

## 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.

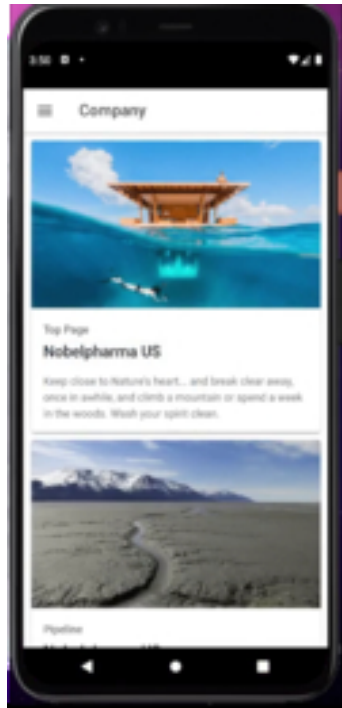


Figure 1: Application Overview

## Development

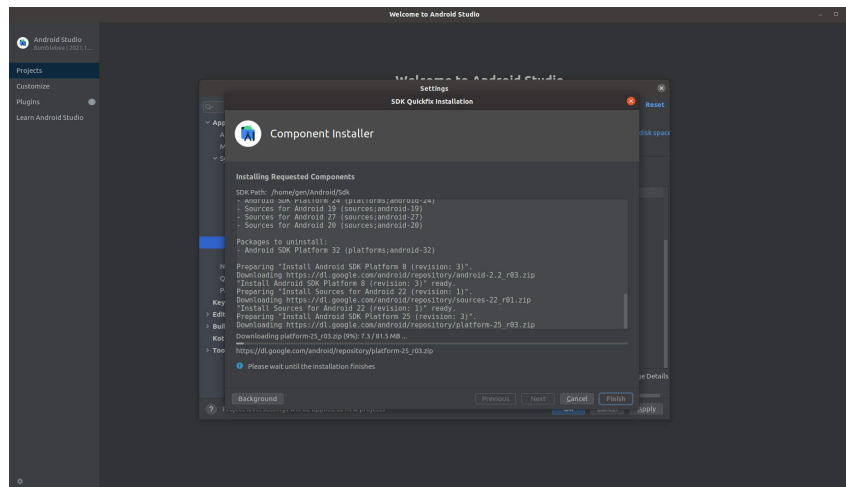
### Development/Build Environment

- OS: Ubuntu 20.04
- Platform: Node.js v12.22.11, Ionic v5.4.16, Cordova v11.0.0
- Android: v6, v5, v.4
- iOS: ?

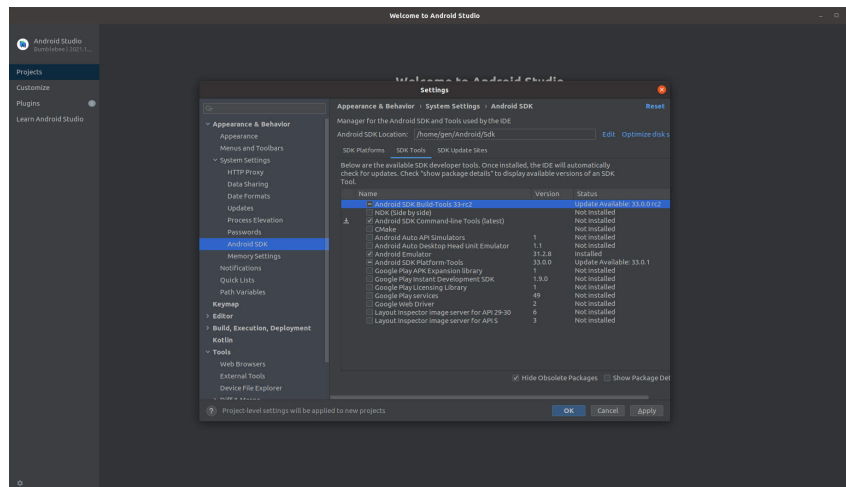
```
$ sudo npm install -g cordova@11.0.0
$ sudo npm install -g ionic@5.4.16
$ sudo npm install -g native-run cordova-res
$ sudo npm install -g @angular/cli
```

## Installing Android SDK or Android Studio

- 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>
- 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



## 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 Tab

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.

### Web Page

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

### About Tab

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.

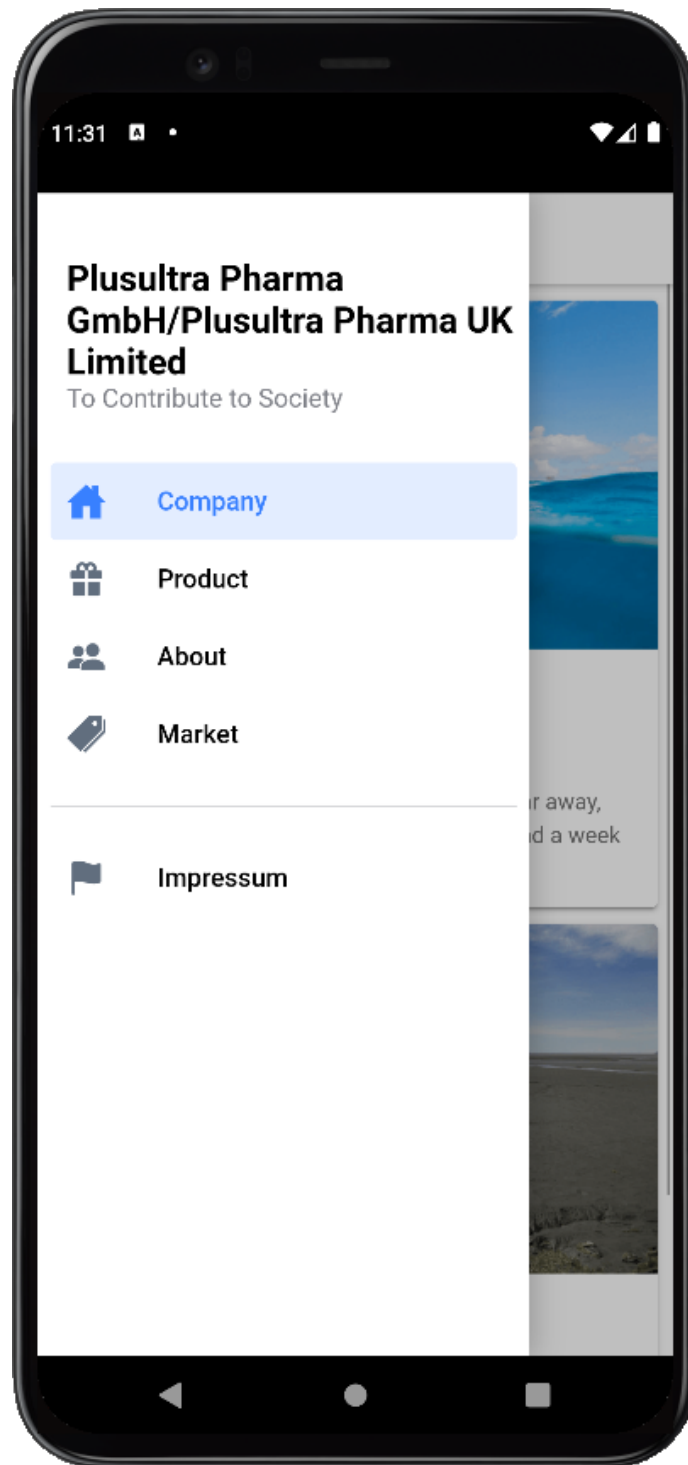


Figure 3: Side Menu

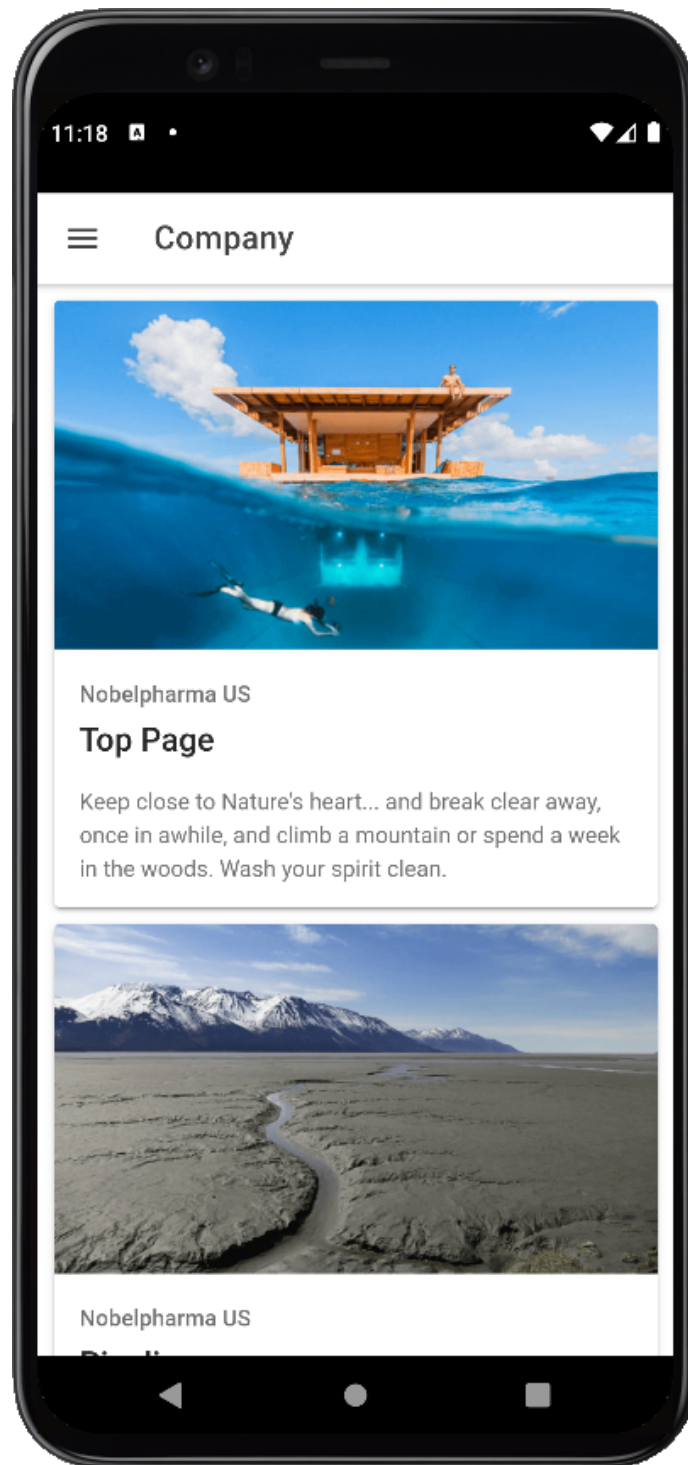


Figure 4: Company Screen

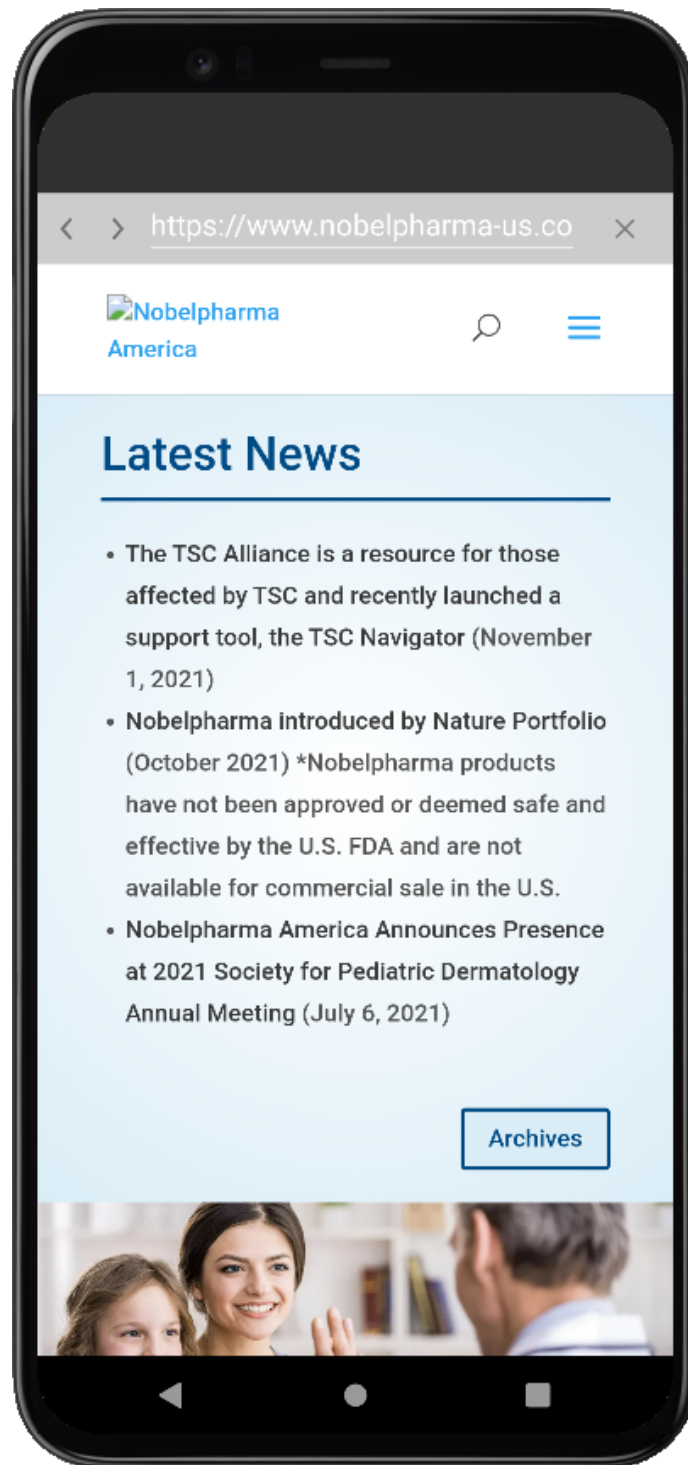


Figure 5: Company Webpage



Figure 6: About Screen