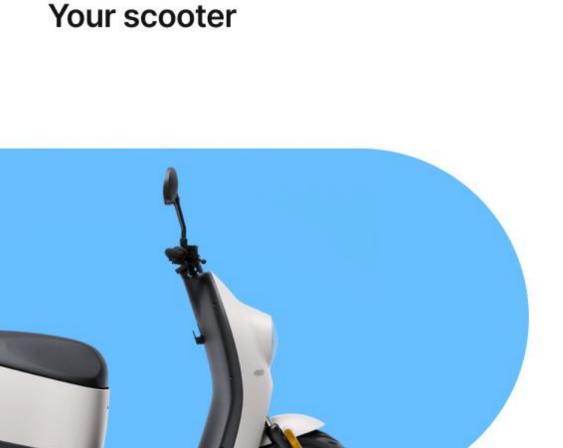
# Scoter without keys

Providing a way for customers to turn a scooter on and off using nothing but their smartphones







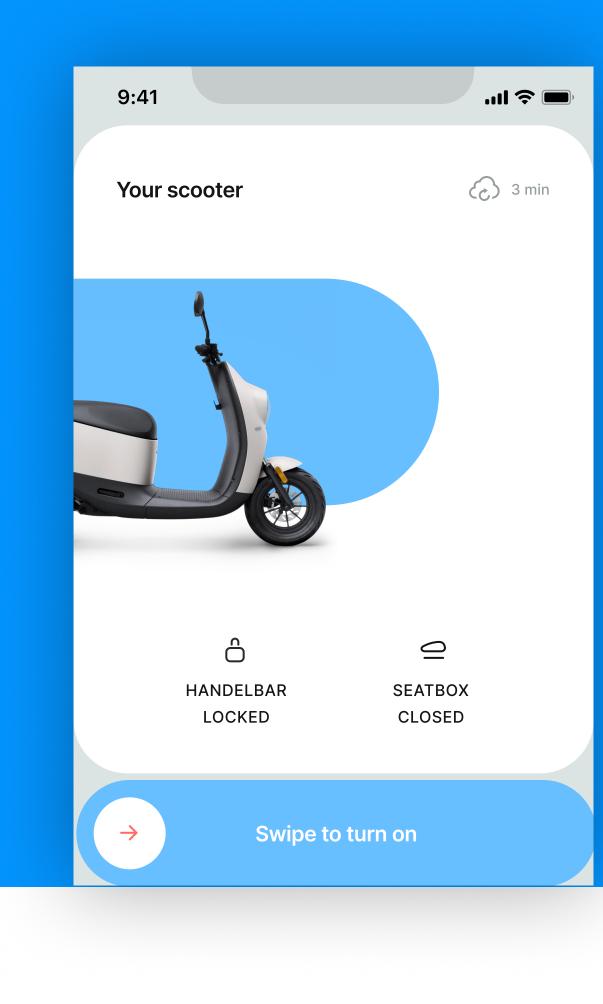
3 min

### Key customer pain Based on our user research, customers don't

find the key card very practical. It's easy to damage and lose, and pulling it off of their pockets and wallets slows them down. This project is an alternative to the key card.

Context

This use case was made for unu GmbH during Q1 2022, that produces electric scooters, designed and engineered in Germany. This scooter is connected to the cloud and supported by an app that offers access to smart features. For this project, I worked closely with a Product Manager and an external app development agency.

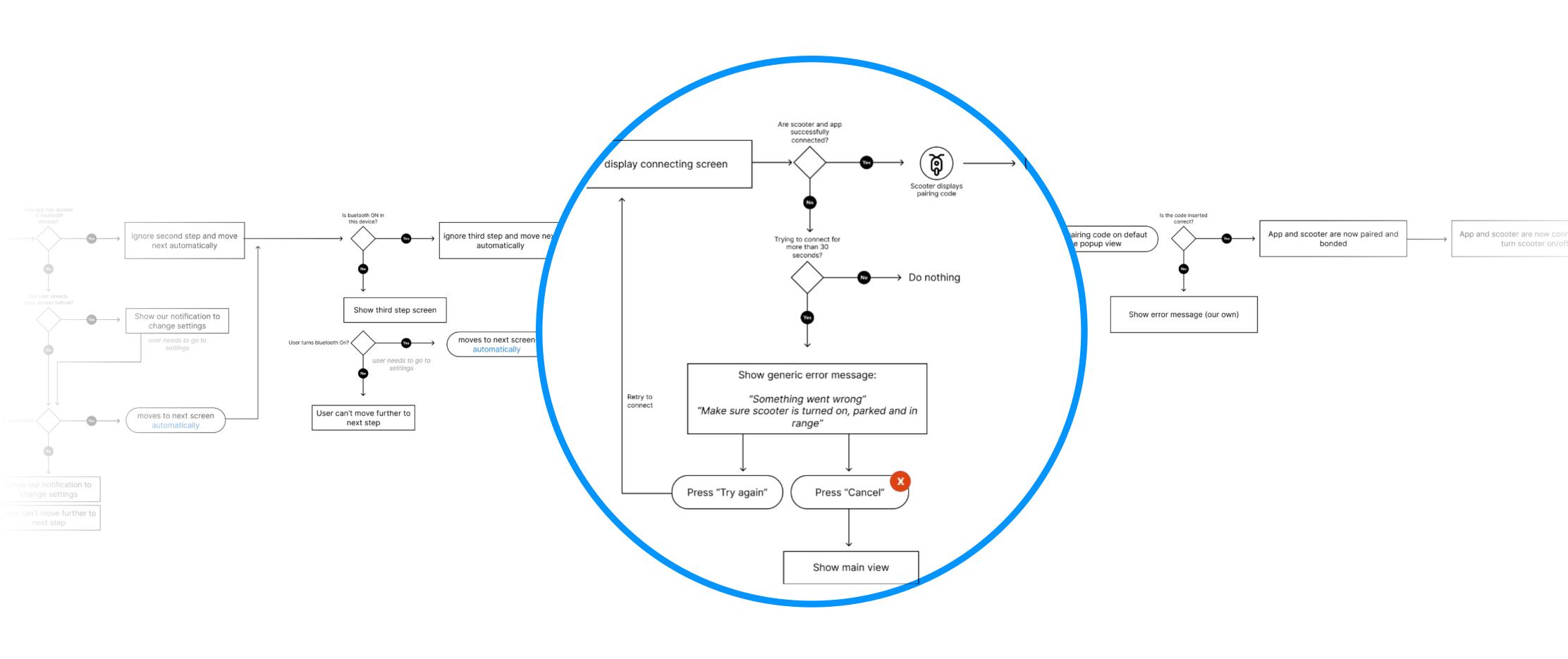


## orototyoe Try here

## Once I took over from the Design Lead

**Process** 

assigned to the project, I started by mapping out the underlying flow on top of which this capability would lie: the existing Bluetooth pairing flow between the scooter and the customer's device. The goal was to leverage my awareness about the opportunity space, uncover unknowns and ambiguity, and to frame the insights from the user research mentioned before.



F USER IS NOT PAIRED

Bluetooth not paired

#### understand the Bluetooth technology and all the different states the devices can have.

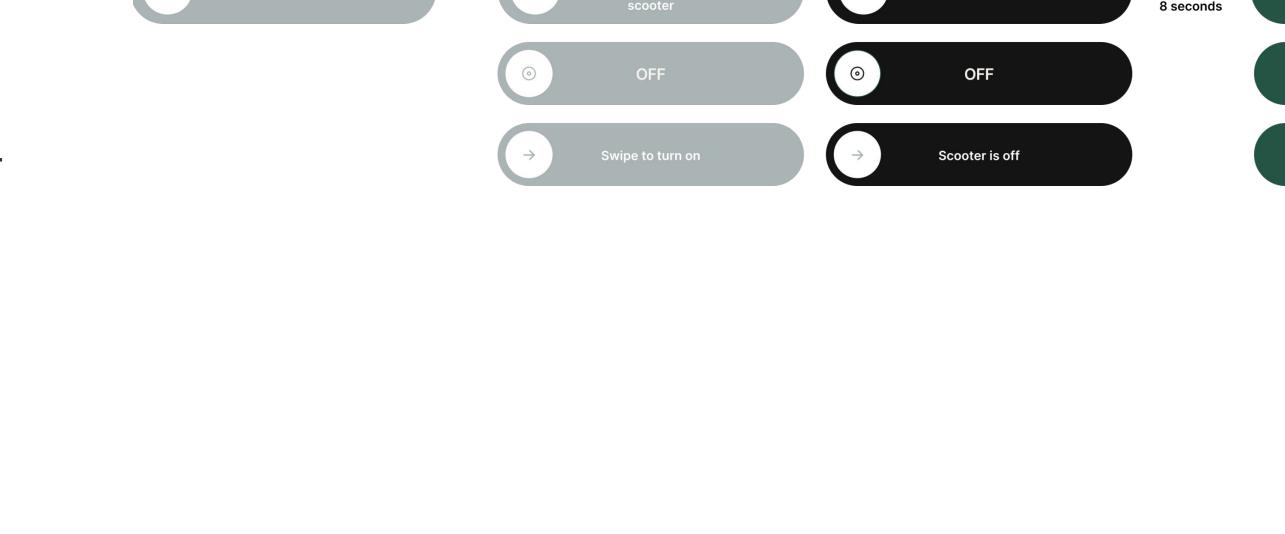
**Challenges** 

Another challenge was to ensure that the new feature design worked efficiently, without being disruptive for the existing customers.

One of the biggest challenges was to

I'm a designer that is able to adapt

design solutions to tech limitations but



(Scooter is off)

Disabled, bluetooth is off on phone

Disabled, not in range

IF USER IS PAIRED

IF USER IS CONNECTED

Scooter off and in range

Swipe to turn on

Scooter turning on...

loading..

3 min

#### in this specific usecase I wanted to show the devices connectivity despite tech limitations. I believed this would

vehicles.

**Decisions** 

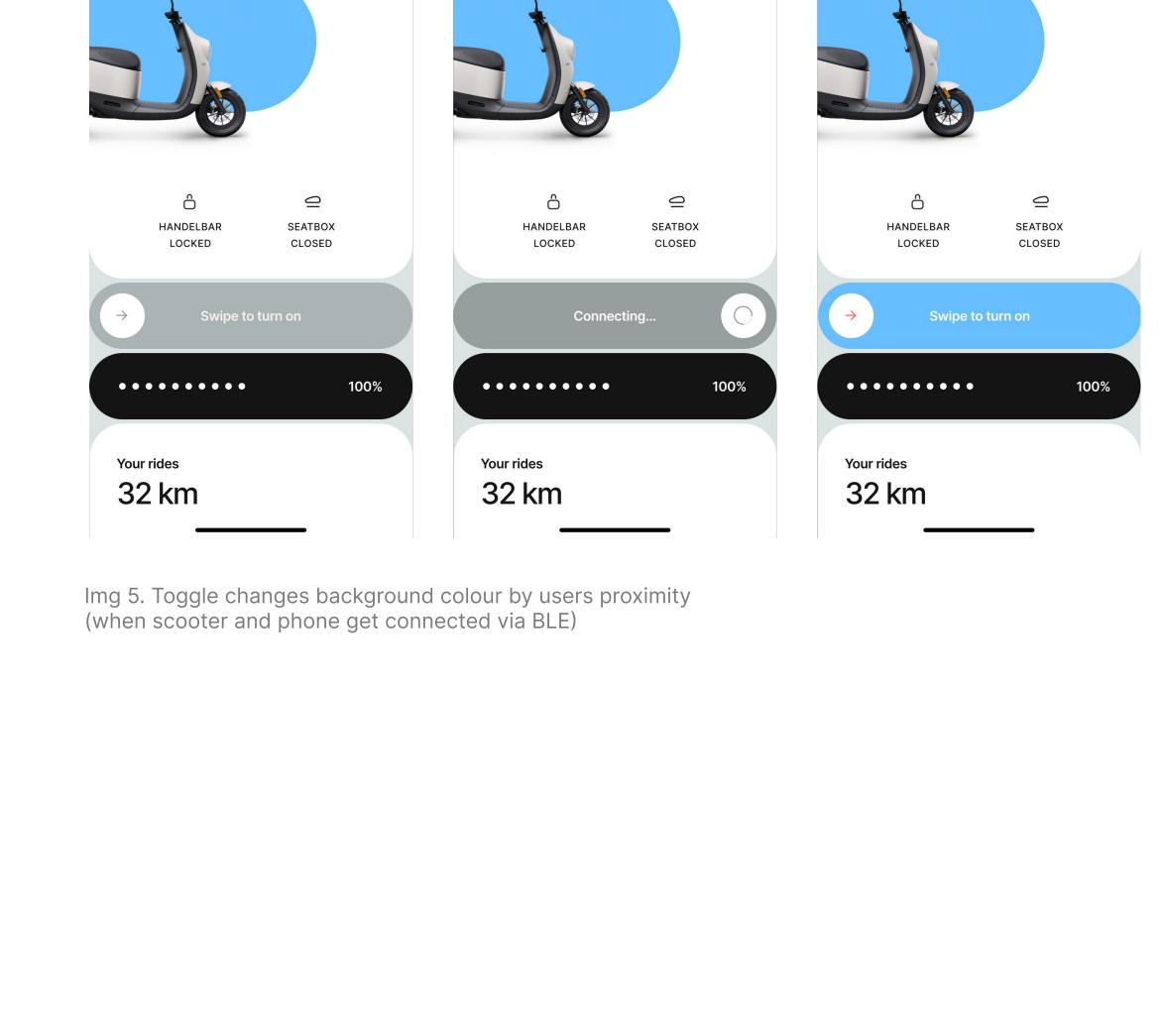
improve the experience and enable the user to always know if the scooter is or not connected and able to turn scooter On/Off (img. 5). We decided to use a toggle as a design element because we wanted to make sure the user turns the scooter on/off with an obvious and intentional gesture. We couldn't allow the user to turn it on/

off by accident with a simple touch. The

mobility market, for example for sharing

toggle is also a known pattern in the

To support this decision usability testes were also conducted internally and externally with customers.



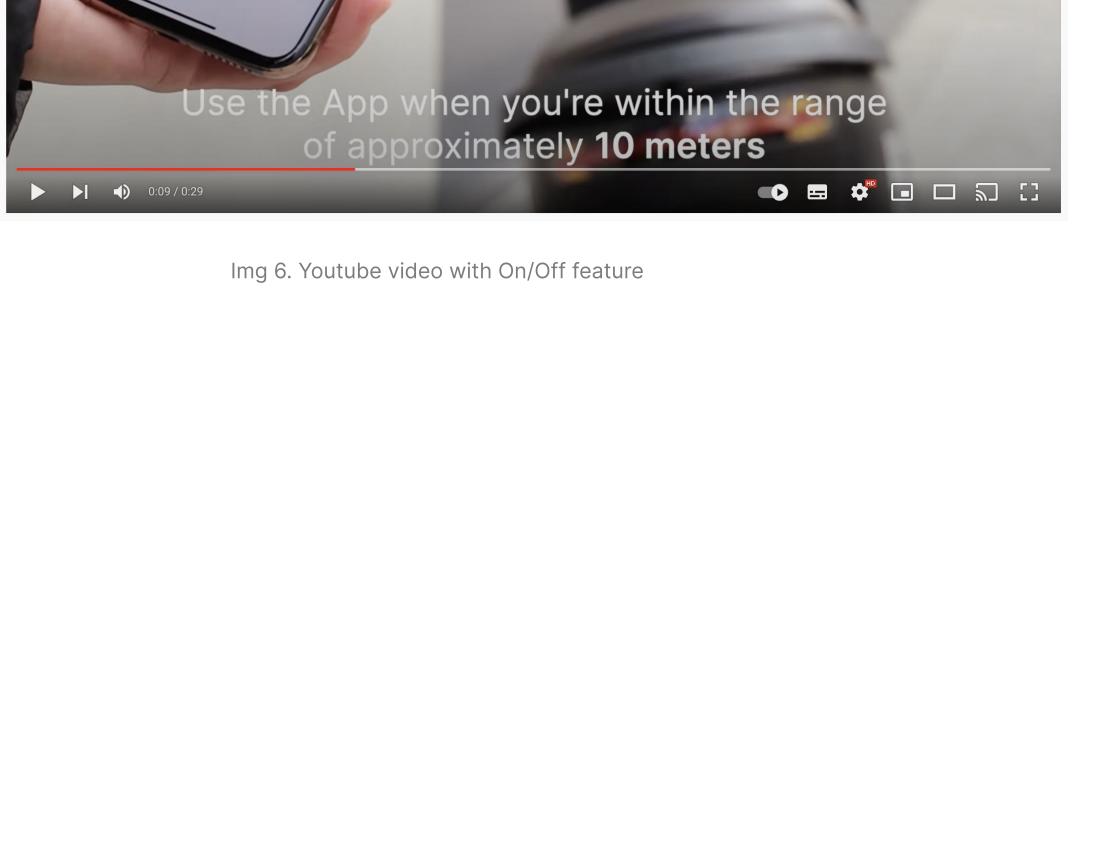
(2) 3 min

Your scooter

(2) 3 min

Your scooter

Your scooter



(2) 3 min

I also made a video to showcase the

new feature for the entire team that

later was used for marketing purpose.

Marketing video

You can see it here.

Your scooter

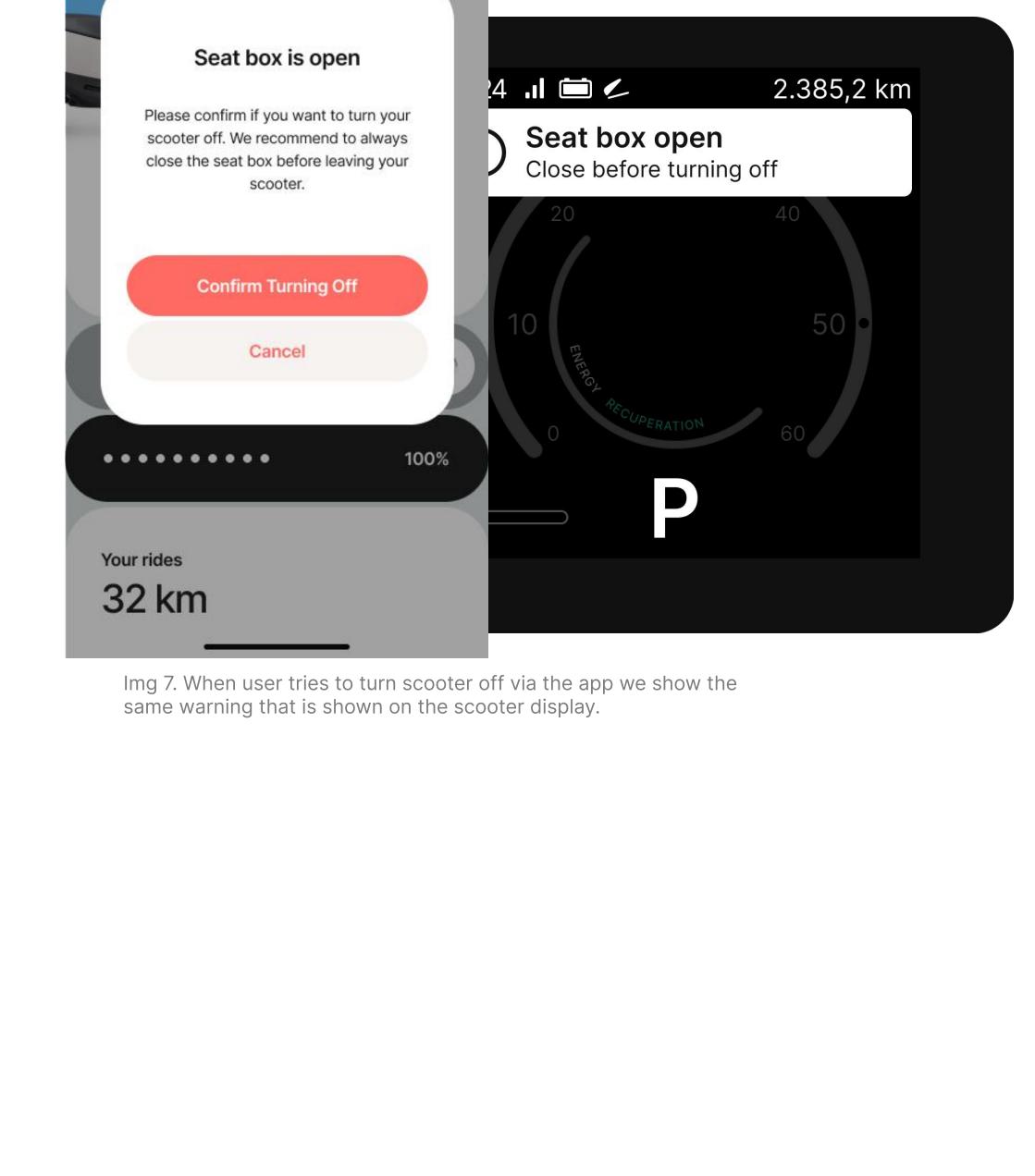
Learnings

We are continuously improving the

modals based on cases that have been

experience by adding some error

recently found or reported.



## Conclusions and impact

At the end, the team and myself were happy with the final solution that was developed. I was able to design a complex behaviour hidden behind a minimal UI.

This feature was launched in April 2022 and well received by our customers. We got a lot of positive feedback and verify that 80% of the customers are using the on/off feature in the app. A later research in 2023 shows that this is the most used feature in the App.

### Thank you, Fabienne Pimenta