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 v14.19.0, Ionic v5.4.16, Cordova v11.0.0

• Android: v6, v5, v.4

• iOS: ?

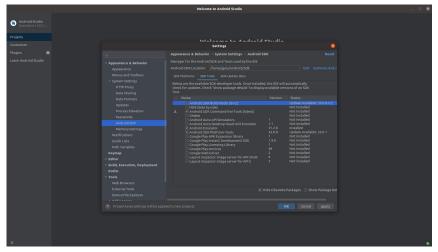
```
$ sudo npm install -g cordova@11.0.0
$ sudo npm install -g ionic@5.4.16
$ sudo npm install -g native-run cordova-res
$ sudo npm install -g @angular/cli
```

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).

How to build the application

- ## Installing environments
- \$ ionic cordova platform add android@8.0.0
- \$ ng add @ionic/cordova-builders
- \$ ionic cordova plugin add cordova-plugin-inappbrowser
- \$ npm install --save @awesome-cordova-plugins/in-app-browser
- \$ npm install --save @awesome-cordova-plugins/core

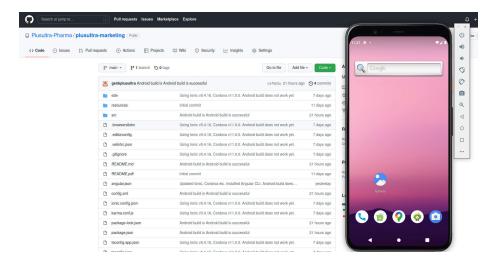


Figure 2: Android Emulator

- ## 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