Plusultra Pharma - Marketing Application

This Smartphone application is for marketing of Plusultra Pharma in Germany and UK. This application makes the products' up-to-date information quickly visible to the customers.



Figure 1: Application Overview

Development

Development/Build Environment

• OS: Ubuntu 20.04

• Platform: Node.js v12.22.11, Ionic v5.4.16, Cordova v11.0.0

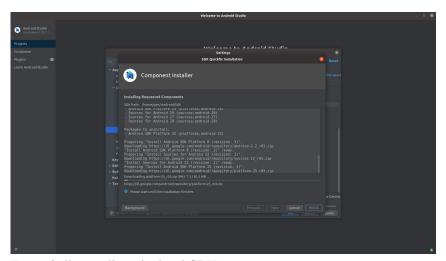
• Android: v6, v5, v.4

• iOS: ?

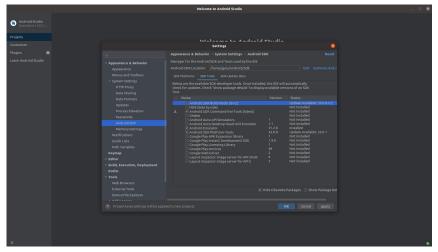
```
$ sudo npm install -g cordova@11.0.0
$ sudo npm install -g ionic@5.4.16
$ sudo npm install -g native-run cordova-res
$ sudo npm install -g @angular/cli
```

Installing Android SDK or Android Studio

- Reference: Android Studio with Ionic https://ionicframework.com/docs/v5/developing/android
- Configuring Android Emulator



First of all, installing Android SDK.



Secondly, installing Android SDK Command Line Tools

Finally, creating an emulator on AVD (https://developer.android.com/studio/run/managing-avds).

• Patching SDK 33

 $\ cd\ Android/Sdk/build-tools/33.0.0-rc2 \ ln\ -vs\ d8\ dx;\ cd\ lib;\ ln\ -vs\ d8.jar\ dx.jar$

How to build the application

- ## Installing environments
- \$ ionic cordova platform add android@10.0.0
- \$ ng add @ionic/cordova-builders

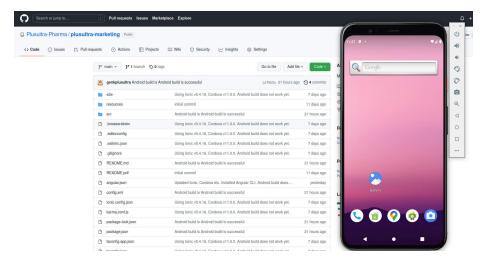


Figure 2: Android Emulator

- \$ ionic cordova plugin add cordova-plugin-inappbrowser
- \$ npm install --save @awesome-cordova-plugins/in-app-browser
- \$ npm install --save @awesome-cordova-plugins/core
- ## Updating splash screen (edit resources/*.png)
- \$ npm install cordova-res
- \$ ionic cordova resources
- ## Building Debug Application
- \$ ionic cordova build android
 - => platforms/android/app/build/outputs/apk/debug/app-debug.apk

Launching test instance

\$ ionic serve -d -b -a -s -p 11111

Testing in emulatr

\$ ionic cordova run android -1