

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’ button. 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/>

History

- Ver. 0.1 - 2022.Apr.08, Prototype for a testbed.

License



Figure 2: Detector Mode
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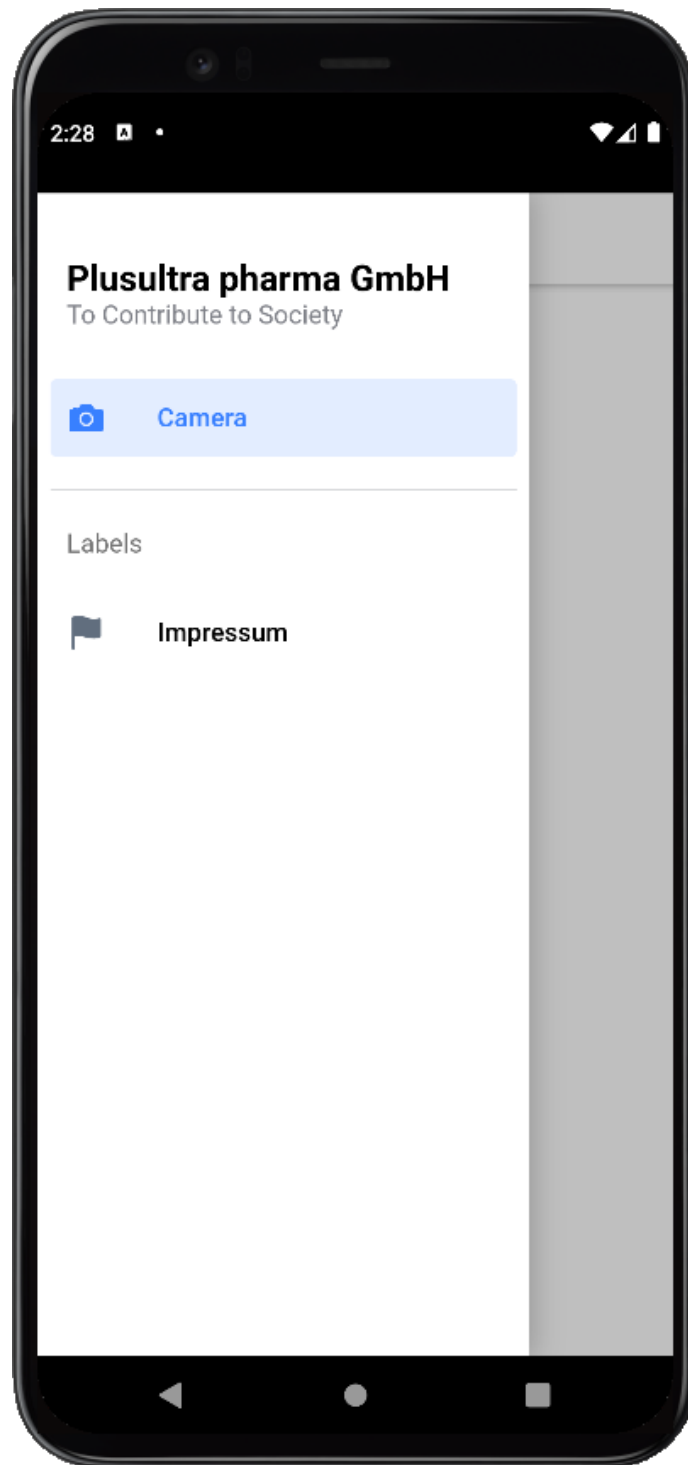


Figure 3: Sidemenu



Figure 4: Gallery
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Figure 5: Impressum