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THYNK UNLIMITED

MOBILE APPLICATION SECURITY ANALYSIS





```
openjdk version "23.0.2" 2025-01-21
ajzankulkibaeva@MacBook-Air-Ajzan ~ % brew install android-platform-tools
```

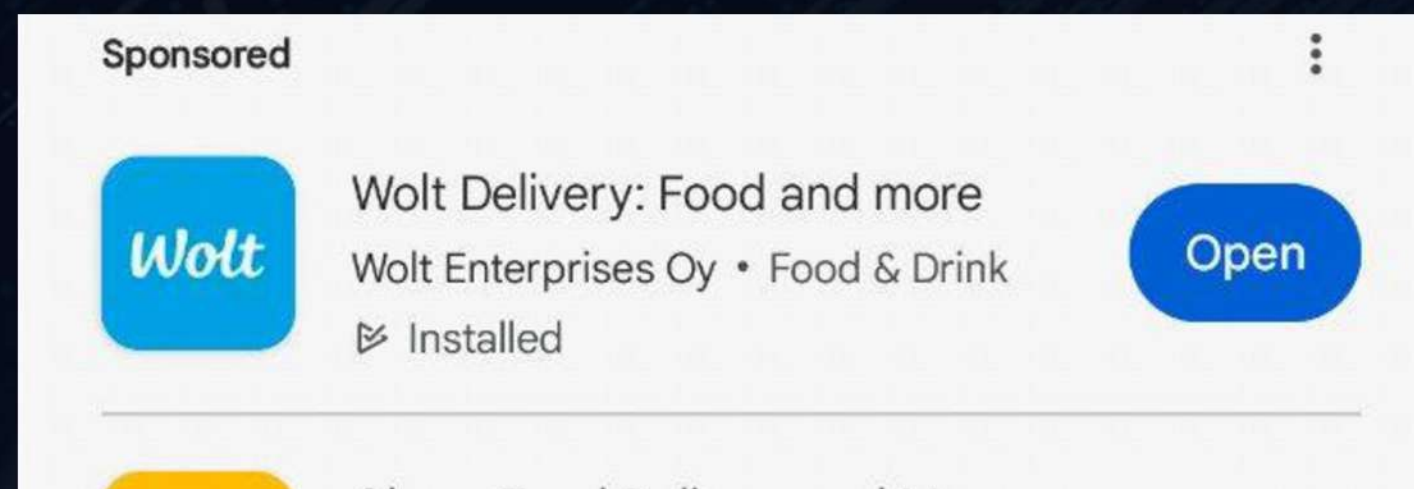
```
##### 100.0%
==> Installing Cask android-platform-tools
==> Linking Binary 'adb' to '/opt/homebrew/bin/adb'
==> Linking Binary 'etc1tool' to '/opt/homebrew/bin/etc1tool'
==> Linking Binary 'fastboot' to '/opt/homebrew/bin/fastboot'
==> Linking Binary 'hprof-conv' to '/opt/homebrew/bin/hprof-conv'
==> Linking Binary 'make_f2fs' to '/opt/homebrew/bin/make_f2fs'
==> Linking Binary 'make_f2fs_casefold' to '/opt/homebrew/bin/make_f2fs_casefold'
==> Linking Binary 'mke2fs' to '/opt/homebrew/bin/mke2fs'
🍺 android-platform-tools was successfully installed!
ajzankulkibaeva@MacBook-Air-Ajzan ~ %
```

```
Android Debug Bridge version 1.0.41
Version 36.0.0-13206524
Installed as /opt/homebrew/bin/adb
Running on Darwin 23.6.0 (arm64)
ajzankulkibaeva@MacBook-Air-Ajzan ~ %
```

```
#####
==> Pouring jadx--1.5.1.all.bottle.tar.gz
🍺 /opt/homebrew/Cellar/jadx/1.5.1: 12 files, 121.2MB
==> Running `brew cleanup jadx`...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).
```



PHASE 2: WOLT





1.adb devices

List of devices attached
emulator-5554 device



2.adb shell pm list packages | grep wolt
package:com.wolt.android

PHASE 3

3.adb shell pm path com.wolt.android



4.adb pull /data/app/~~0_Oft10KOzysVmnAQbIUlw==/com.wolt.android-
rXJxXkLQWZDece2CZTWxJA==/base.apk ./extracted_wolt_base.apk

/data/app/~~0_Oft10KOzysVmnAQbIUlw==/com.wol...ipped. 65.0 MB/s (136851690 bytes in 2.007s)

PHASE 4: DECOMPILING THE APPLICATION



```
Терминал Shell Правка Вид Окно Справка
ajzankulkibaeva — java -Xms256M -XX:MaxRAMPercentage=70.0 -Djdk.util.zip.disabl...

I: Using Apktool 2.11.1 on extracted_wolt_base.apk with 8 threads
I: Baksmaling classes.dex...
I: Baksmaling classes10.dex...
I: Baksmaling classes11.dex...
I: Baksmaling classes12.dex...
I: Baksmaling classes2.dex...
I: Baksmaling classes3.dex...
I: Baksmaling classes4.dex...
I: Loading resource table...
I: Decoding file-resources...
I: Loading resource table from file: /Users/ajzankulkibaeva/Library/apktool/framework/1.apk
I: Baksmaling classes5.dex...
I: Decoding values */* XMLs...
I: Baksmaling classes6.dex...
I: Decoding AndroidManifest.xml with resources...
I: Regular manifest package...
I: Baksmaling classes7.dex...
I: Baksmaling classes8.dex...
I: Baksmaling classes9.dex...
I: Copying original files...
I: Copying assets...
I: Copying unknown files...
ajzankulkibaeva@MacBook-Air-Ajzan ~ % jadx -d jadx_output extracted_wolt_base.apk
```

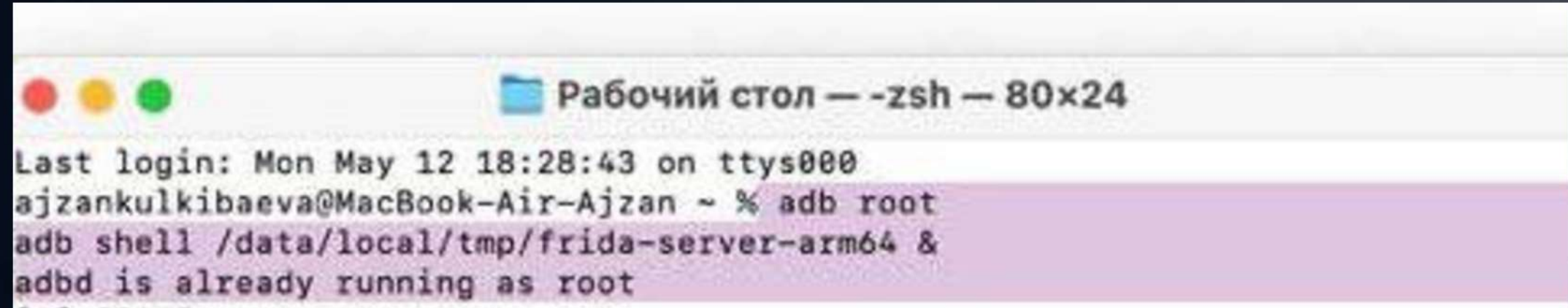


METHOD 2: FRIDA HOOKING

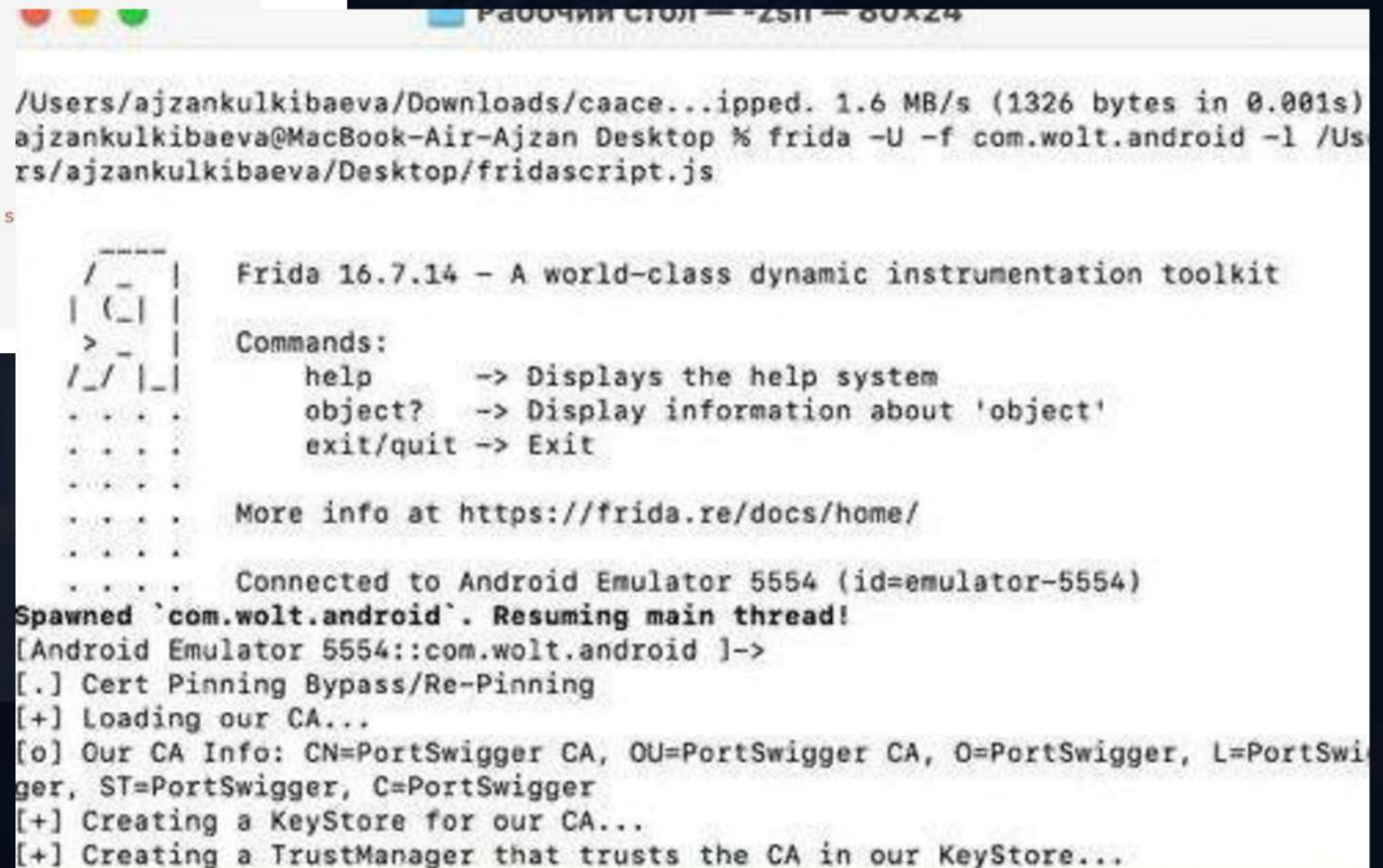
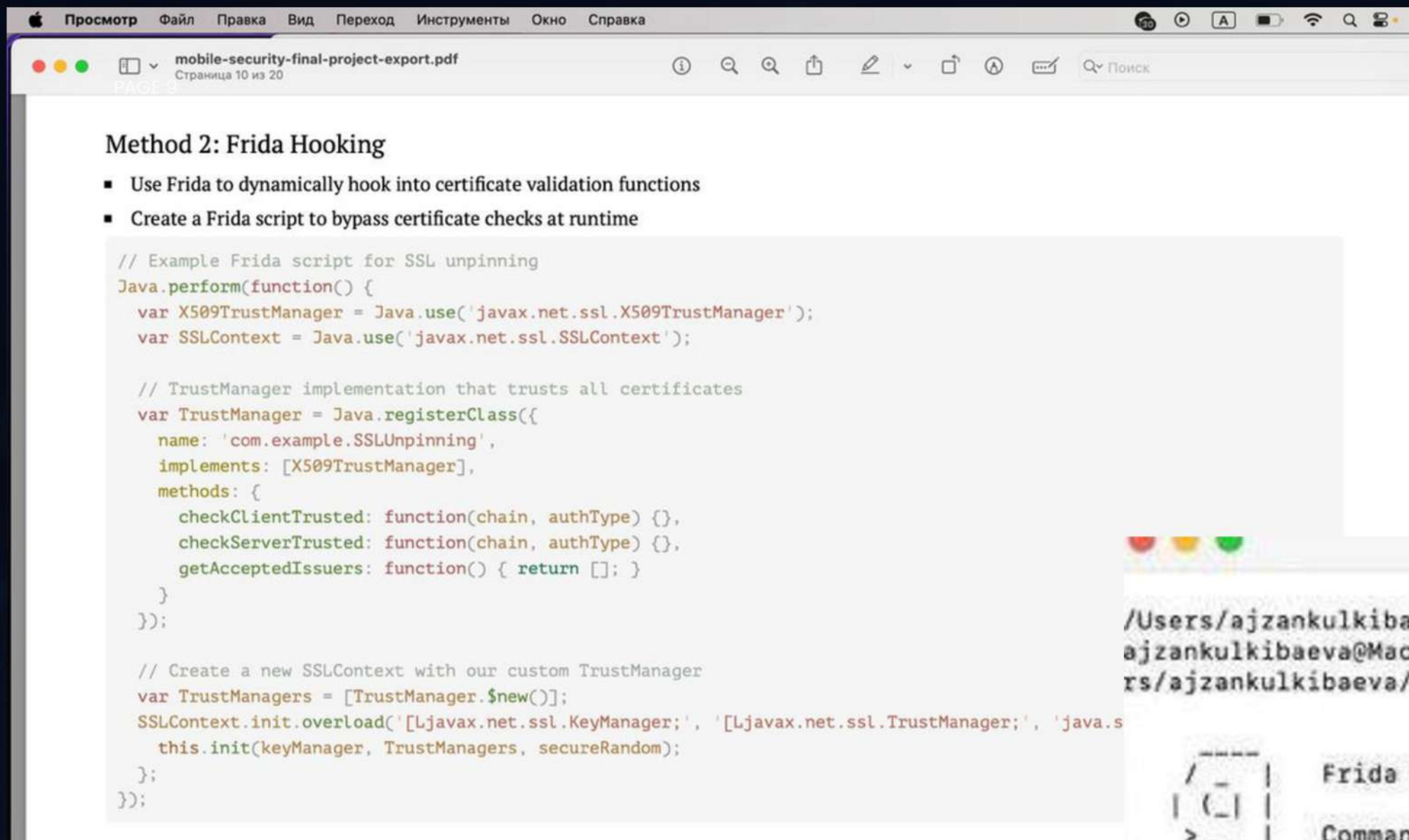
Rapid Detection and Containment

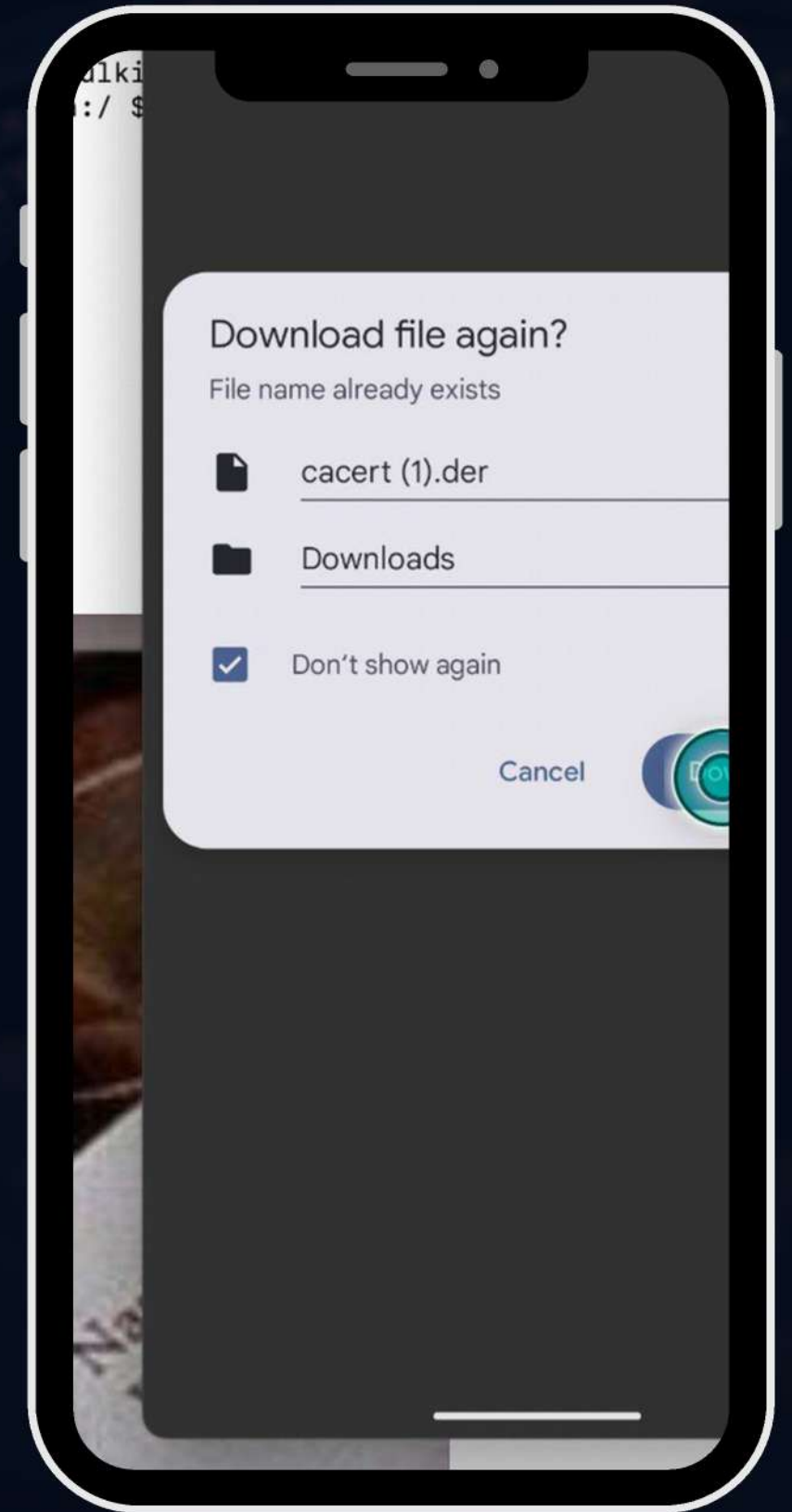
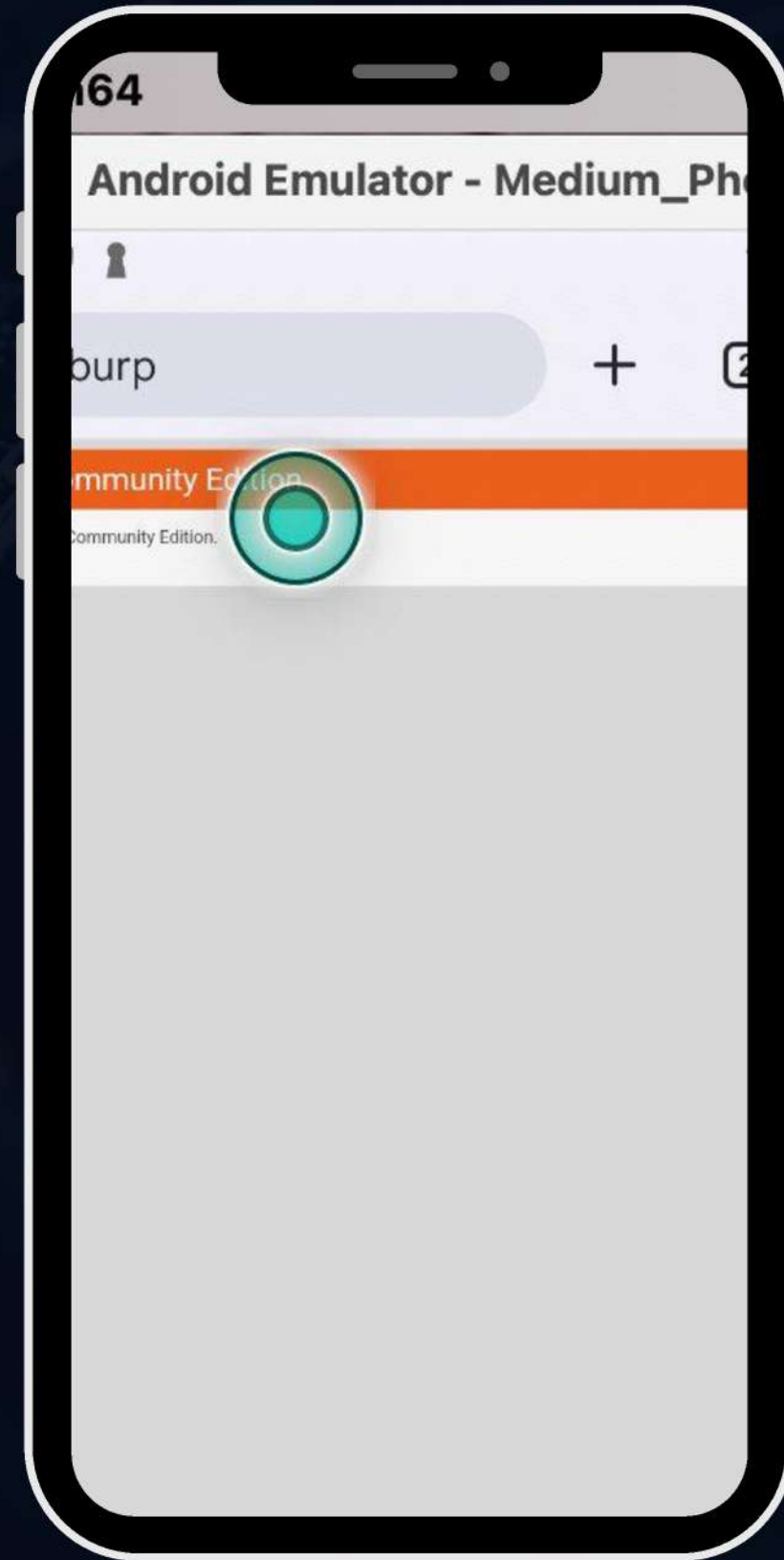
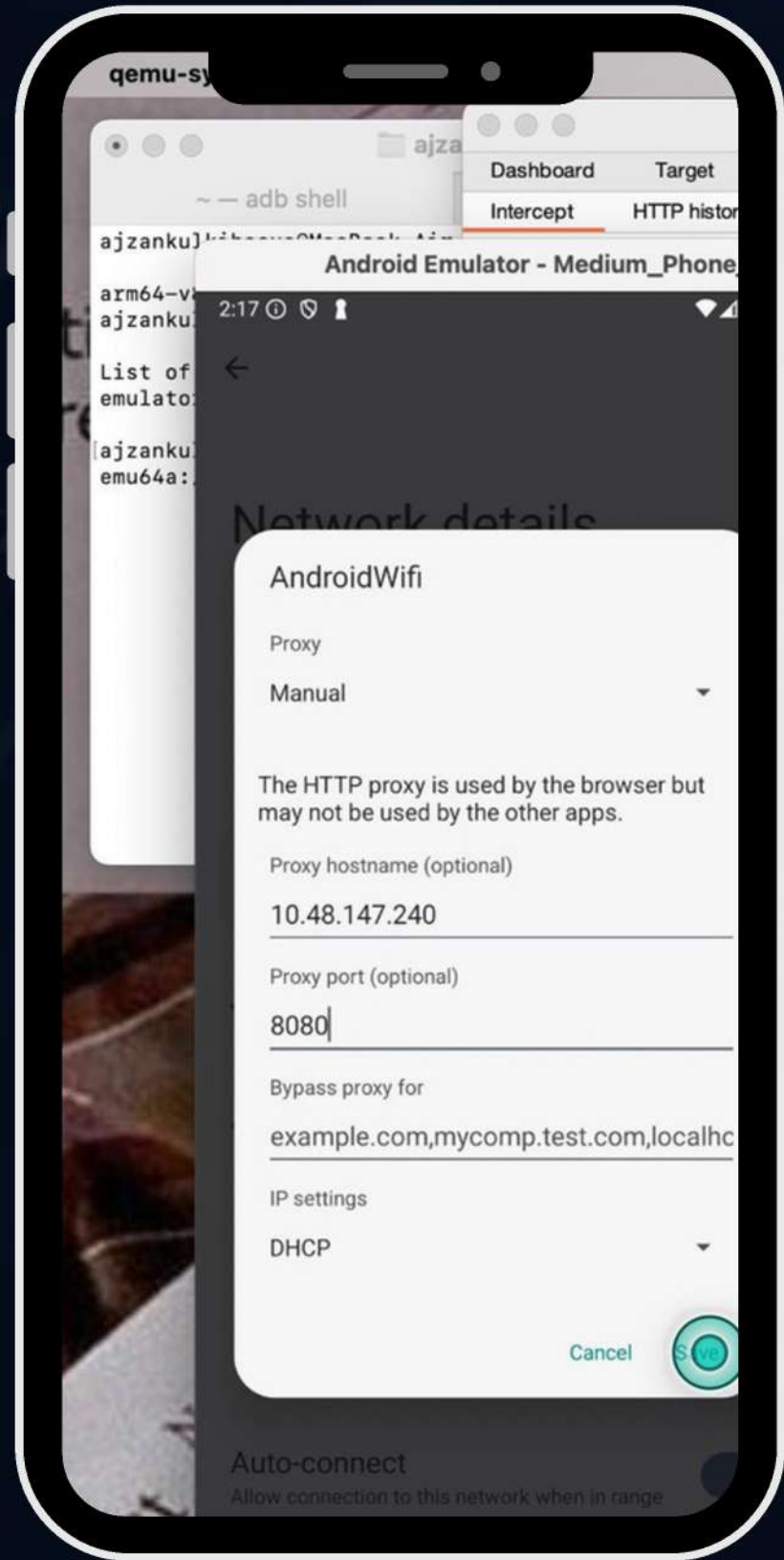
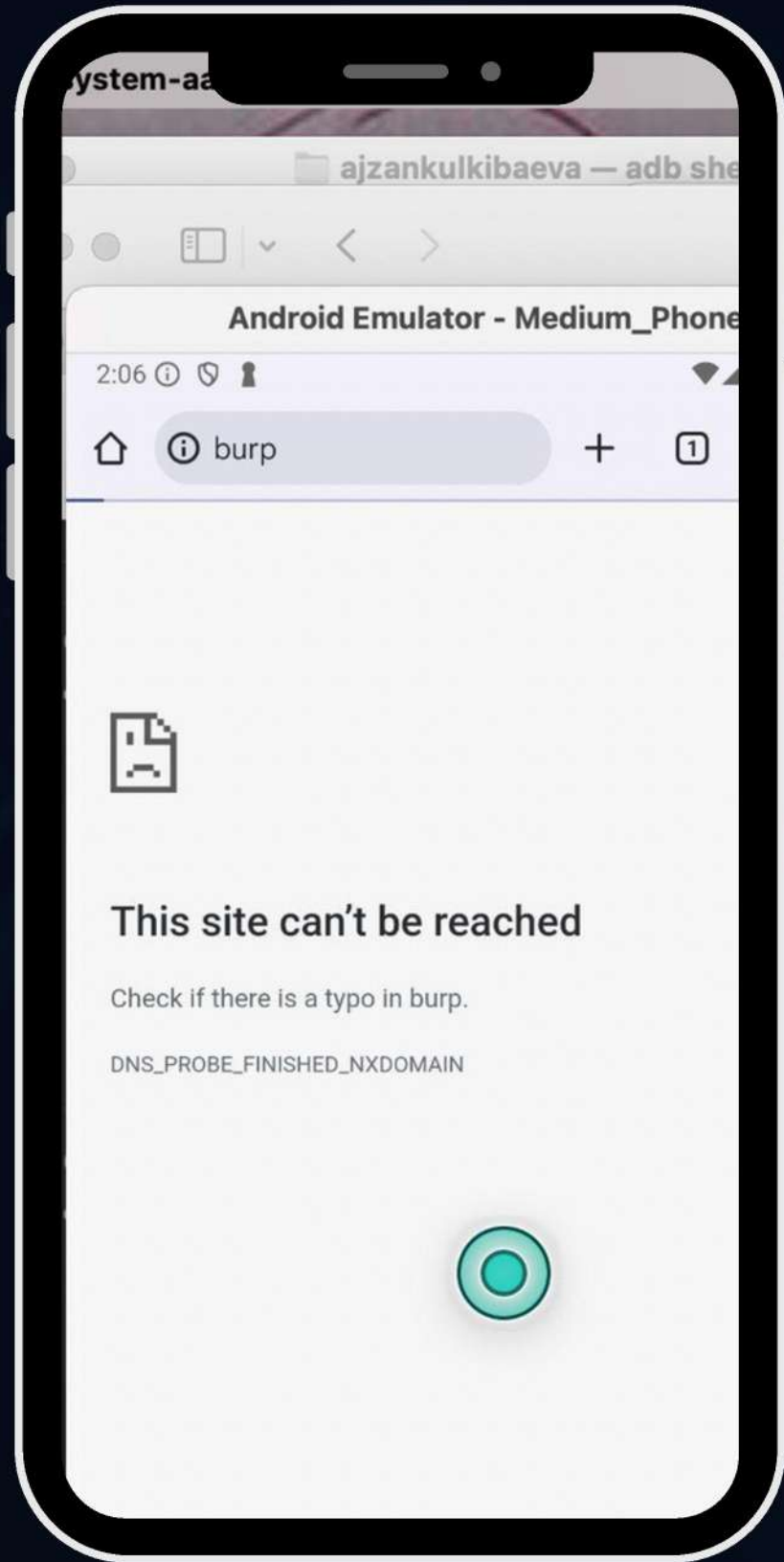
```
zsh: no such file or directory: /Users/ajzankulkibaeva/Desktop/ssl-bypass.js  
ajzankulkibaeva@MacBook-Air-Ajzan ~ % adb shell chmod 777 /data/local/tmp/frida-  
server-16.7.14-android-arm64  
ajzankulkibaeva@MacBook-Air-Ajzan ~ % adb root  
adb is already running as root
```

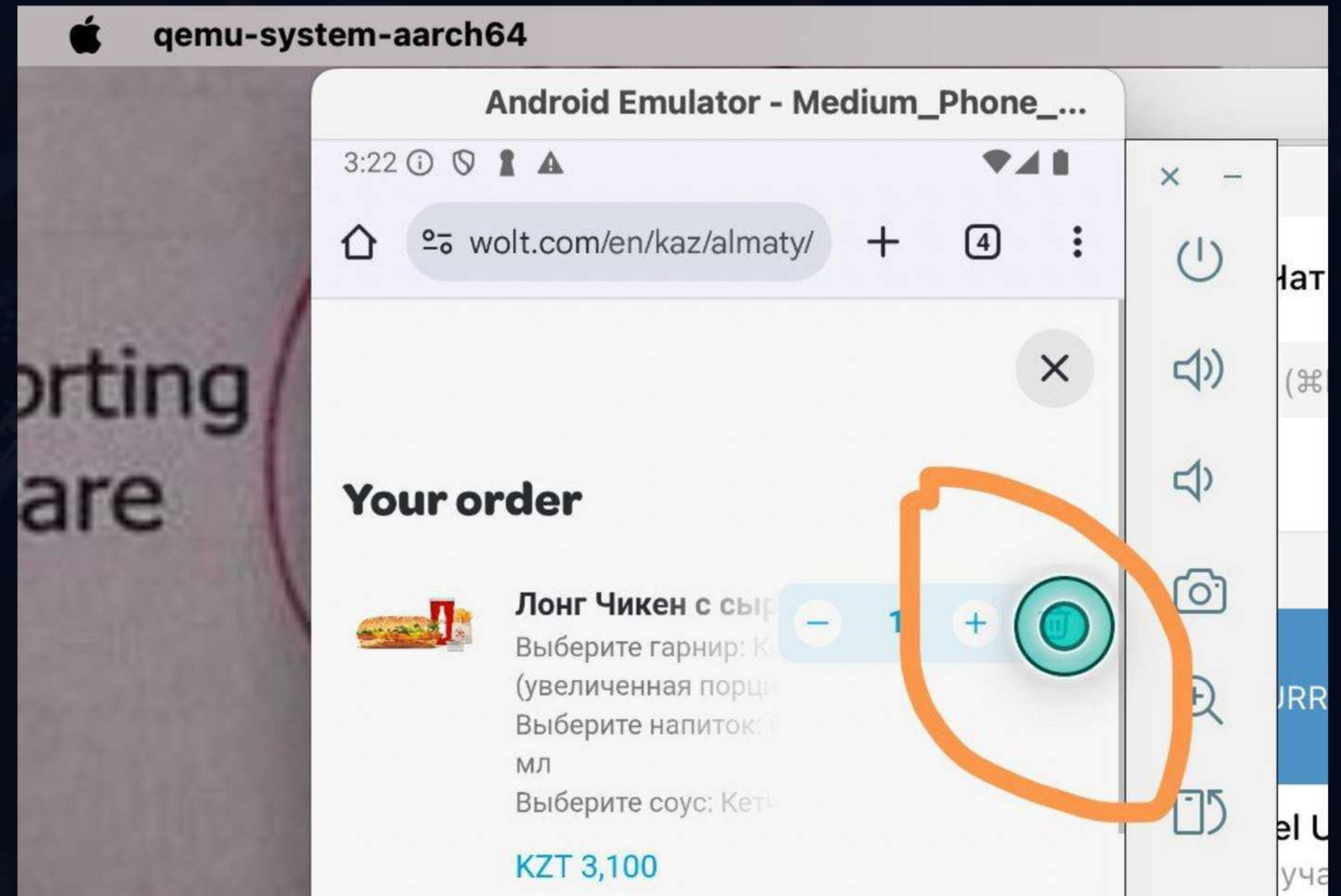
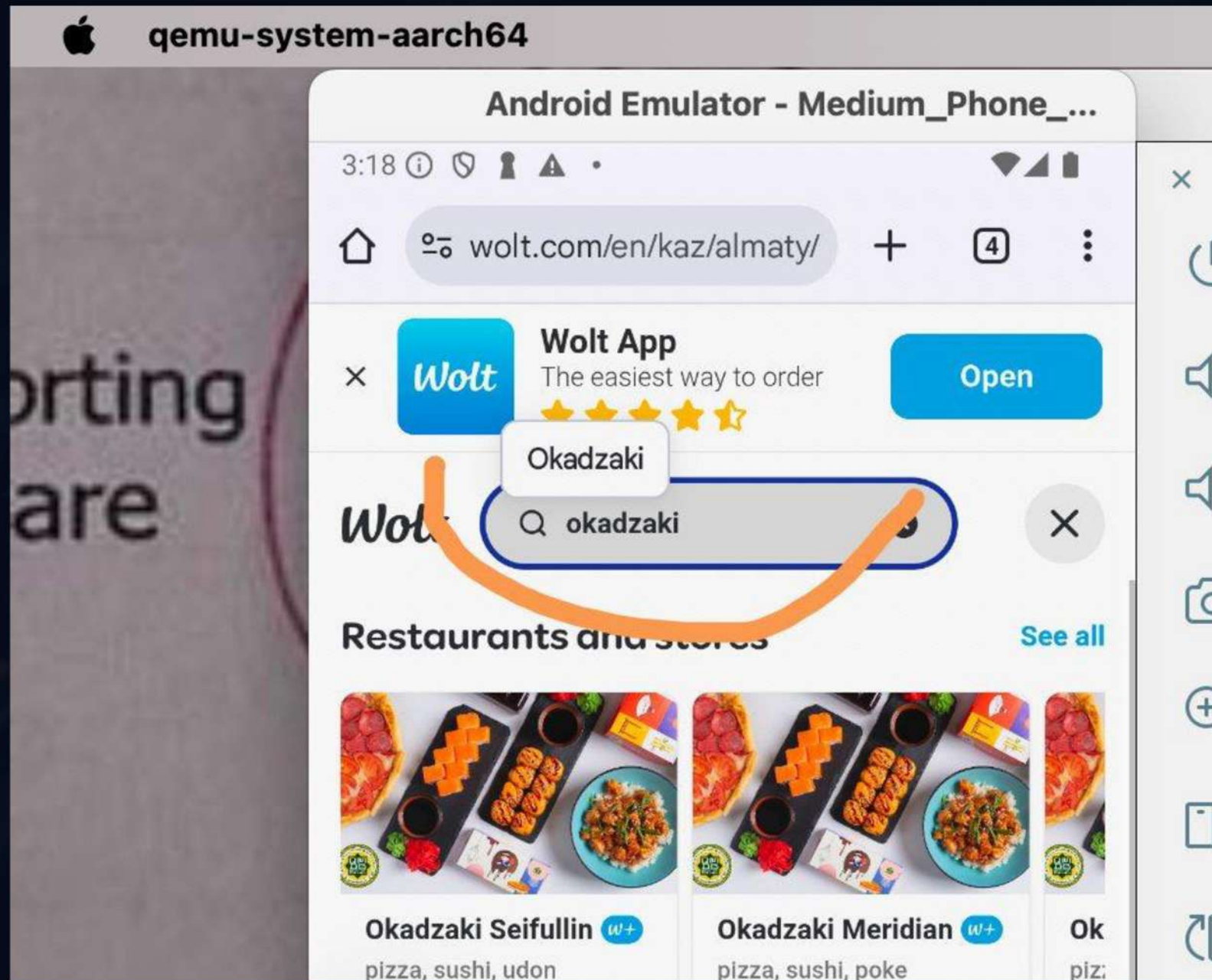
Post-Incident Analysis and Recovery:



```
Last login: Mon May 12 18:28:43 on ttys000  
ajzankulkibaeva@MacBook-Air-Ajzan ~ % adb root  
adb shell /data/local/tmp/frida-server-arm64 &  
adb is already running as root
```





The `https://authentication.wolt.com/v1/wauth2/access_token` endpoint is used in the OAuth 2.0 authentication flow to obtain access and refresh tokens.

Method: POST

Purpose: Exchange an authorization code for an access token (for API requests) and a refresh token (to renew the access token).

Parameters: `grant_type` (authorization_code), `code` (authorization code), `redirect_uri` (same as used during authorization).

Response: Access token, refresh token, and expiration time.

REQUESTMETHOD: GET
ENDPOINT: /V1/PAGES/RESTAURANTS
QUERY PARAMETERS:

LAT=43.245132
LON=76.954158

PURPOSE

- **FETCH A LIST OF RESTAURANTS NEAR THE PROVIDED COORDINATES.**