

User's Guide

by Ilie Galit – s1628465

Introduction

This user guide will go over the core features in the app, what those features do, instructions on how to navigate the app and its features.

Target Audience

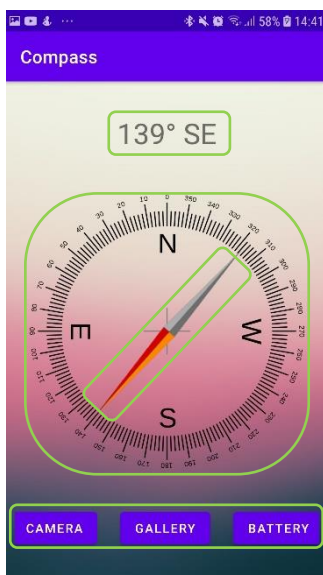
The main target audience of the app are users interested in an application capable that acts as a compass, provides information regarding the device's battery, takes pictures, and saves them with the name of the file containing the bearing of the device.

Core Features in the App

This chapter will go over the main features provided by the app.

Compass Feature

The compass feature starts by default when app starts. It consists of: a stationary compass dial, compass hands/arrow that move depending on the orientation of the device, and text indicating the value and direction displayed by the compass hands.



Orientation and
direction of
device

Stationary dial
and moving

Navigation
Buttons

Figure 1: Compass

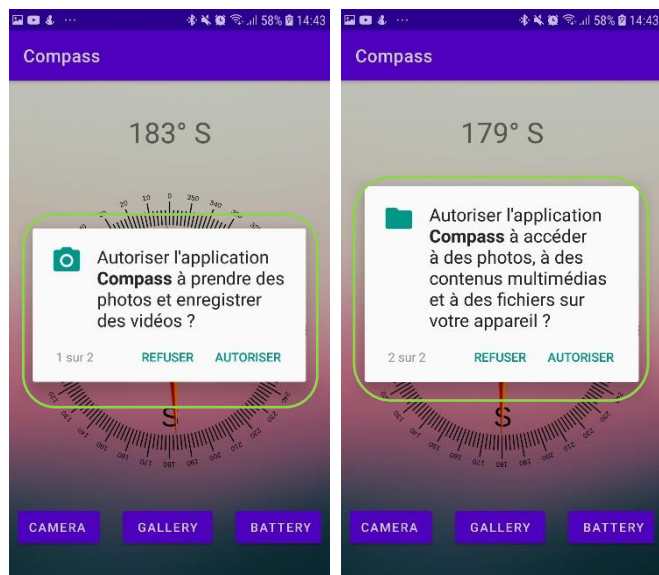


Figure 2: Permissions being asked for the Camera

Camera Feature

The Camera Feature can be accessed by pressing the Camera Button. When accessing the camera for the first time, the user will be asked to grant permission to the app to use the camera, read and write to the public media directory. If permission is granted, the user will be able to use the camera, otherwise, they will be limited only to the Compass and Battery features. If the user takes a picture and saves it, the file will be saved to the public media directory, meaning that these will be accessible from the phone's gallery app. The file's name will consist of the orientation and direction at which the picture was taken followed by a unique ID given by the phone ensuring no file gets overwritten. An example of the filename can be seen in Figure 5.

Battery Feature

The Battery feature can be accessed from the main Compass feature by clicking the Battery Button. This will then display all publicly available battery information to the application as seen in Figure 4.

Gallery Feature (extra feature)

The Gallery Feature allows the user to pick any picture from the public media directory and display it within the app. If the chosen picture was taken within the app, the title will display the orientation of the device when the picture was taken, otherwise it displays the actual picture filename. The user can choose a different picture by clicking the button on the screen. This feature is shown in Figure 3.

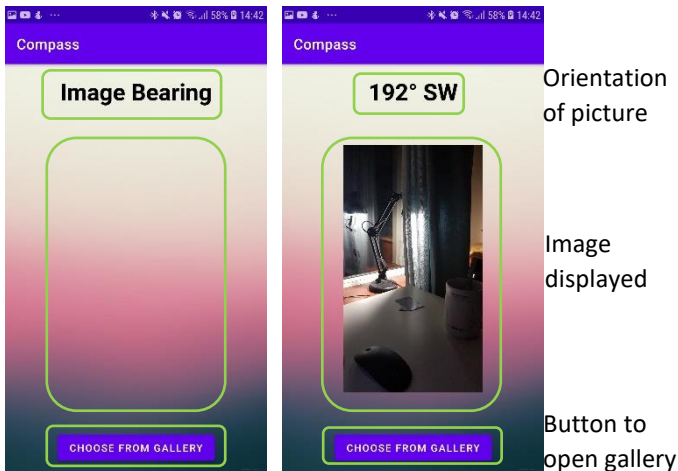


Figure 3: Gallery View. Before and after choosing picture from Gallery

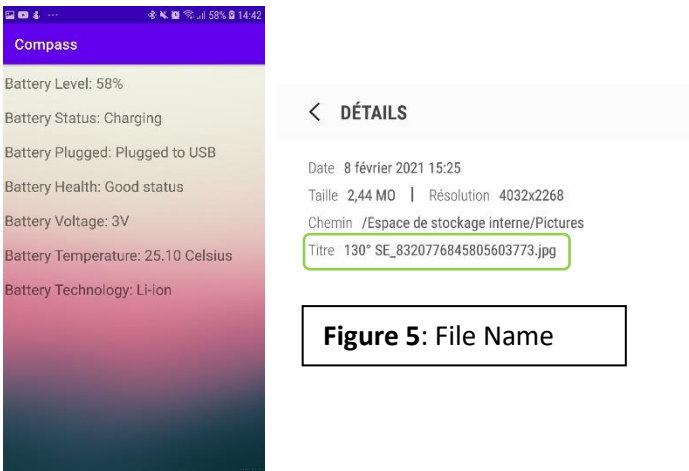
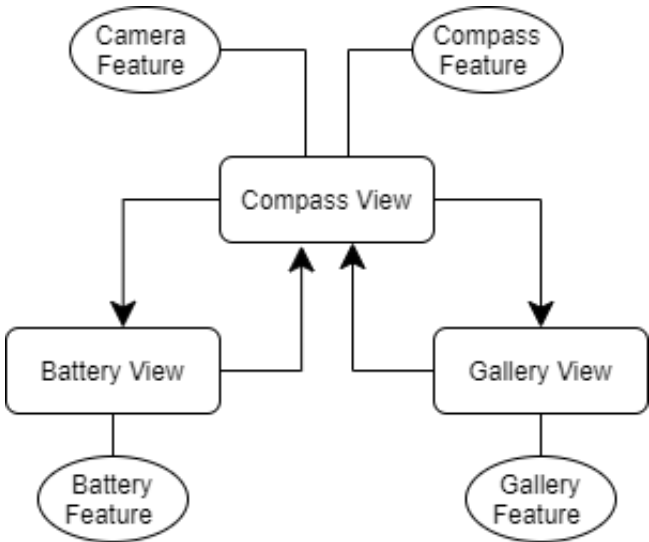


Figure 4: Battery View

Navigation

The app itself can be accessed through by pressing the App Icon in the phone’s menu. The app has its own icon and unique name making it easier to distinguish. The compass view is the default main view of the application (Figure 1). All other views and features can be accessed by using the Navigation Buttons (Figure 1). To get back to the Compass View, the user can simply use the default back button on the phone. All navigation routes between views and how to access any features can be seen in the diagram from Figure 6.



Troubleshooting

- If the accuracy of the sensors is low, the user will be informed through a popup message.
- If the device is lacking necessary sensors the user will be informed that the compass feature will be disabled.
- If the user denies camera and media file permissions, the user will not benefit from the camera and gallery features but will still be able to use the compass.