Detector Application

How It Works

After the user navigates to Detector tab, they can tap/click on the camera button to open up the device's camera. After taking or selecting a photo, it's stored permanently into the device's filesystem. When the user reopens the app at a later time, the photo images are loaded from the filesystem and displayed again in the gallery.

Feature Overview

- App framework: Angular
- UI components: Ionic Framework
    - Camera button: Floating Action Button (FAB)
    - Photo Gallery display: Grid
    - Delete Photo dialog: Action Sheet
- Native runtime: Capacitor
    - Taking photos: Camera API
    - Writing photo to the filesystem: Filesystem API
    - Storing photo gallery metadata: Storage API

Configuration

- Template

  ```
  $ ionic start detector sidemenu --type=angular --capacitor
  $ cd detector

  ## Installing Capacitor and PWA frameworks
  $ npm install @capacitor/camera @capacitor/storage @capacitor/filesystem
  $ npm install @ionic/pwa-elements

  ## Generating photo service template
  $ ionic generate service services/photo

  ## Adding platform
  $ ionic cap add android
  $ ionic cap copy
  $ ionic cap sync
  ```

- Splash screen resource script

  ```
  ## Adding resources
  $ npm install cordova-res --save-dev
  ## Add "resources": "cordova-res ios && cordova-res android && node scripts/resources
  ## resources.js file to scripts/resources.js
  $ sudo chmod -R 777 scripts/resources.js
  ```

Figure 1: Detector Application

```
$ npm run resources
```

Running in emulator

```
$ ionic cap run android -l --external
```

Application overview

After opening the application, click the 'Camera' bottun. Then, one can take the photo and can analyze it.

Reference

- https://ionicframework.com/docs/angular/your-first-app
- https://analyticsindiamag.com/10-face-datasets-to-start-facial-recognition-projects/
- https://www.positronx.io/ionic-calendar-ui-tutorial-examples-from-scratch/
- https://ionicframework.com/docs/v3/ionicons/

History

- Ver. 0.1 - 2022.Apr.08, Prototype for a testbed.
- Ver. 0.2 - 2022.Apr.13, Prototype. Using sidemenu
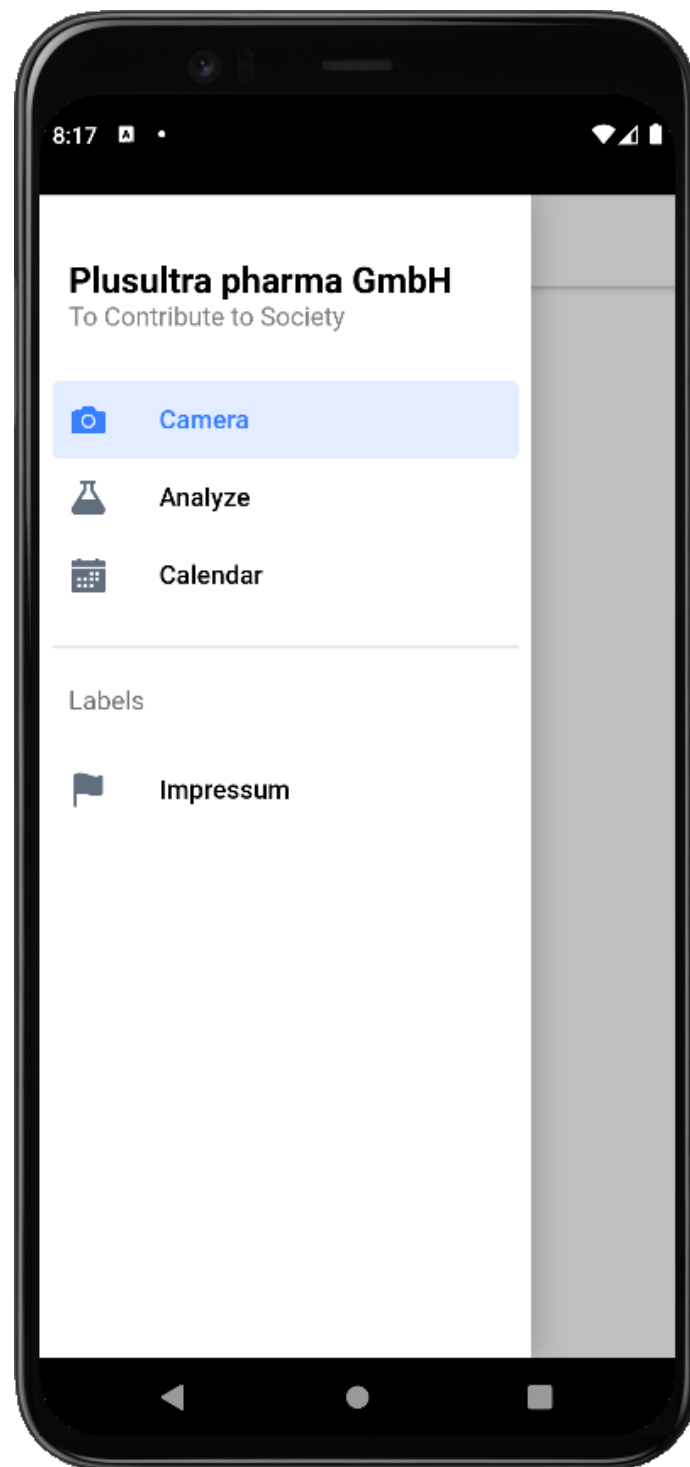
License

Figure 2: Detector Mode
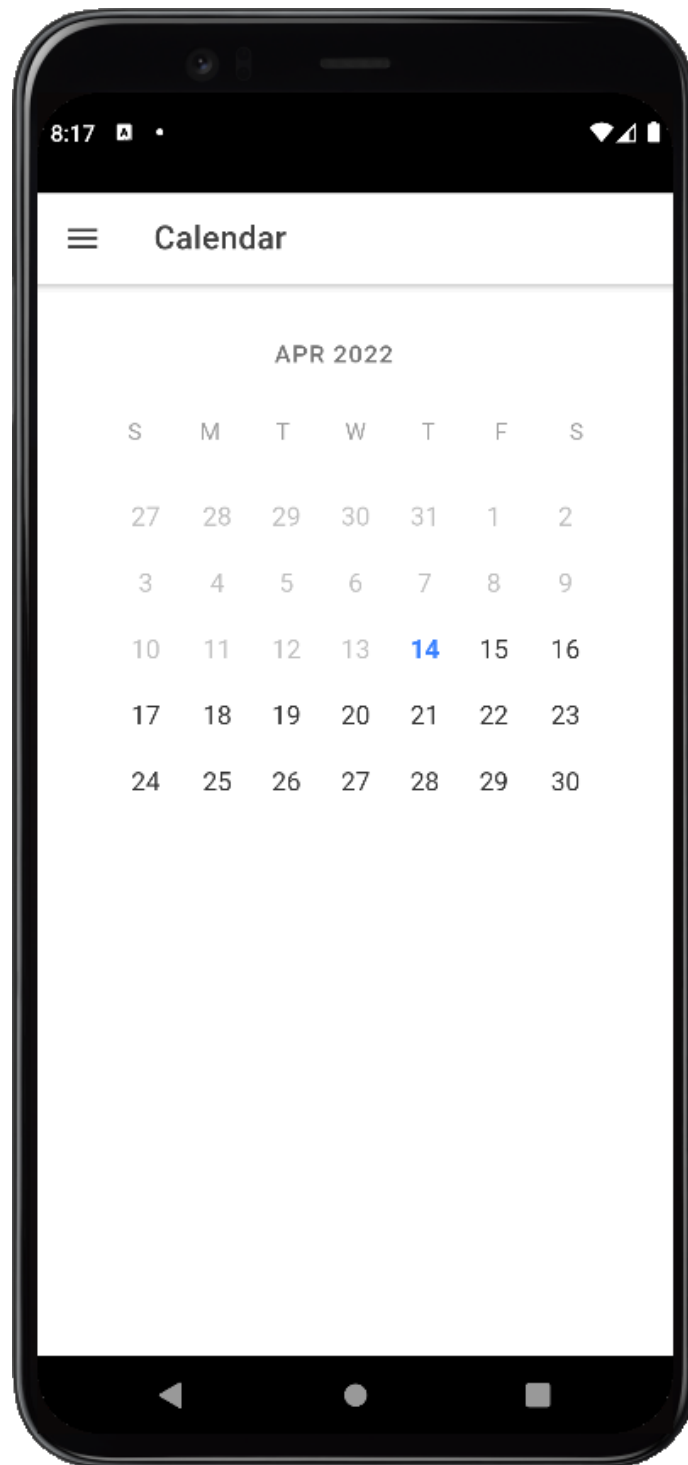
Figure 3: Sidemenu

Figure 4: Gallery

Figure 5: Gallery

2:28

Impressum   CLOSE

Plusultra pharma

Plusultra pharma GmbH

Fritz-Vomfelde-Str. 36
40547 Düsseldorf
Germany

Phone: +49 (0)211 900 667 99
Fax: +49 (0)211 900 667 10
E-Mail: pup-info[at]plusultra-pharma.de

Managing Director: Takahiro Yamasaki

Commercial Register: Registration Court Duesseldorf
Register Number: HRB 89735
VAT Identification Number: DE 330630562
Competent Supervisory Authority: District Government
Duesseldorf

Face Detector Application, version 0.1
Developed by Dr. Gen Kawamura
License: Apache 2.0

Figure 6: Impressum