Plusultra Pharma - Marketing Application

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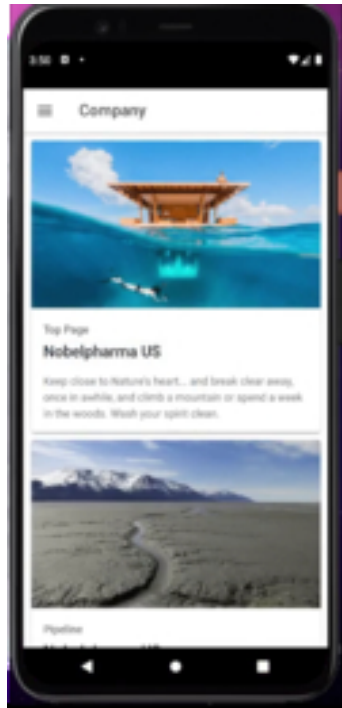

Figure 1: Application Overview

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
```

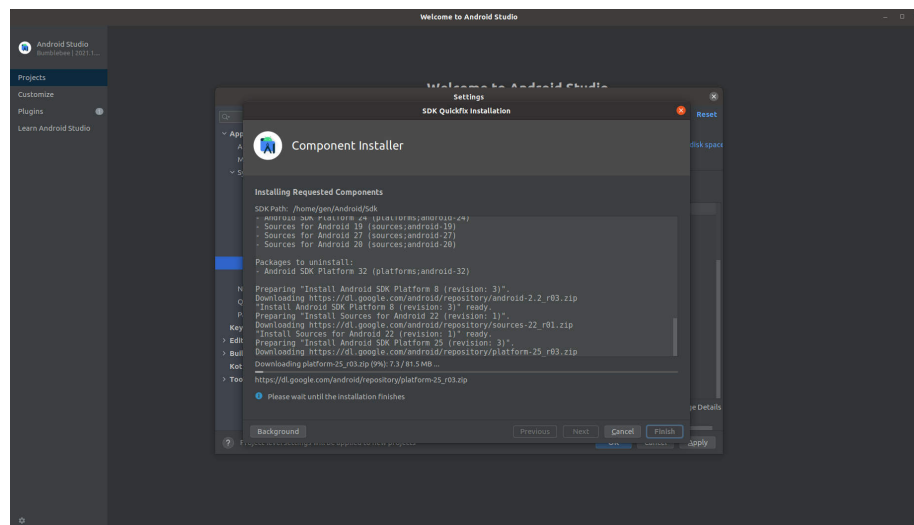## Installing Android SDK or Android Studio

Android Studio

- Download Android Studio: https://developer.android.com/studio/index.html#downloads

  ```
  $ tar zxvf android-studio-2021.1.1.22-linux.tar.gz
  ```

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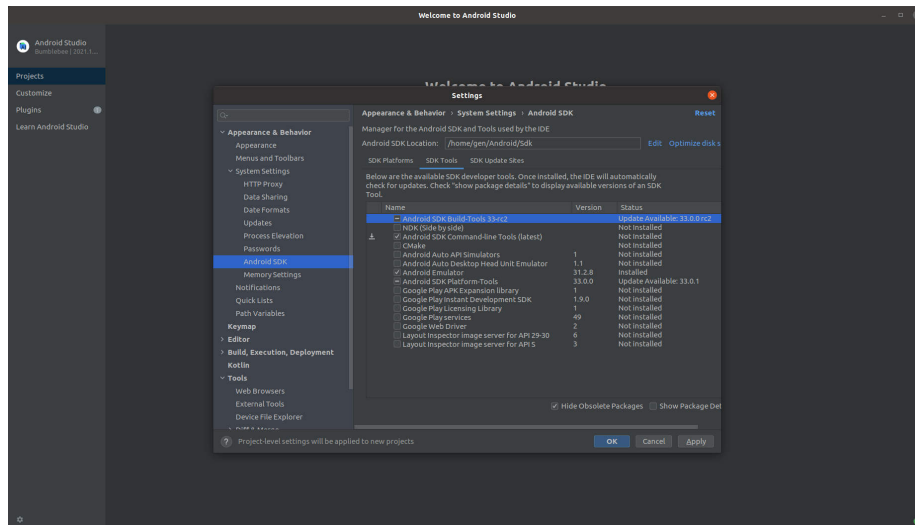
Android Emulator

1. Configuring Android Emulator

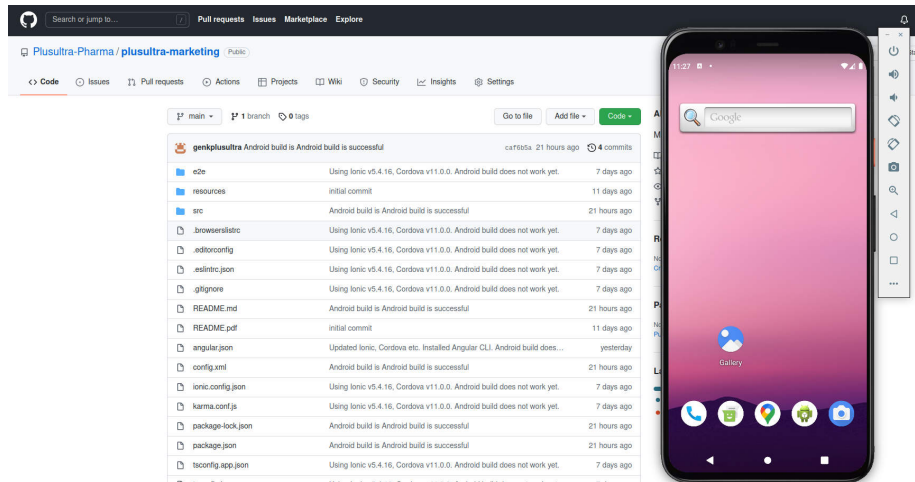2. Installing Android SDK.

3. Installing Android SDK Command Line Tools

Figure 2: Android Emulator

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

5. Patching SDK 33

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

Ionic Tutorials

- Ionic Icons: https://ionicframework.com/docs/v3/ionicons/

- Ionic Modal: https://www.youtube.com/watch?v=8Sv2Nubc5MQ

How to build the application

```
## Installing environments
$ ionic cordova platform add android@10.0.0
$ 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

## 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
```

Testing Application

- Launching test instance

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

- Testing in emulator

  $ ionic cordova run android -l

Usage of the Marketing Application

The structure of the marketing application is like our company website. But, we can see the web pages using DocList Check and any authentication. We can put any preferable pages to the application preliminary.

Side Menu

Clicking the top-left button can open the side menu. One can select one of the menus.

Company Screen

The "Company" menu corresponds to the company website's top category, "Home". Once one clicks the "Company" menu, the application shows the main screen of "Company Cards", which are the links to the web pages under the "Home" category.
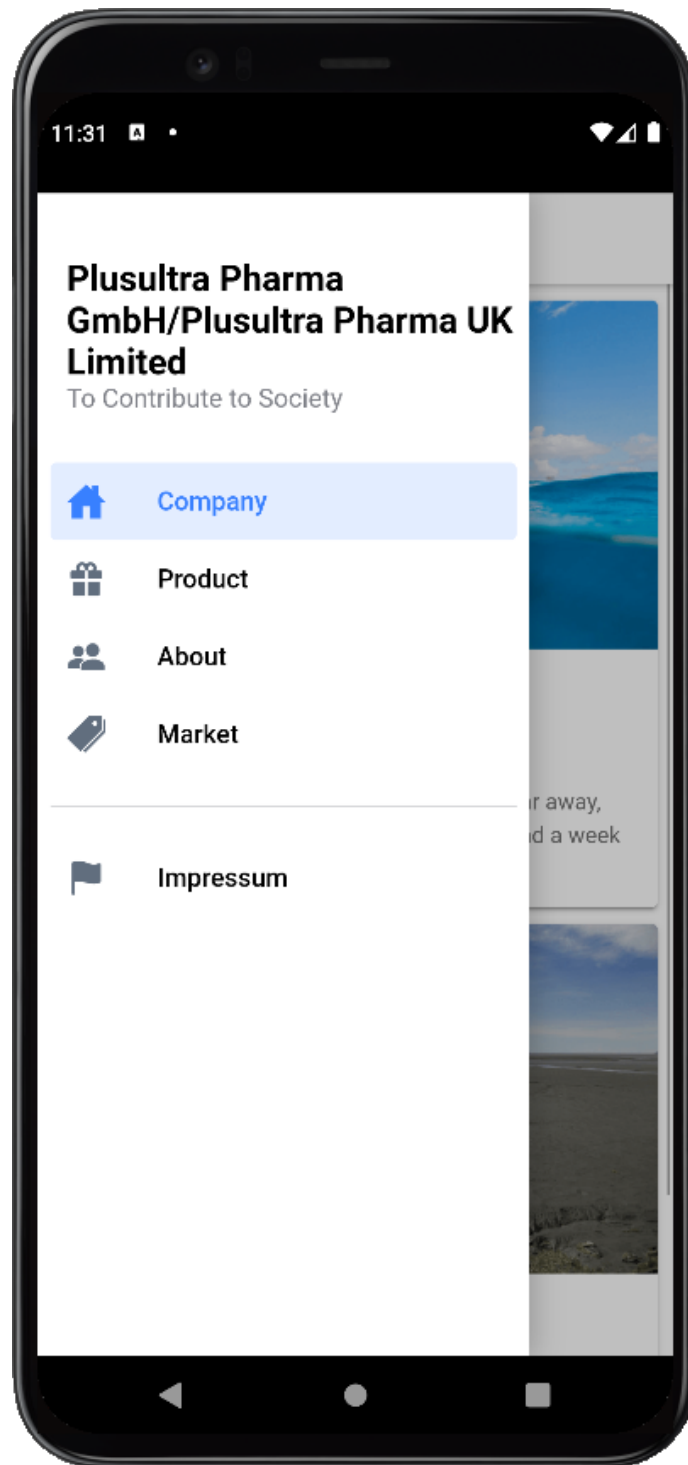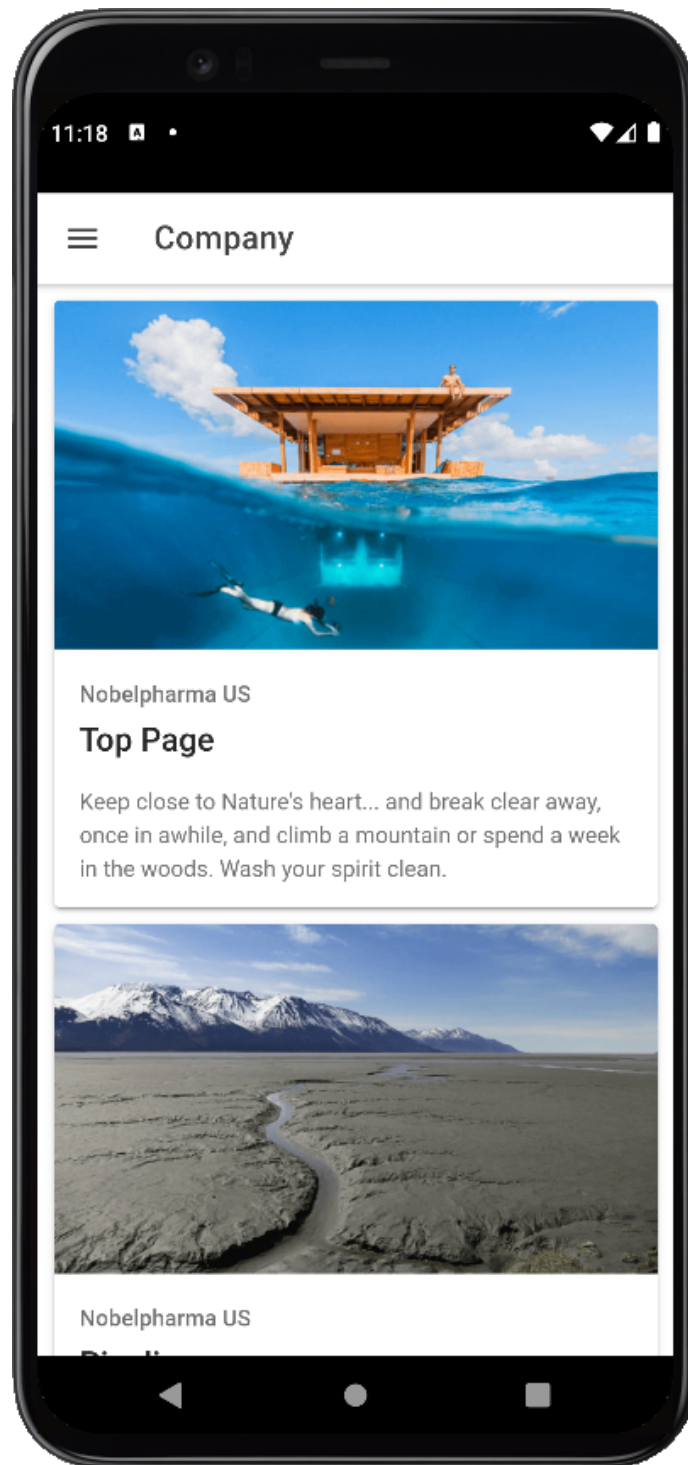
Figure 3: Side Menu

Figure 4: Company Screen

Web Page

A "Company Card" links to a webpage. So, one can immediately see the webpage.

About Screen

The "Company" menu corresponds to the company website's top category, "About".

Impressum

The Impressum page contains our company information and responsible people and license information of this application.
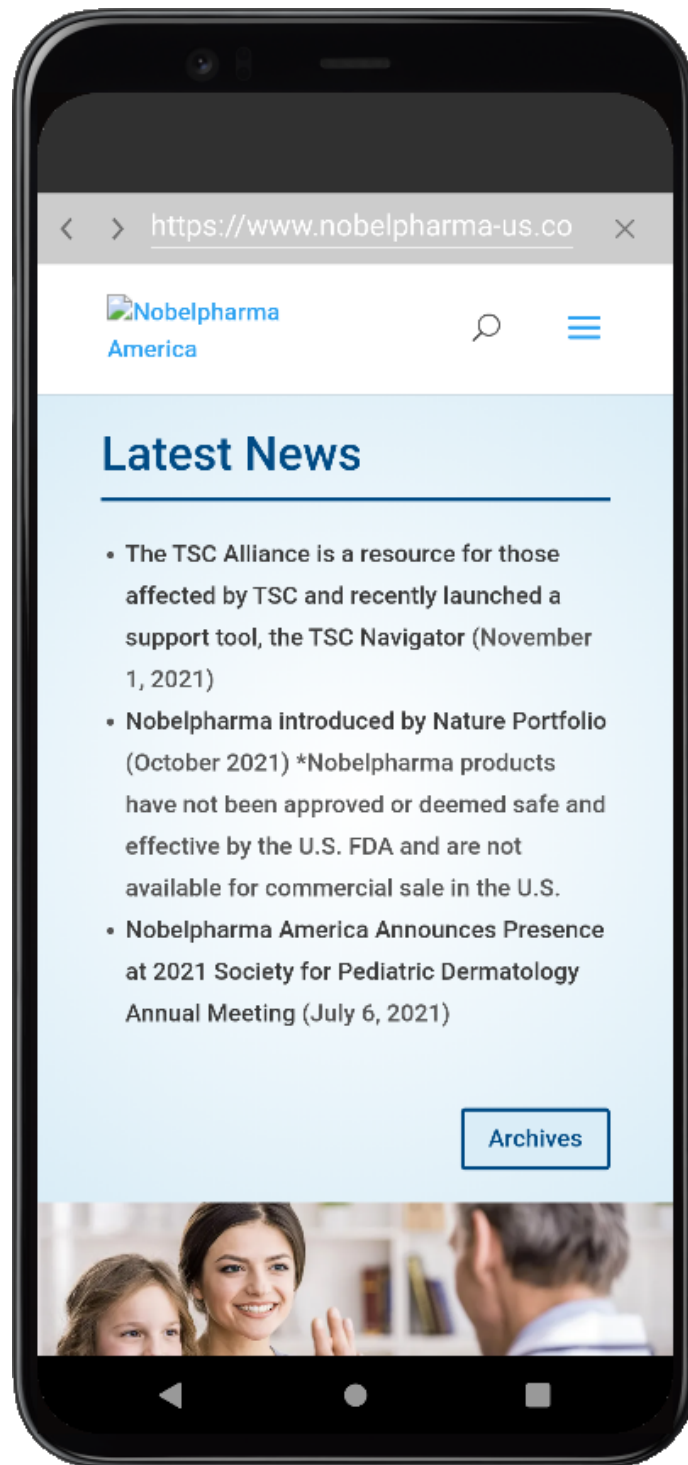
Figure 5: Company Webpage

Nobelpharma US

Philosophy

Keep close to Nature's heart... and break clear away, once in awhile, and climb a mountain or spend a week in the woods. Wash your spirit clean.

Nobelpharma US

Figure 6: About Screen