



Pre- MPT Project Phase

Phase Goal: Preparing to be able to conduct Mobile Penetration Testing (MPT) on an APK (Android Package) **that will be provided on the next phase of the project.** In doing so, you need to get yourself familiar with Android code and set up a Mobile Penetration Testing Environment. Here is a suggestion to the required tasks and steps to accomplish that with some helpful resources (please **Feel free** to do and use whatever you want to accomplish the required goals.)

Suggested steps:

Task#1: Get familiar (Review) Android code

1. Install Android Studio.
2. Program and then run a simple Android App, we suggest the **Login Activity** in [1]. While you implement, try to understand the code generally and to learn about Activity and Logging [2].

Task#2: Set up your MPT Environment:

1. Get a real Android phone or create an emulated one. For the emulation, you may use Genymotion software [3]. (When used, we recommended to be installed on the host machine directly)
2. Install the following tools, Jadx (or Apktool instead), mobSF or (Drozer).
3. Figure out how you can use
 - a. **Jadx** or to decompile an APK and read the “source” code.
 - b. **MobSF** to automatically find vulnerabilities.
 - c. Android Debug Bridge (**ADB**) to communicate through terminal with your Android Phone such as previewing the Android logs and launching Activities.

Suggested Resources:

- [1] <https://developer.android.com/studio/projects/templates#LoginActivity>
- [2] https://www.tutorialspoint.com/android/android_activities.htm
- [3] <https://www.genymotion.com/fun-zone/>
- [4] <https://github.com/skylot/jadx>
- [5] <https://www.xda-developers.com/install-adb-windows-macos-linux/>
- [6] <https://github.com/MobSF/Mobile-Security-Framework-MobSF>
- [7] <https://kalilinuxtutorials.com/mobsf-mobile-security-framework/>
- [8] <https://stackoverflow.com/questions/5992229/facing-problem-in-kali-linux-python3-pip>
- [8] <https://github.com/MobSF/Mobile-Security-Framework-MobSF/issues/943>

Evaluation and Submission

You need to submit a comprehensive Pre-MPT report through LMS by the specified due date. Your report should **describe and demonstrate** your preparation for the coming MPT phase. It also should specify **who worked on what** (team work).