



SPARK KEYS

Convenient and high-quality software for smart locks

Development service

Powerful secure back-end engine and custom admin side for managing smart locks

Business niche

Smart locks for offices and personal use

Time spent on the project

1900 hours

Technologies we used

React/Redux, Django, Python, Swift, Firebase, Kotlin, NFC, MVVM Architecture

CHALLENGE

Not all smart locks can provide an extensive list of settings, a high degree of protection, and at the same time the ease of use.

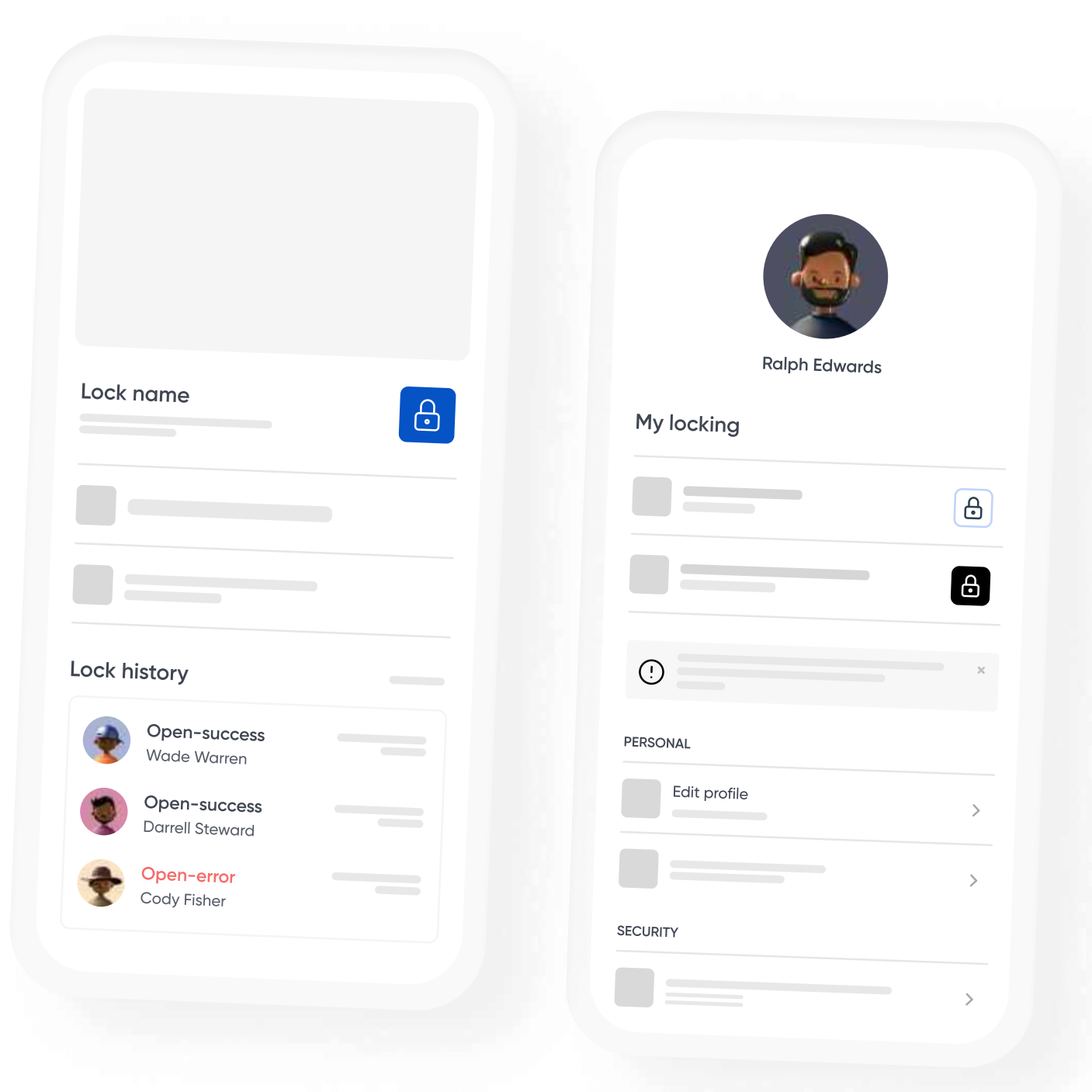
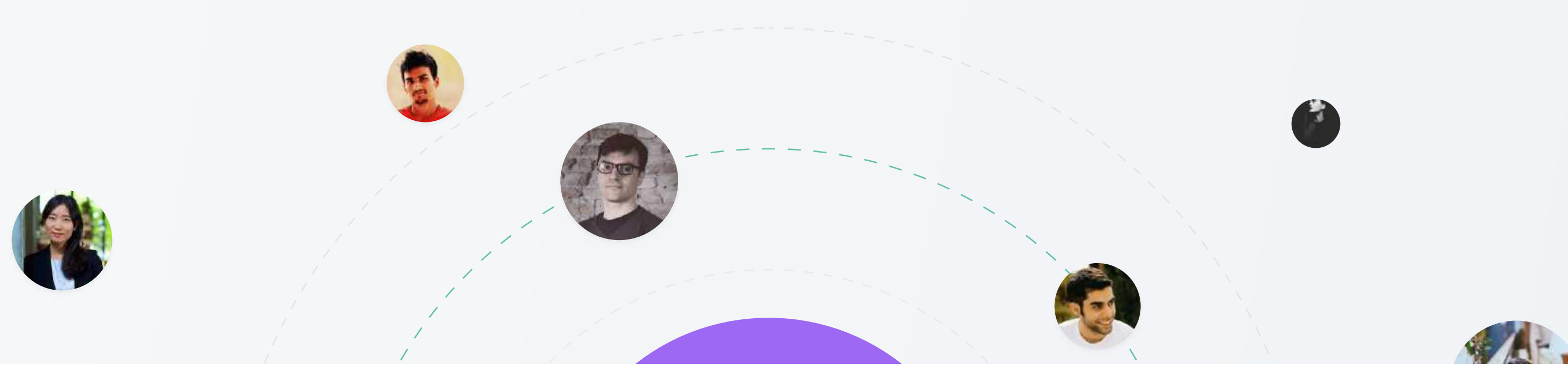
Just imagine, now you do not need to carry a huge bunch of keys with you, because now all the keys are on your smartphone! You can easily give access to your devices, see who and when opened the door, and even remotely open the lock if it has a Wi-Fi module.

NFC label simplifies the daily life, you won't have to look for the right key for a long time, it will be enough just to bring your smartphone to the lock and the application will automatically recognize the device and open the door.



Client/Target audience

The target audience of the product covers a wide range from ordinary users to office, real estate and business owners. Thanks to the Spark Keys mobile app, you can manage your locks, get a lot of settings options and share access with your employees or family.



Product overview

To make the daily life of our users easier, we have developed a mobile application for iOS and Android, which allows our users to have a positive experience using smart locks.

The Spark Keys app allows users to interact with the smart lock via Bluetooth, Wi-Fi, RFID, or NFC technology. Also, our team conducted testing at every stage of development using manual, automated and security and access control testing. Owlabs managed to create the most user-friendly UX & UI design and environment due to high-tech custom solutions.

Important features

Our huge amount of settings give the users a lot of options to manage their smart lock. The owner of the lock can track the history of logging, this will allow to know exactly who opened the door and at what time.

It will also be useful to be able to issue temporary or permanent access to other user. The owner of the lock can easily give or remove access to the device to another user even while in another city or country!

The user can add a device photo, assign a name and add an address, after which device will be displayed on the map in the application, this will make it easier to find the right electronic key.



Our development team

Our development team consisted of 9 specialists. Despite the small team, we managed to implement the project within established deadlines.

1 Project manager	1 QA specialist	1 Designers
2 Mobile developers	2 Front-end developers	3 Back-end developers

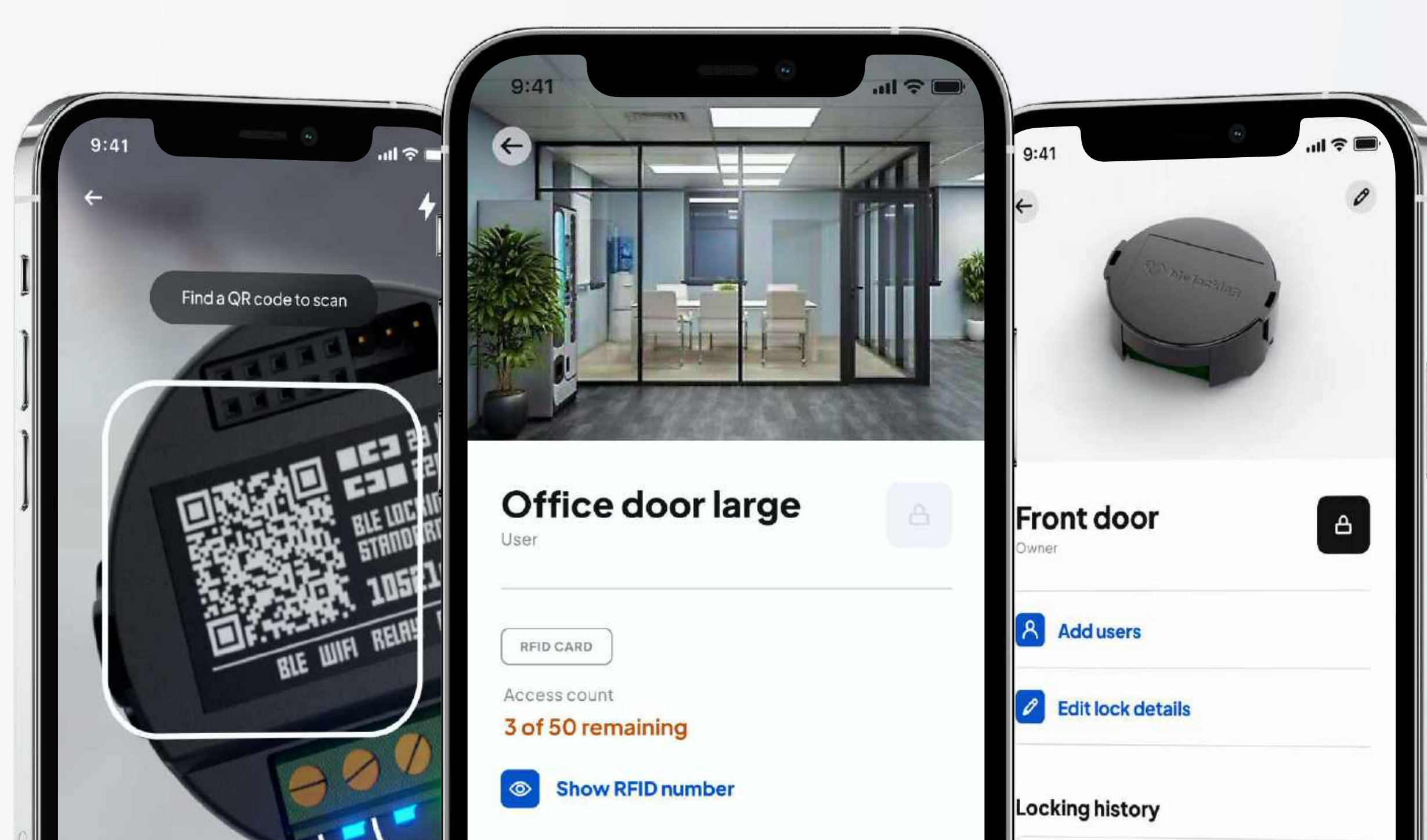
Our approach

We made sure that users get the most positive and secure experience using our product. Our team has developed solutions for 3 platforms: for iOS, Android (mobile development) and also a custom admin side for web version (web development). To do this, we have selected the following tools:

 React JS This is a JS library for creating user interfaces, we used it for frontend development	 Redux This is a predictable state container for JavaScript apps	 Django This is a Python-based framework for developing web applications with which we created the backend	 NFC It is a wireless technology that enables the exchange of data between devices over about a 10cm distance
---	---	---	--

Solution overview

Our high-tech custom solutions have made smart locks even more convenient and secure. The users can simply download the updated product created by Owlabs mobile app development team, log in and simply access their devices.

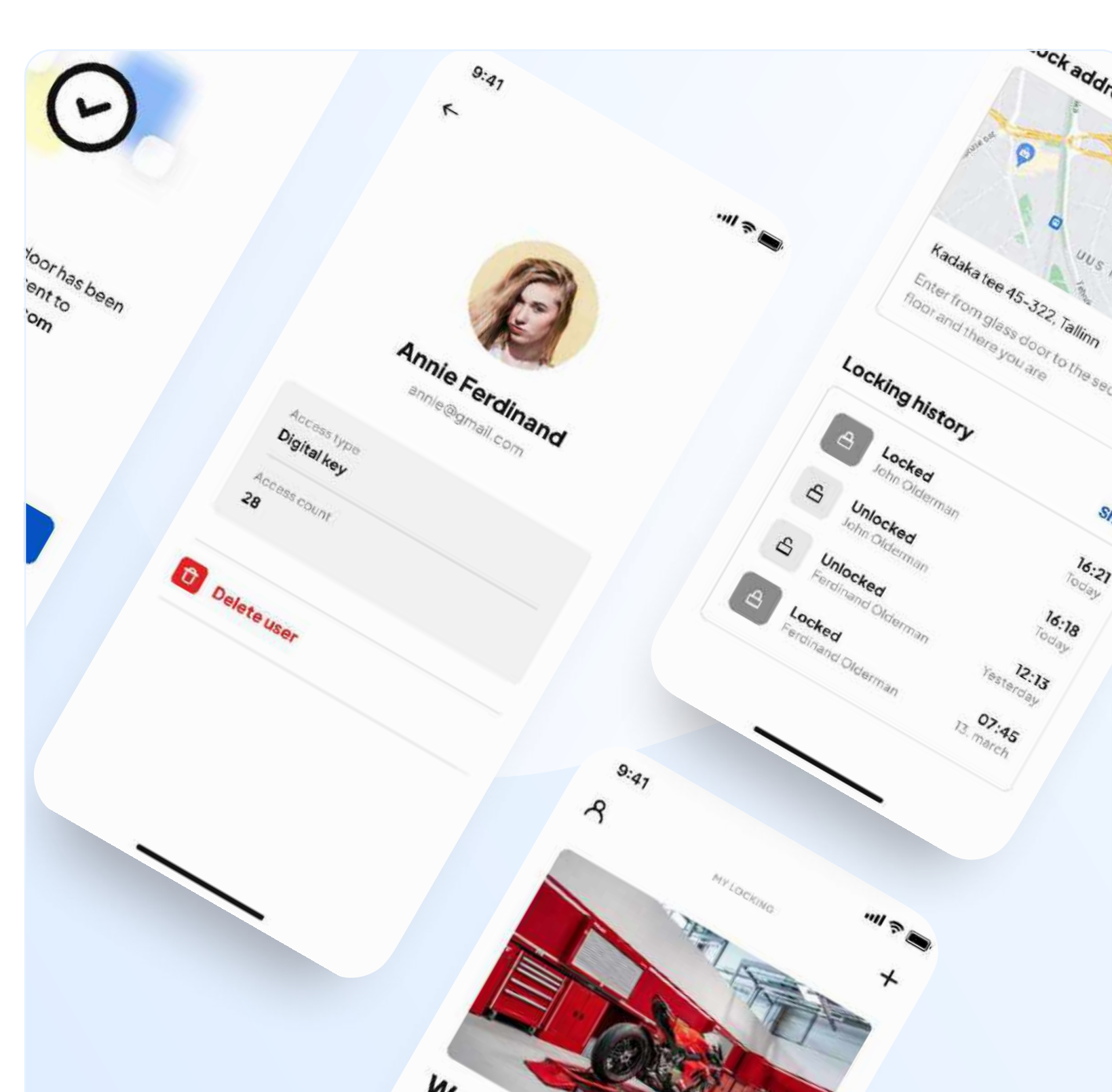


Owlabs team made it possible for users of the old application to easily switch to the new one. Huge bunches of keys and the fear of losing them associated with them are a thing of the past.

PM at Owlabs Ivan Seilvanov

Features of our application:

- Convenience. Just one click on a smartphone and the door will open! And you don't even need an internet connection;
- Flexibility. The user has a wide range of device settings and interaction options;
- Simplicity. The keys are always at hand, and our mobile application will allow you to keep track of all the keys shared by the user, as well as see each use;
- Reliability. All keys are securely stored on your phone and protected with our app;
- Globality. Even when away from home, the user can remotely open the lock or send a personal digital key to someone who needs it: for example, children or office staff.



Thanks for watching!

Talk to us and get your project start

www.owlabs.group +380 (99) 968 10 53 vitaliy@owlabs.group

