

# Ex140 Submission

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## **Executive Summary**

### **Goals**

The goal of this exercise is to use mobile application penetration testing techniques to see if a mobile app is exposing sensitive data.

### **Risk Ranking/Profile**

The findings of this exercise is critical as the credentials are hard-coded in the software.

### **Summary of Findings**

The username and password is hard-coded under the ItemListActivity/Async directory on line 146. This is easily decrypted to show the credentials.

### **Recommendation Summary**

Do not hard-code the credentials within the software.

## **Attack Narrative**

To begin I downloaded the apk file we were set to analyze from <http://www.artstailor.com/apps/ArtsTailorNews.apk> and loaded it into jadx-gui (see figure 1). After this I navigated throughout the different directories looking for anything obvious that would compromise the integrity of the system. Within the directory

Source code/com/example.artstailor.com/ItemListActivity/Async on line 146 I identified that credentials were being hardcoded (see figure 2). After this I saved the credentials into a file and ran `base64 -d` to decrypt the information thus revealing the user credentials (see figure 3). By logging in with this information a user is able to pull all records from the test database.

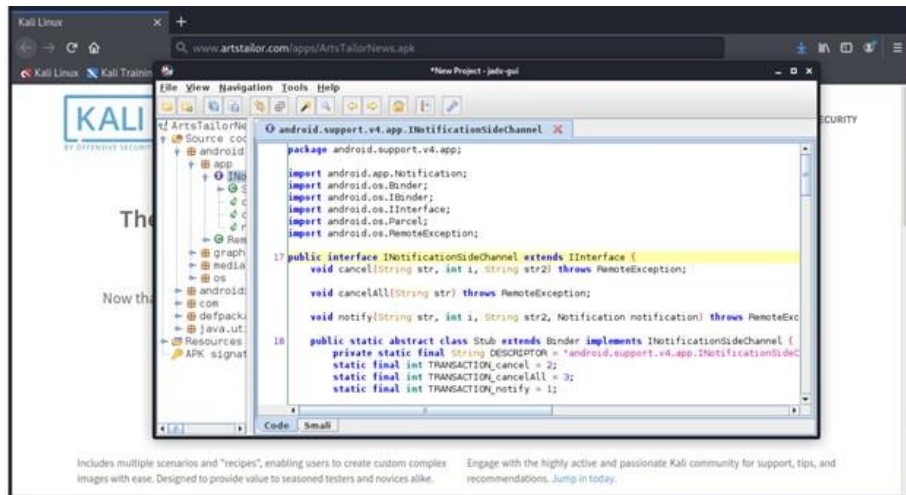


Figure 1:

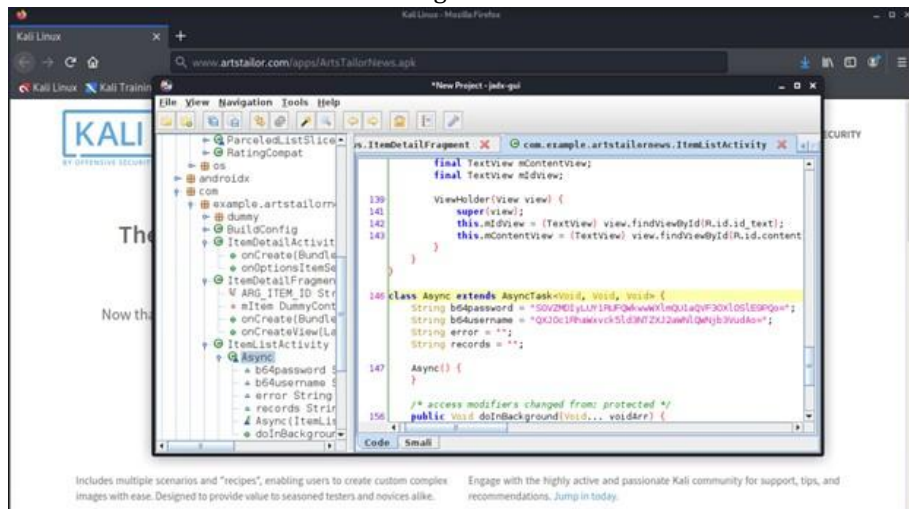


Figure 2:



Figure 3: