

**Rooio:
Development and Build Environment
with Continuous Integration
version 1.0**

Rooio
*Computer Science Department
California Polytechnic State University
San Luis Obispo, CA USA*

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Credits

Name	Date	Role	Version
Logan Lawson	November 18, 2019	Document Owner, Lead Author	1.0
Karla Sunjara	November 18, 2019	Lead Author	1.0
Jessica Chang	November 18, 2019	Lead Author	1.0
Yusuf Bahadur	November 18, 2019	Lead Author	1.0
Luke Reckard	November 18, 2019	Lead Author	1.0

1 Initial Setup

1.1 Clone the Git Repository

The repository for this project is located at <https://github.com/CPSECapstone/Rooio>. To clone this repository, click the clone or download button, and use git clone to create the local repository.

1.2 Download Android Studio

Go to <https://developer.android.com/studio> to download the most recent version of Android Studio. Then, open an existing project and choose the Repairs directory, which Android Studio should recognize as a project. The Gradle build script is included in this repository and the application should build with a default Android configuration set up, which will exclude any Clover functionality.

2 Set Up Clover

Follow the instructions on the link below to set up the Clover emulator <https://docs.clover.com/clover-platform/docs/setting-up-an-android-emulator>.

The information below consists of helpful tips to reference while going through the Clover documented instructions. The section titles and step numbers coordinate with the Clover documentation.

2.1 Steps 1 and 2: Downloading Clover hardware profiles

For this step you cannot simply download the file to your computer, as it is a text box. You need to copy and paste `clover-station-2018.xml` to a new file on your computer. This file will be needed for creating the emulator profile.

This file can also be found in the git repository at `Rooio/Repairs/emulator` along with any other necessary downloads.

2.2 Step 3: Creating a new emulator profile: Step 5

The Clover hardware profile may not appear at first. Just continue refreshing the page or close and reopen Android Studio. Make sure you are under the Tablet section when looking for the added Clover profile.

2.3 Step 4: Sideloading required Clover APKs using ADB

The ‘adb devices’ command probably won’t work at first. You need to find the path where your adb is located.

2.3.1 Mac Users

These two commands will most likely work for Mac users, make sure you change “username” to your username. Also type in these commands in the same order as presented below.

```
export ANDROID_HOME=/Users/username/Library/Android/sdk
```

```
export PATH=${PATH}:${ANDROID_HOME}/tools:${ANDROID_HOME}/platform-tools
```

Then run the emulator, and while it is running type into the Android Studio terminal: adb devices. Also while the emulator is running, do step 5 and 6 of the installation commands.

2.3.2 Windows Users

The path to the adb is usually user\AppData\Local\Android\Sdk\platform-tools, which is the folder where the adb.exe is located. Add this path to your environment variables, or search in folders to find the exact path to the adb.

Then run the emulator, and while it is running type into the Android Studio terminal: adb devices. Also while the emulator is running, do step 5 and 6 of the installation commands.

3 Continuous Integration

After setting up the Clover emulator inside Android studio, the application should be able to run with full functionality. Any changes should be done on a branch and not directly to master.

Any commit to master triggers a CI build in Azure DevOps. The status of the most recent build can be seen on the GitHub repository.