#### • Positive example: Tapo

- Introduce the app's context and purpose: it's an app that allows to set up, manage and control the Tapo's smart devices (such as the security cameras, smart plugs, smart lightings and more.
  - And this app is the one that we have chosen as well-designed example, because it follows these principles:
- <u>"content on top"</u> was respected, since:
  - the toolbars is placed at the bottom, following the iOS guidelines so there is no conflict with the system controls;
  - the content is placed at the center, inside the thumb zone, so it is more easier to reach;
  - the data modification controls ('plus' button in the home screen, and 'setting' button in the item's details screen) are positioned outside the thumb zone, at the top-right corner [following the rule of thumb], because in this case, the data modification operations are not frequently used



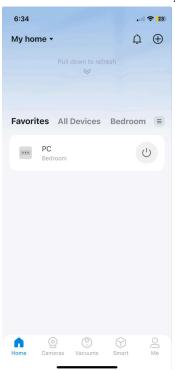
# o <u>Just-in-time interfaces</u>

The list, containing the items, shows, for each item, only the important informations for the user to distinguish them, so then tapping on a item, in which it was followed the *progressive disclosure* principle, will be shown more details about it, in addition, also the button 'Show more', shows more details



### Gestures

- There is the swipe gesture (no conflict with OS's gestures) to come back to homepage, without needing to tap the button positioned in the top-left corner
- There are not garbage taps (since this action adding no new informations), but swipe gestures are presents for changing the pages ('Favorites' 'All Devices' 'Bedroom');



# **NEGATIVE DESIGN: ITALO**

# - NEGATIVE ASPECTS

## Homepage:

- CAROUSEL MANAGEMENT: carousel components should be avoided if
  possible because they cause the loss of the overall vision and users do not
  know what comes before and after. This carousel is static which is a good
  thing because every user can read the content without caring about timers
  but, on the other hand, users are forced to do a lot of swipes to find the
  information.
- CONFLICT WITH OS GESTURES: it is possible to open the hamburger menu in two ways: tapping on the top-left icon or using a flick gesture (quickly brush surface with fingertip) from the left border to the right. The last option is problematic since the movement works only if we start the action in the highlighted red box area, not before or after that zone. Since gestures by definition should not require high precision and, day by day, they become a sort of reflexes this is problematic. If we do not start the movement from this small area the gesture fails or the OS manages the movement as a "go back" option that can even close the app, creating so much frustration in users.
  Android gestures source:

https://www.androidpolice.com/how-to-use-gesture-navigation-on-android/#:~: text=How%20to%20use%20Android%E2%80%99s%20gesture%20navigatio

#### My Profile:

n

- LOSS OF THE BOTTOM MENU IN INTERNAL PAGES: there is to note that
  every time we open an internal page the bottom menu, containing the main
  app functionalities and pages, disappears. This in fact can make the users'
  experience more stressful because every time a user wants to visit another
  page is forced to go back to the homepage using the "go back option" (top-left
  arrow) or opening the hamburger menu with the previously discussed
  limitations.
- DANGEROUS OPERATIONS IN THE COMFORT ZONE: there is a problem
  in the "Profile" page and in its subpage "Profile Data", both logout button and
  delete account button are placed in the comfort zone, this can represent a
  problem since these operations are potentially dangerous so they should be
  both placed outside the comfort zone avoiding so dangerous taps.

# + POSSIBLE SOLUTIONS:

by users.

•	entry points (for more detailed pages) on which users can tap if interested, this avoid to explore the content of the carousel through many swipes. These buttons can be placed in the homepage or in a new dedicated page (e.g. "News" section).
•	CONFLICT WITH OS GESTURES $\square$ since the Italo gesture is overlapped with the OS one, a possible solution could be just removing the gesture option and let the users tap on the menu button to explore its content.
•	LOSS OF THE BOTTOM MENU IN INTERNAL PAGES   it should appear in every page of the application, in this case users' experience is less stressful.
•	DANGEROUS OPERATION IN THE COMFORT ZONE   most dangerous operations should be put outside the comfort zone in order to avoid mistakes