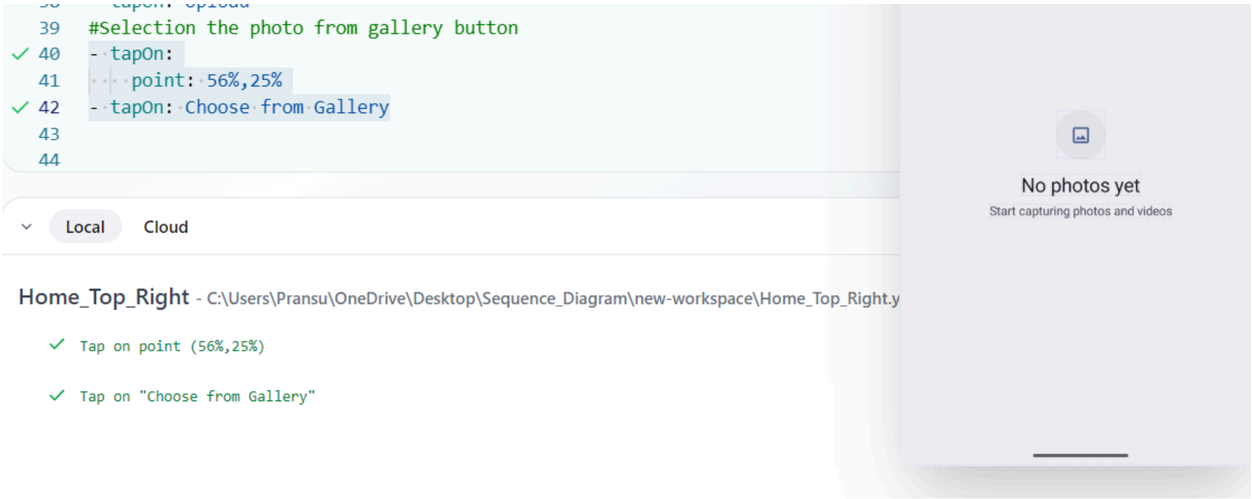
Avatar updated successfully.

- The “Upload” button responded correctly when tapped.

- The selected photo was uploaded successfully, and the profile avatar updated immediately.

- This confirms that the photo upload functionality works smoothly and behaves as expected.

6. Checking the select from gallery button



```
#Selection the photo from gallery button
- tapOn:
    point: 56%,25%
- tapOn: Choose from Gallery
```

Home_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Home_Top_Right.y

✓ Tap on point (56%,25%)

✓ Tap on "Choose from Gallery"

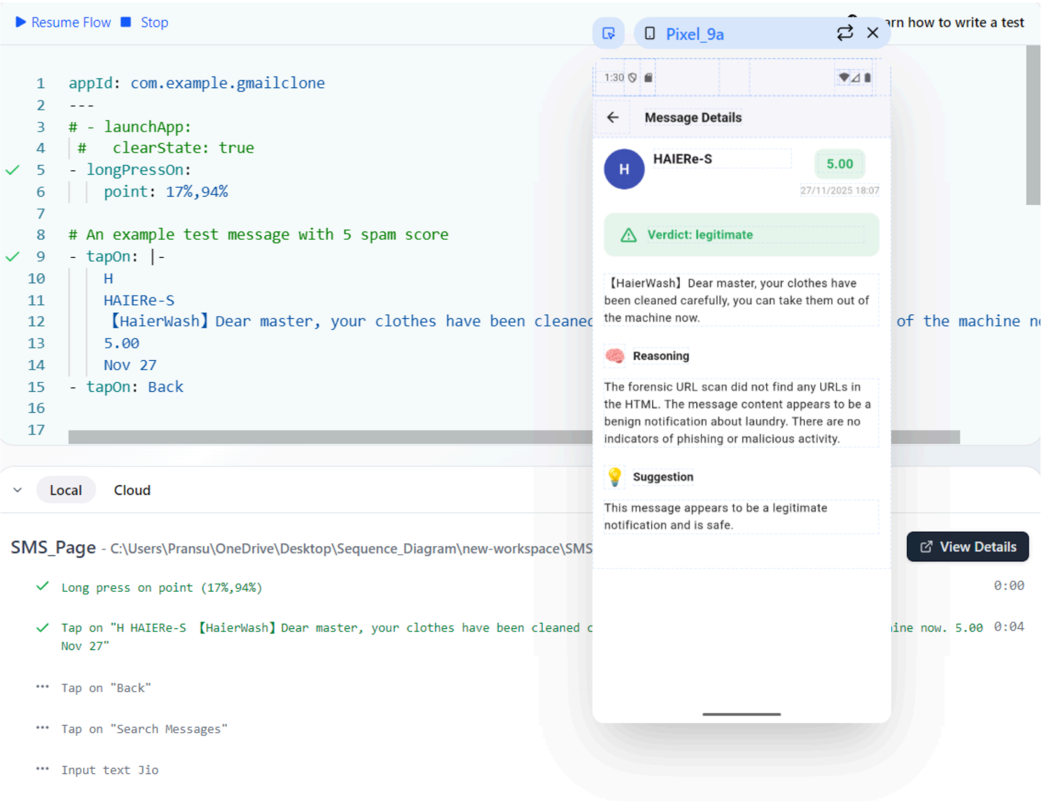
- The double-tap action successfully opened the photo selection options.

- Tapping on “Choose from Gallery” worked correctly and opened the device’s gallery screen.

- The gallery interface loaded properly, confirming that the gallery selection feature is fully functional.

SMS Page

1.Checking if SMS opens :



```
appId: com.example.gmailclone
---
# - launchApp:
#   clearState: true
- longPressOn:
    point: 17%,94%

# An example test message with 5 spam score
- tapOn: |-
    H
    HAIERe-S
    【HaierWash】Dear master, your clothes have been cleanec                 of the machine n
    5.00
    Nov 27
- tapOn: Back


```

1:30

Message Details

H HAIERe-S 5.00

27/11/2025 18:07

Verdict: legitimate

【HaierWash】Dear master, your clothes have been cleaned carefully, you can take them out of the machine now.

Reasoning

The forensic URL scan did not find any URLs in the HTML. The message content appears to be a benign notification about laundry. There are no indicators of phishing or malicious activity.

Suggestion

This message appears to be a legitimate notification and is safe.

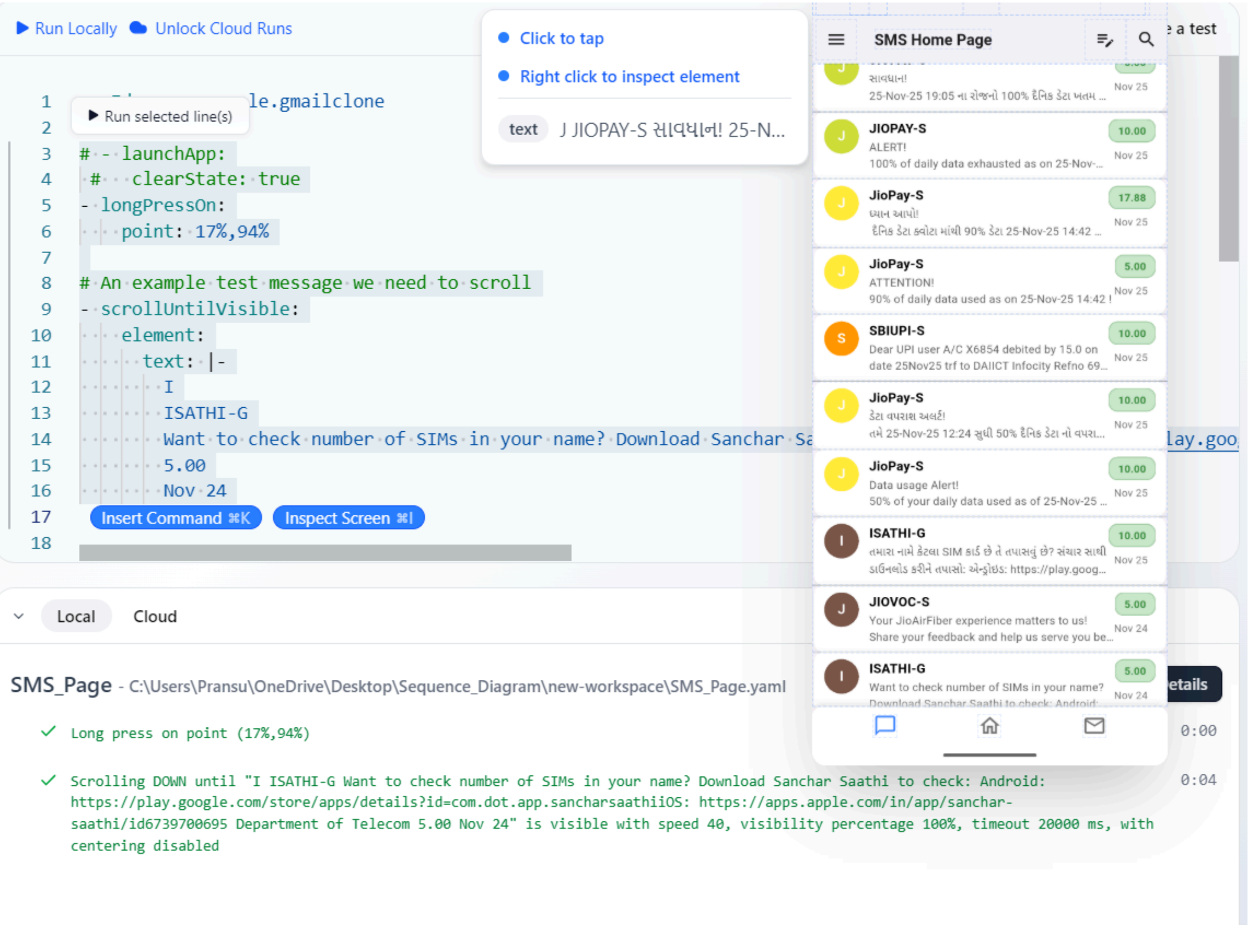
SMS_Page - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\SMS

```
✓ Long press on point (17%,94%)                                                     0:00
✓ Tap on "H HAIERe-S 【HaierWash】Dear master, your clothes have been cleaned c        ine now. 5.00  0:04
  Nov 27"
··· Tap on "Back"
··· Tap on "Search Messages"
··· Input text Jio
```

- The long-press action correctly selected the SMS from the list.

- The chosen SMS opened successfully, and all message details were displayed without delay.

- The UI inside the SMS details screen was fully responsive, confirming that SMS messages open and load correctly as expected.



J JIOPAY-S સાવધાન! 25-N...

```
             le.gmailclone

# - launchApp:
 #   clearState: true
- longPressOn:
    point: 17%,94%

# An example test message we need to scroll
- scrollUntilVisible:
    element:
      text: |-
        I
        ISATHI-G
        Want to check number of SIMs in your name? Download Sanchar Sa                    lay.goo
        5.00
        Nov 24
```

SMS Home Page

સાવધાન! 25-Nov-25 19:05 ના રોજનો 100% દૈનિક ડેટા ખતમ ...		Nov 25
JIOPAY-S ALERT! 100% of daily data exhausted as on 25-Nov-...	10.00	Nov 25
JioPay-S ધ્યાન આપો! દૈનિક ડેટા ક્વોટા માંથી 90% ડેટા 25-Nov-25 14:42 ...	17.88	Nov 25
JioPay-S ATTENTION! 90% of daily data used as on 25-Nov-25 14:42 !	5.00	Nov 25
SBIUPI-S Dear UPI user A/C X6854 debited by 15.0 on date 25Nov25 trf to DAIICT Infocity Refno 69...	10.00	Nov 25
JioPay-S ડેટા વપરાશ અલર્ટ! તમે 25-Nov-25 12:24 સુધી 50% દૈનિક ડેટા નો વપરા...	10.00	Nov 25
JioPay-S Data usage Alert! 50% of your daily data used as of 25-Nov-25 ...	10.00	Nov 25
ISATHI-G તમારા નામે કેટલા SIM કાર્ડ છે તે તપાસવું છે? સંચાર સાથી ડાઉનલોડ કરીને તપાસો: એન્ડ્રોઇડ: https://play.goog...	10.00	Nov 25
JIOVOC-S Your JioAirFiber experience matters to us! Share your feedback and help us serve you be...	5.00	Nov 24
ISATHI-G Want to check number of SIMs in your name? Download Sanchar Saathi to check: Android:	5.00	Nov 24

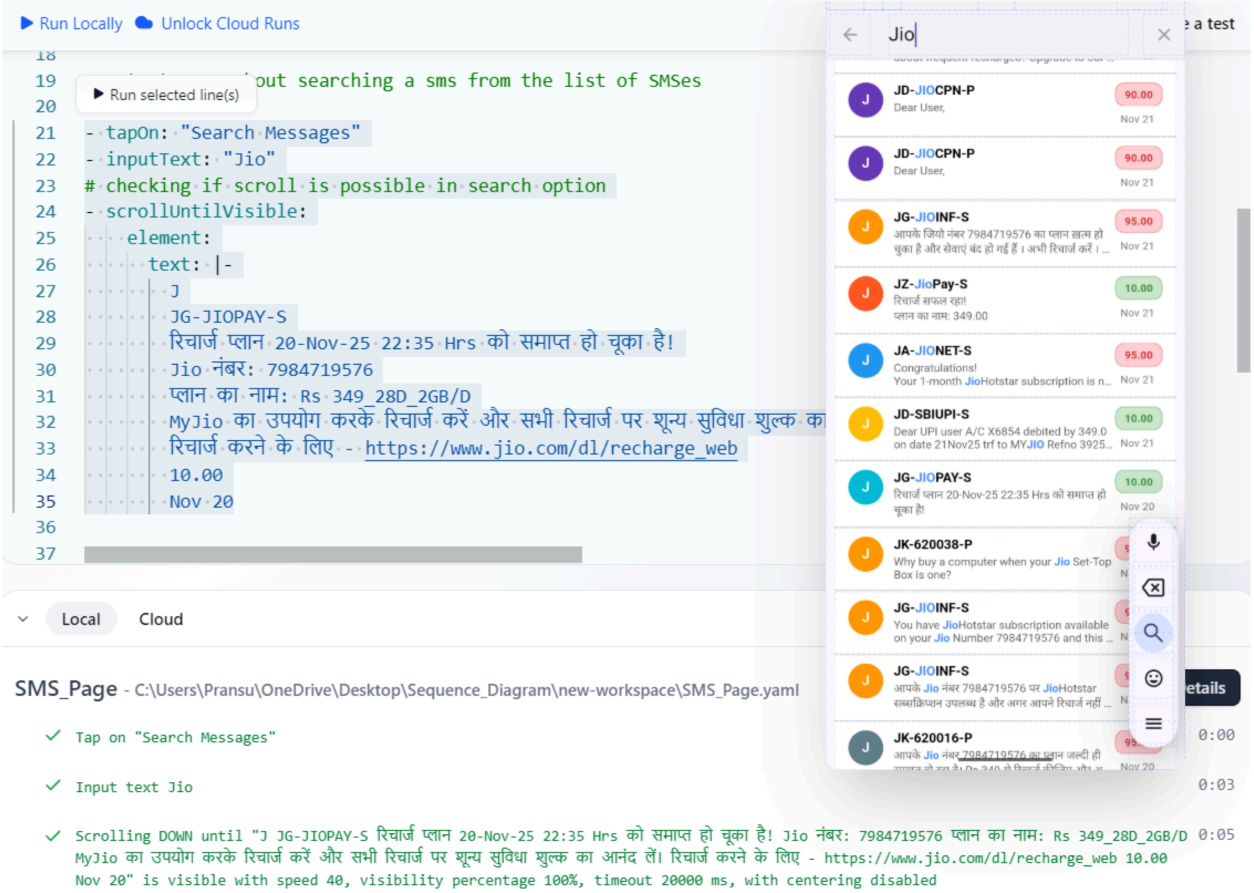
SMS_Page - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\SMS_Page.yaml

```
✓ Long press on point (17%,94%)                                                                    0:00

✓ Scrolling DOWN until "I ISATHI-G Want to check number of SIMs in your name? Download Sanchar Saathi to check: Android:    0:04
  https://play.google.com/store/apps/details?id=com.dot.app.sancharsaathiiOS: https://apps.apple.com/in/app/sanchar-
  saathi/id6739700695 Department of Telecom 5.00 Nov 24" is visible with speed 40, visibility percentage 100%, timeout 20000 ms, with
  centering disabled
```

- The scroll action worked correctly, moving down the list until the target SMS became visible.

- The target message appeared after scrolling, confirming that the SMS list is fully scrollable and responsive.

2. Checking if Search bar is responsive:



```
                out searching a sms from the list of SMSes

- tapOn: "Search Messages"
- inputText: "Jio"
# checking if scroll is possible in search option
- scrollUntilVisible:
    element:
      text: |-
        J
        JG-JIOPAY-S
        रिचार्ज प्लान 20-Nov-25 22:35 Hrs को समाप्त हो चूका है!
        Jio नंबर: 7984719576
        प्लान का नाम: Rs 349_28D_2GB/D
        MyJio का उपयोग करके रिचार्ज करें और सभी रिचार्ज पर शून्य सुविधा शुल्क का
        रिचार्ज करने के लिए - https://www.jio.com/dl/recharge_web
        10.00
        Nov 20
```

SMS_Page - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\SMS_Page.yaml

```
✓ Tap on "Search Messages"                                                          0:00

✓ Input text Jio                                                                    0:03

✓ Scrolling DOWN until "J JG-JIOPAY-S रिचार्ज प्लान 20-Nov-25 22:35 Hrs को समाप्त हो चूका है! Jio नंबर: 7984719576 प्लान का नाम: Rs 349_28D_2GB/D  0:05
  MyJio का उपयोग करके रिचार्ज करें और सभी रिचार्ज पर शून्य सुविधा शुल्क का आनंद लें। रिचार्ज करने के लिए - https://www.jio.com/dl/recharge_web 10.00
  Nov 20" is visible with speed 40, visibility percentage 100%, timeout 20000 ms, with centering disabled
```

Jio

JD-JIOCPN-P Dear User,	90.00	Nov 21
JD-JIOCPN-P Dear User,	90.00	Nov 21
JG-JIOINF-S आपके जियो नंबर 7984719576 का प्लान ख़त्म हो चुका है और सेवाएं बंद हो गई हैं। अभी रिचार्ज करें। ...	95.00	Nov 21
JZ-JioPay-S रिचार्ज सफल रहा! प्लान का नाम: 349.00	10.00	Nov 21
JA-JIONET-S Congratulations! Your 1-month JioHotstar subscription is n...	95.00	Nov 21
JD-SBIUPI-S Dear UPI user A/C X6854 debited by 349.0 on date 21Nov25 trf to MYJIO Refno 3925...	10.00	Nov 21
JG-JIOPAY-S रिचार्ज प्लान 20-Nov-25 22:35 Hrs को समाप्त हो चूका है!	10.00	Nov 20
JK-620038-P Why buy a computer when your Jio Set-Top Box is one?		
JG-JIOINF-S You have JioHotstar subscription available on your Jio Number 7984719576 and this ...		
JG-JIOINF-S आपके Jio नंबर 7984719576 पर JioHotstar सब्सक्रिप्शन उपलब्ध है और अगर आपने रिचार्ज नहीं ...		
JK-620016-P आपके Jio नंबर 7984719576 का प्लान जल्दी ही	95.	Nov 20

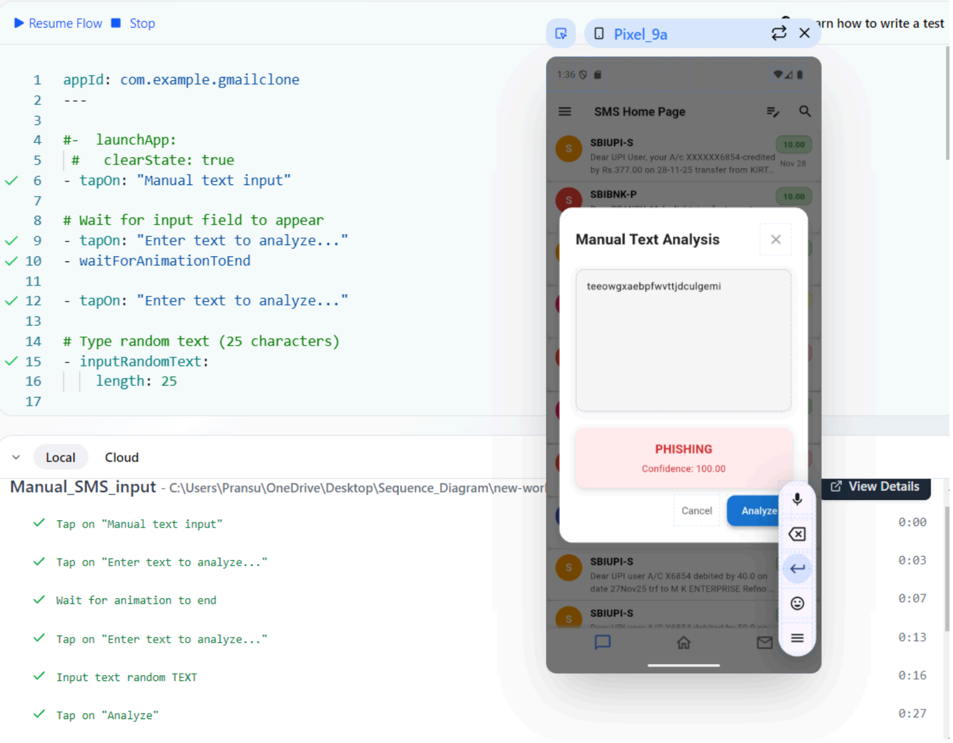
- The search bar accepted the input (“Jio”) correctly and filtered the SMS list instantly.

- The scroll action worked within the search results, successfully finding the target SMS.

- The filtered list remained responsive while scrolling, confirming that both the search functionality and scroll behavior work properly.

Manual Text Input

1.Entering some random text input



```
appId: com.example.gmailclone
---

#-  launchApp:
 #   clearState: true
- tapOn: "Manual text input"

# Wait for input field to appear
- tapOn: "Enter text to analyze..."
- waitForAnimationToEnd

- tapOn: "Enter text to analyze..."

# Type random text (25 characters)
- inputRandomText:
    length: 25

```

Manual_SMS_input - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-wor

```
✓ Tap on "Manual text input"                 0:00
✓ Tap on "Enter text to analyze..."          0:03
✓ Wait for animation to end                  0:07
✓ Tap on "Enter text to analyze..."          0:13
✓ Input text random TEXT                     0:16
✓ Tap on "Analyze"                           0:27
```

Dear UPI User, your A/c XXXXXX6854-credited by Rs.377.00 on 28-11-25 transfer from KIRT...

Dear UPI user A/C X6854 debited by 40.0 on date 27Nov25 trf to M K ENTERPRISE Refno ...

Manual Text Analysis

teeowgxaebpfwvttjdculgemi

PHISHING
Confidence: 100.00

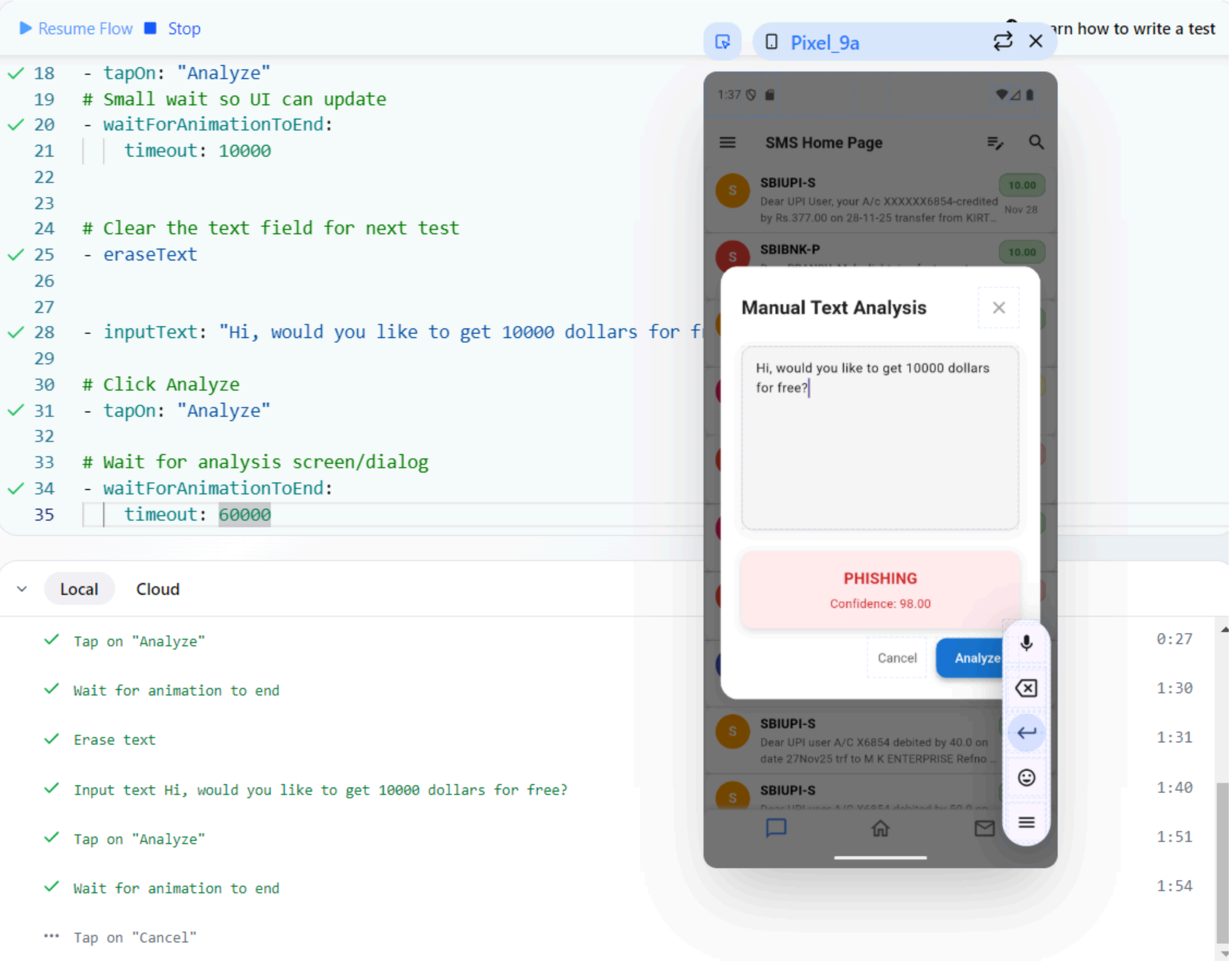
- The “Manual text input” option opened correctly and displayed the text analysis dialog.

- The input field responded and accepted randomly generated text without any issues.

- Tapping the “Analyze” button worked properly, and the system generated a phishing analysis result instantly.

- This confirms that manual text entry and analysis functionalities are fully responsive and working as expected.

2.Entering meaningful text input :



```
- tapOn: "Analyze"
# Small wait so UI can update
- waitForAnimationToEnd:
    timeout: 10000


# Clear the text field for next test
- eraseText


- inputText: "Hi, would you like to get 10000 dollars for f

# Click Analyze
- tapOn: "Analyze"

# Wait for analysis screen/dialog
- waitForAnimationToEnd:
    timeout: 60000
```

```
✓ Tap on "Analyze"                                         0:27
✓ Wait for animation to end                                1:30
✓ Erase text                                               1:31
✓ Input text Hi, would you like to get 10000 dollars for free?   1:40
✓ Tap on "Analyze"                                         1:51
✓ Wait for animation to end                                1:54
··· Tap on "Cancel"
```

1:37

SMS Home Page

SBIUPI-S
Dear UPI User, your A/c XXXXXX6854-credited by Rs.377.00 on 28-11-25 transfer from KIRT...
10.00
Nov 28

SBIBNK-P
10.00

Manual Text Analysis

Hi, would you like to get 10000 dollars for free?

PHISHING
Confidence: 98.00

Cancel
Analyze

SBIUPI-S
Dear UPI user A/C X6854 debited by 40.0 on date 27Nov25 trf to M K ENTERPRISE Refno ...

SBIUPI-S

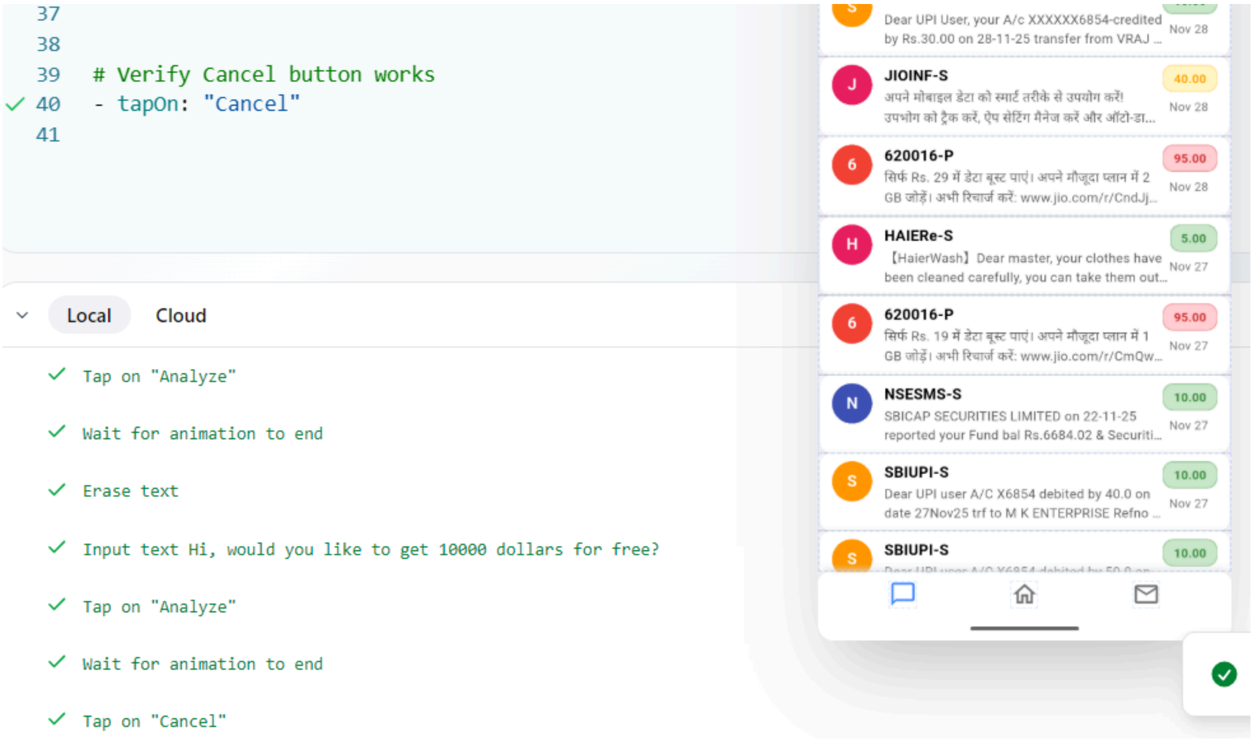
- The input field was cleared successfully and accepted the meaningful text without any issues.

- The “Analyze” button responded correctly and triggered the text analysis process.

- The analysis result appeared smoothly, identifying the message as phishing with a high confidence score.

- This confirms that meaningful text input and analysis functionalities are fully responsive and working as intended.

3. Checking the cancel button



```
# Verify Cancel button works
- tapOn: "Cancel"
```

- ✓ Tap on "Analyze"
- ✓ Wait for animation to end
- ✓ Erase text
- ✓ Input text Hi, would you like to get 10000 dollars for free?
- ✓ Tap on "Analyze"
- ✓ Wait for animation to end
- ✓ Tap on "Cancel"

Dear UPI User, your A/c XXXXXX6854-credited by Rs.30.00 on 28-11-25 transfer from VRAJ ... Nov 28

JIOINF-S 40.00
अपने मोबाइल डेटा को स्मार्ट तरीके से उपयोग करें! उपभोग को ट्रैक करें, ऐप सेटिंग मैनेज करें और ऑटो-डा... Nov 28

620016-P 95.00
सिर्फ Rs. 29 में डेटा बूस्ट पाएं। अपने मौजूदा प्लान में 2 GB जोड़ें। अभी रिचार्ज करें: www.jio.com/r/CndJj... Nov 28

HAIERe-S 5.00
【HaierWash】Dear master, your clothes have been cleaned carefully, you can take them out... Nov 27

620016-P 95.00
सिर्फ Rs. 19 में डेटा बूस्ट पाएं। अपने मौजूदा प्लान में 1 GB जोड़ें। अभी रिचार्ज करें: www.jio.com/r/CmQw... Nov 27

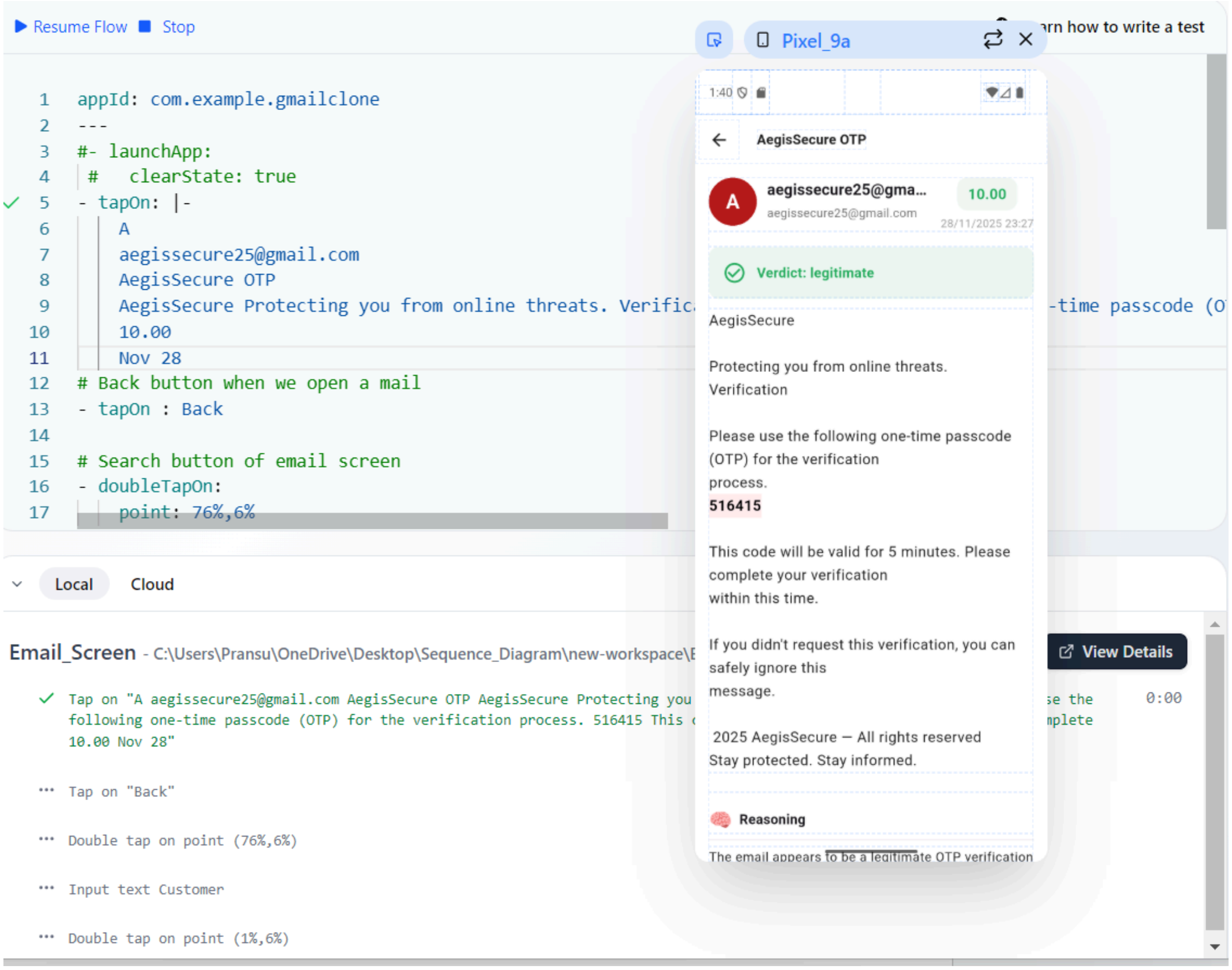
NSESMS-S 10.00
SBICAP SECURITIES LIMITED on 22-11-25 reported your Fund bal Rs.6684.02 & Securiti... Nov 27

SBIUPI-S 10.00
Dear UPI user A/C X6854 debited by 40.0 on date 27Nov25 trf to M K ENTERPRISE Refno ... Nov 27

SBIUPI-S 10.00

- The “Cancel” button responded immediately when tapped.
- The manual text analysis dialog closed successfully and returned to the SMS list view.
- This confirms that the Cancel button is fully functional and performs the expected dismissal action

Email



```
appId: com.example.gmailclone
---
#- launchApp:
#   clearState: true
- tapOn: |-
    A
    aegissecure25@gmail.com
    AegisSecure OTP
    AegisSecure Protecting you from online threats. Verific                    -time passcode (O
    10.00
    Nov 28
# Back button when we open a mail
- tapOn : Back

# Search button of email screen
- doubleTapOn:
    point: 76%,6%
```

1:40

AegisSecure OTP

A aegissecure25@gma… aegissecure25@gmail.com 10.00 28/11/2025 23:27

Verdict: legitimate

AegisSecure

Protecting you from online threats.
Verification

Please use the following one-time passcode
(OTP) for the verification
process.
516415

This code will be valid for 5 minutes. Please
complete your verification
within this time.

If you didn't request this verification, you can
safely ignore this
message.

2025 AegisSecure — All rights reserved
Stay protected. Stay informed.

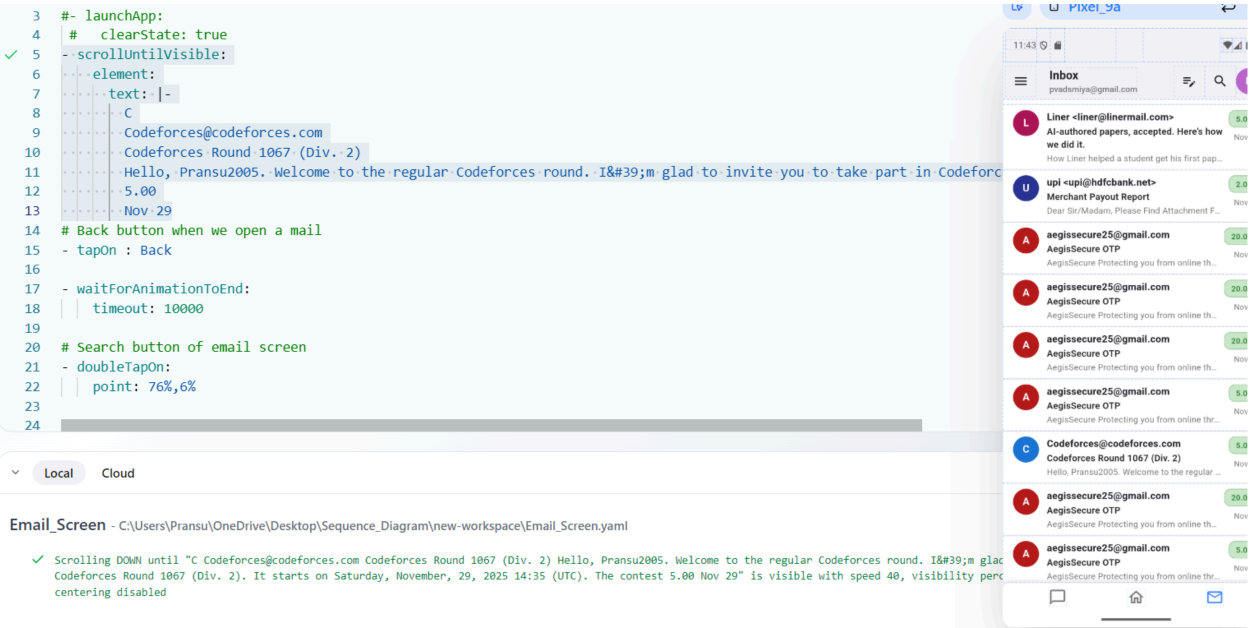
Reasoning

The email appears to be a legitimate OTP verification

Email_Screen - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\E

```
✓ Tap on "A aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you                    se the    0:00
  following one-time passcode (OTP) for the verification process. 516415 This c                   mplete
  10.00 Nov 28"

… Tap on "Back"

… Double tap on point (76%,6%)

… Input text Customer

… Double tap on point (1%,6%)
```

- The selected email opened correctly and displayed all details without delay.
- The Back button responded properly and returned to the email list screen.
- The search icon on the email screen was detected and reacted instantly to the double-tap action.
- These actions confirm that the email view and its navigation elements are fully functional and responsive.



```yaml
#- launchApp:
#   clearState: true
- scrollUntilVisible:
    element:
      text: |-
        C
        Codeforces@codeforces.com
        Codeforces Round 1067 (Div. 2)
        Hello, Pransu2005. Welcome to the regular Codeforces round. I&#39;m glad to invite you to take part in Codeforc
        5.00
        Nov 29
# Back button when we open a mail
- tapOn : Back

- waitForAnimationToEnd:
    timeout: 10000

# Search button of email screen
- doubleTapOn:
    point: 76%,6%
```

Email_Screen - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Email_Screen.yaml

```
✓ Scrolling DOWN until "C Codeforces@codeforces.com Codeforces Round 1067 (Div. 2) Hello, Pransu2005. Welcome to the regular Codeforces round. I&#39;m glac
  Codeforces Round 1067 (Div. 2). It starts on Saturday, November, 29, 2025 14:35 (UTC). The contest 5.00 Nov 29" is visible with speed 40, visibility perc
  centering disabled
```

Liner <liner@linermail.com> AI-authored papers, accepted. Here's how we did it. How Liner helped a student get his first pap... 5.0 Nov

upi <upi@hdfcbank.net> Merchant Payout Report Dear Sir/Madam, Please Find Attachment F... 2.0 Nov

aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online th... 20.0 Nov

aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online th... 20.0 Nov

aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online th... 20.0 Nov

aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online thr... 5.0 Nov

Codeforces@codeforces.com Codeforces Round 1067 (Div. 2) Hello, Pransu2005. Welcome to the regular ... 5.0 Nov

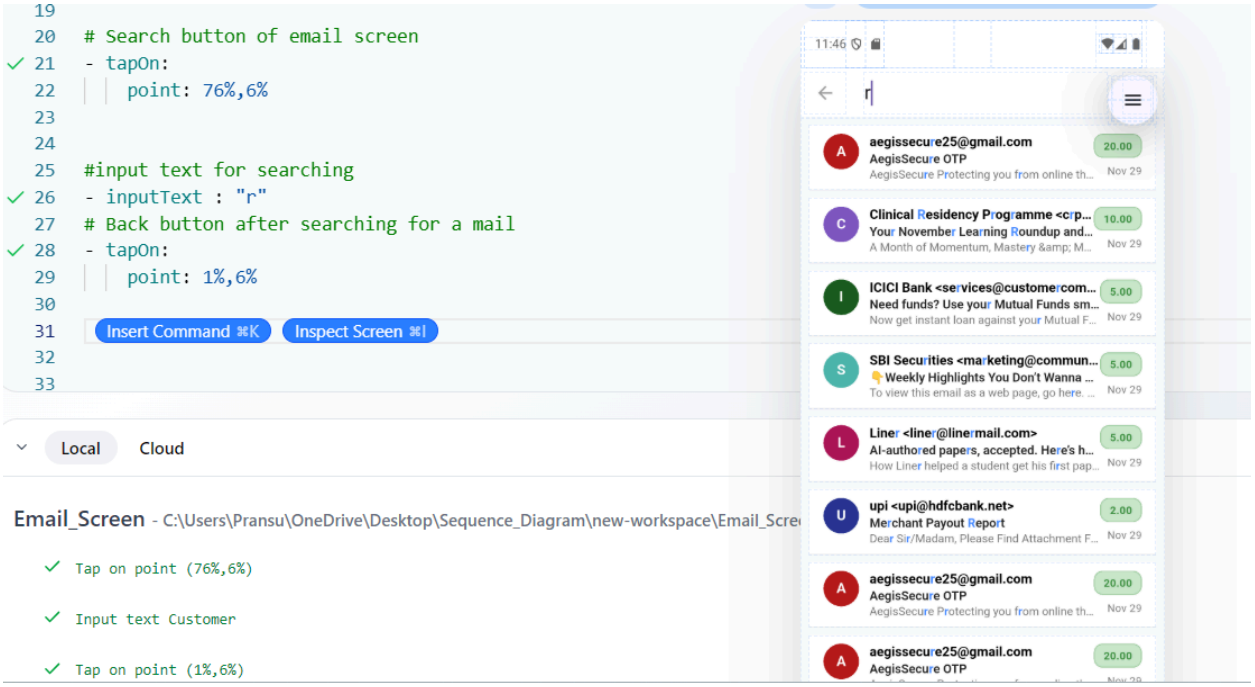
aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online th... 20.0 Nov

aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online thr... 5.0 Nov

- The scrolling functionality on the Email screen worked correctly and was able to locate the target email even when it was partially off-screen.

- The test successfully identified the Codeforces mail by matching its subject, sender, and content snippets.

- The back navigation also responded as expected, returning to the inbox without errors.



```yaml
# Search button of email screen
- tapOn:
    point: 76%,6%


#input text for searching
- inputText : "r"
# Back button after searching for a mail
- tapOn:
    point: 1%,6%
```

Email_Screen - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspace\Email_Scre

```
✓ Tap on point (76%,6%)

✓ Input text Customer

✓ Tap on point (1%,6%)
```

aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online th... 20.00 Nov 29

Clinical Residency Programme <crp... Your November Learning Roundup and... A Month of Momentum, Mastery &amp; M... 10.00 Nov 29

ICICI Bank <services@customercom... Need funds? Use your Mutual Funds sm... Now get instant loan against your Mutual F... 5.00 Nov 29

SBI Securities <marketing@commun... 👇 Weekly Highlights You Don't Wanna ... To view this email as a web page, go here. ... 5.00 Nov 29

Liner <liner@linermail.com> AI-authored papers, accepted. Here's h... How Liner helped a student get his first pap... 5.00 Nov 29

upi <upi@hdfcbank.net> Merchant Payout Report Dear Sir/Madam, Please Find Attachment F... 2.00 Nov 29

aegissecure25@gmail.com AegisSecure OTP AegisSecure Protecting you from online th... 20.00 Nov 29

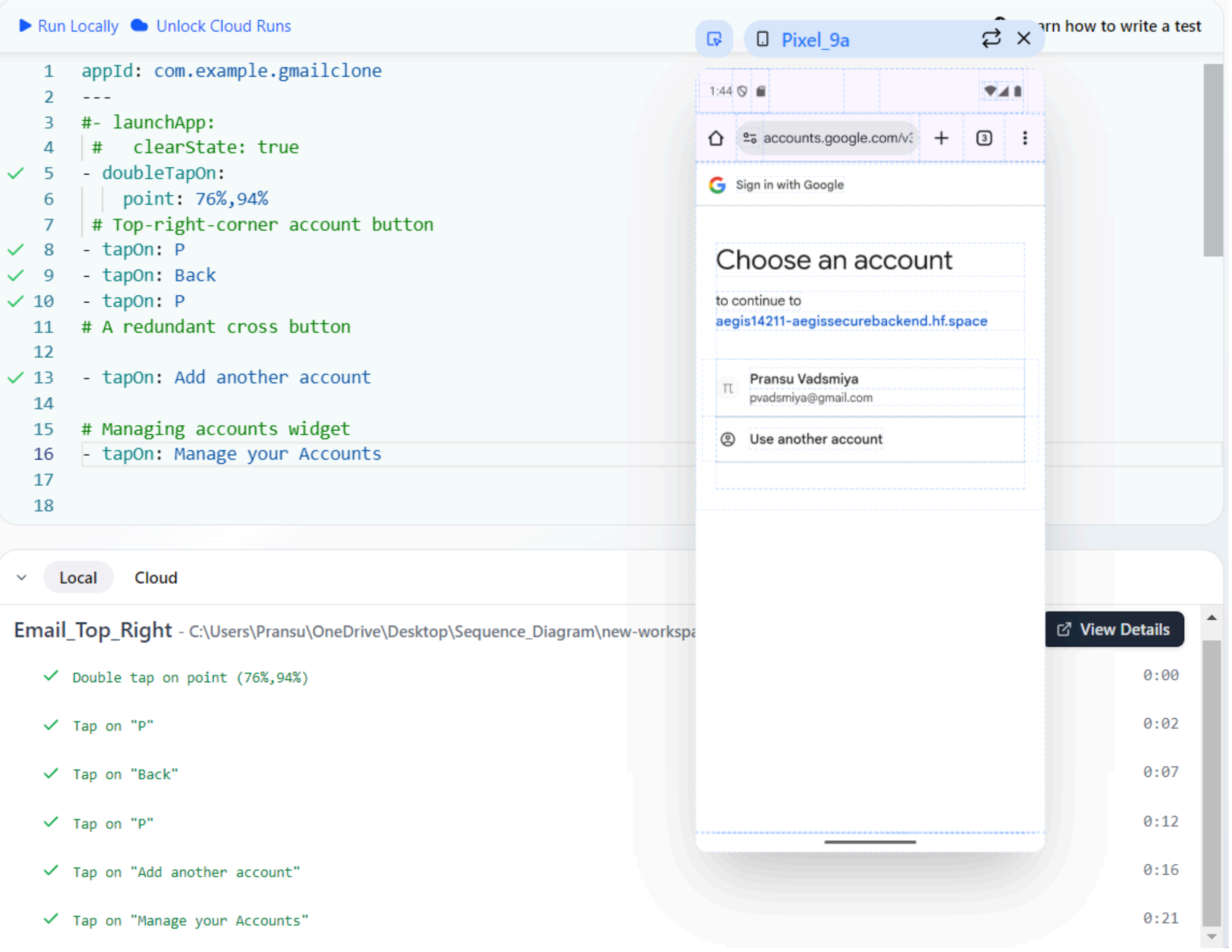
aegissecure25@gmail.com AegisSecure OTP 20.00

- The search button on the email screen responded correctly to the double-tap and opened the search bar.

- Entering the keyword **“r”** worked properly, and the system searched through the emails.

- The UI correctly displayed **“matching emails”**, confirming that the search function behaves accurately.

- The back button navigated back from the search screen without any issues.



```
appId: com.example.gmailclone
---
#- launchApp:
 #   clearState: true
- doubleTapOn:
    point: 76%,94%
 # Top-right-corner account button
- tapOn: P
- tapOn: Back
- tapOn: P
# A redundant cross button

- tapOn: Add another account

# Managing accounts widget
- tapOn: Manage your Accounts
```

Sign in with Google

Choose an account

to continue to
aegis14211-aegissecurebackend.hf.space

Pransu Vadsmiya
pvadsmiya@gmail.com

Use another account

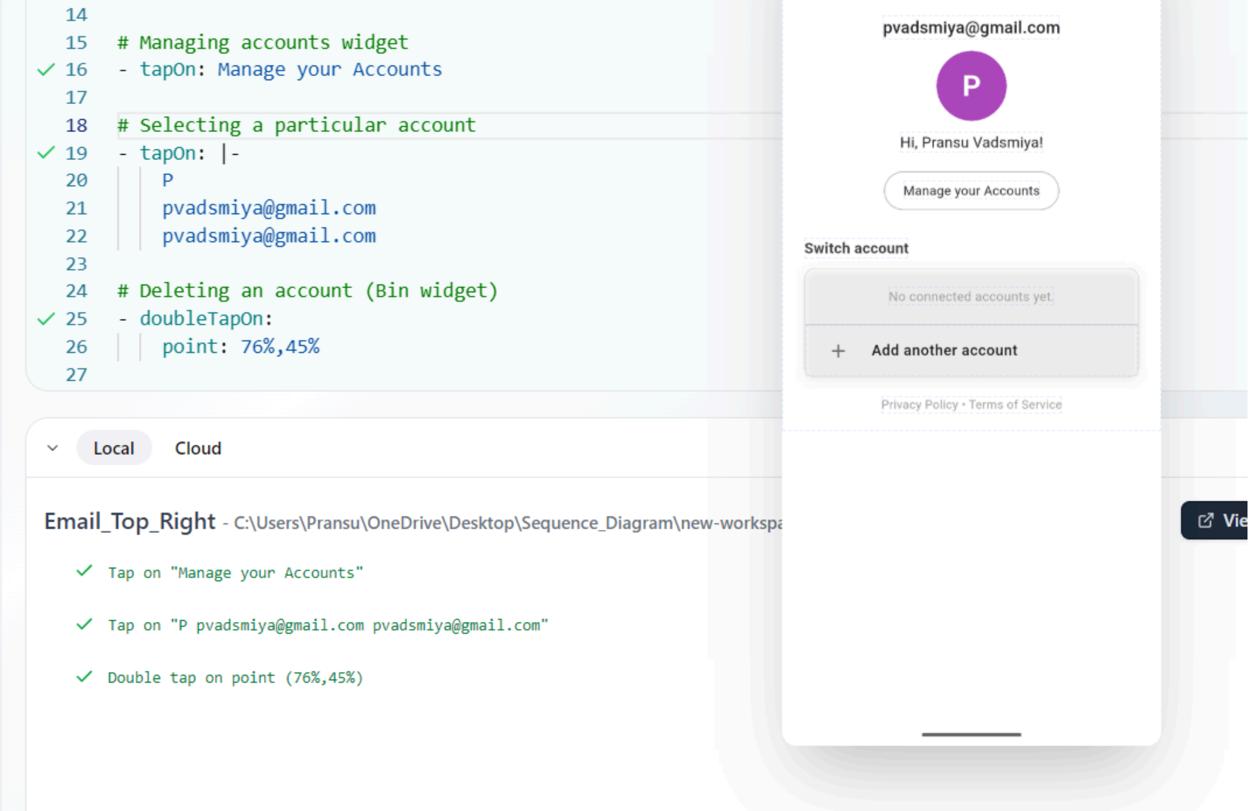
```
Email_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspa
✓ Double tap on point (76%,94%)          0:00
✓ Tap on "P"                             0:02
✓ Tap on "Back"                          0:07
✓ Tap on "P"                             0:12
✓ Tap on "Add another account"           0:16
✓ Tap on "Manage your Accounts"          0:21
```

- The tap on the top-right profile icon was detected correctly and opened the account menu.

- Navigation through the Back button and re-opening the menu worked smoothly.

- The “Add another account” option responded immediately and opened the Google account selection screen.

- However, the **“Manage your Accounts” button did not work as expected**, indicating an issue with its functionality or navigation flow.



```
# Managing accounts widget
- tapOn: Manage your Accounts

# Selecting a particular account
- tapOn: |-
    P
    pvadsmiya@gmail.com
    pvadsmiya@gmail.com

# Deleting an account (Bin widget)
- doubleTapOn:
    point: 76%,45%
```

Email_Top_Right - C:\Users\Pransu\OneDrive\Desktop\Sequence_Diagram\new-workspa

```
✓ Tap on "Manage your Accounts"

✓ Tap on "P pvadsmiya@gmail.com pvadsmiya@gmail.com"

✓ Double tap on point (76%,45%)
```

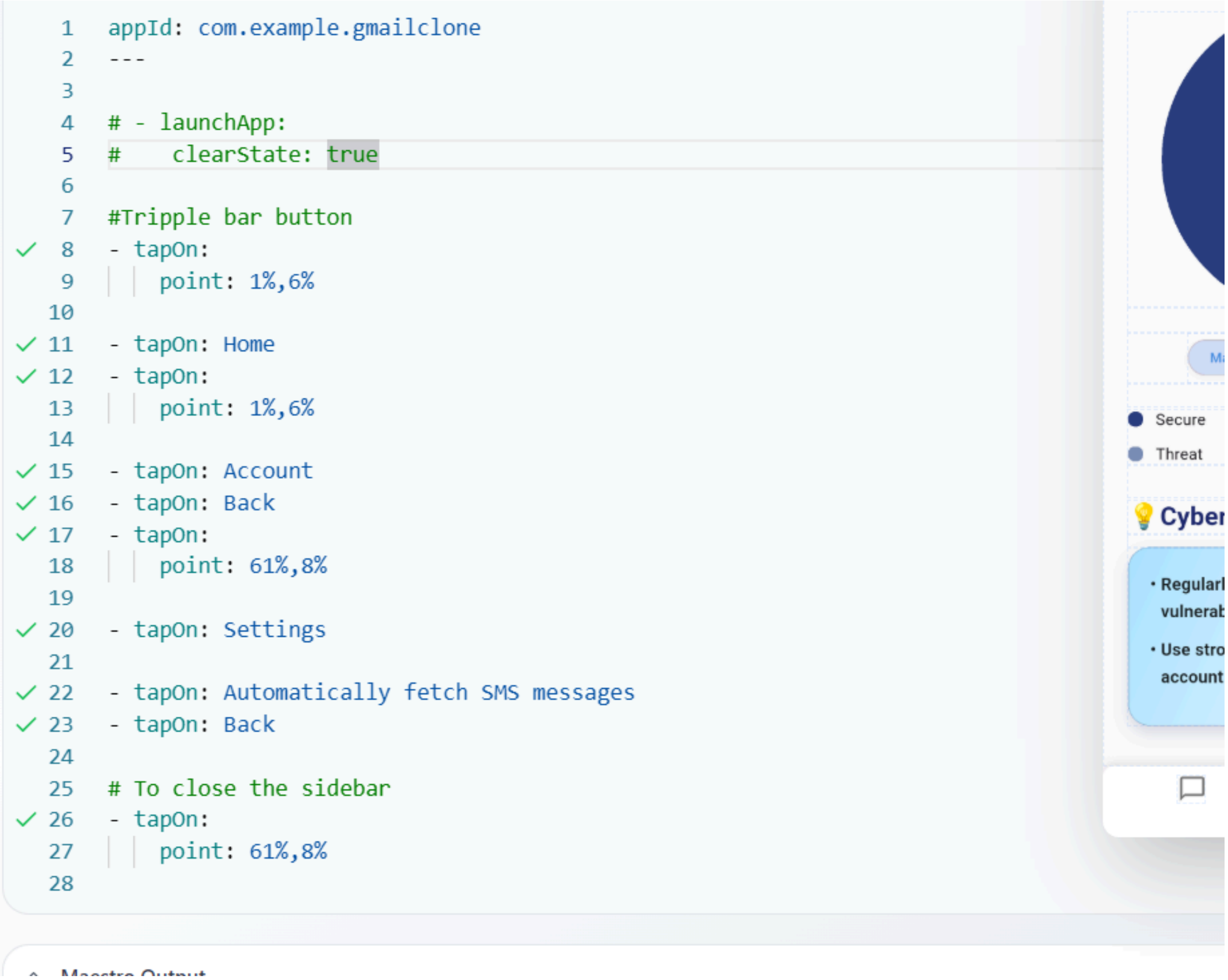
- Selecting a particular account from the list worked correctly and responded immediately.

- The double-tap on the bin icon functioned properly and initiated the delete action on the selected account item.

- Aside from the non-responsive “Manage your Accounts” button, all other interactions performed as intended.

SIDEBAR

1.Testing the buttons



```
appId: com.example.gmailclone
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# - launchApp:
#    clearState: true

#Tripple bar button
- tapOn:
    point: 1%,6%

- tapOn: Home
- tapOn:
    point: 1%,6%

- tapOn: Account
- tapOn: Back
- tapOn:
    point: 61%,8%

- tapOn: Settings

- tapOn: Automatically fetch SMS messages
- tapOn: Back

# To close the sidebar
- tapOn:
    point: 61%,8%

```

- The sidebar opened successfully on double-tap, confirming the hamburger menu is responsive.

- The **Home**, **Account**, and **Settings** options were all clickable and navigated correctly to their respective screens.

- The **“Automatically fetch SMS messages”** option responded properly and allowed navigation back without issues.

- Tapping again correctly **closed the sidebar**, showing that the menu toggles as expected.