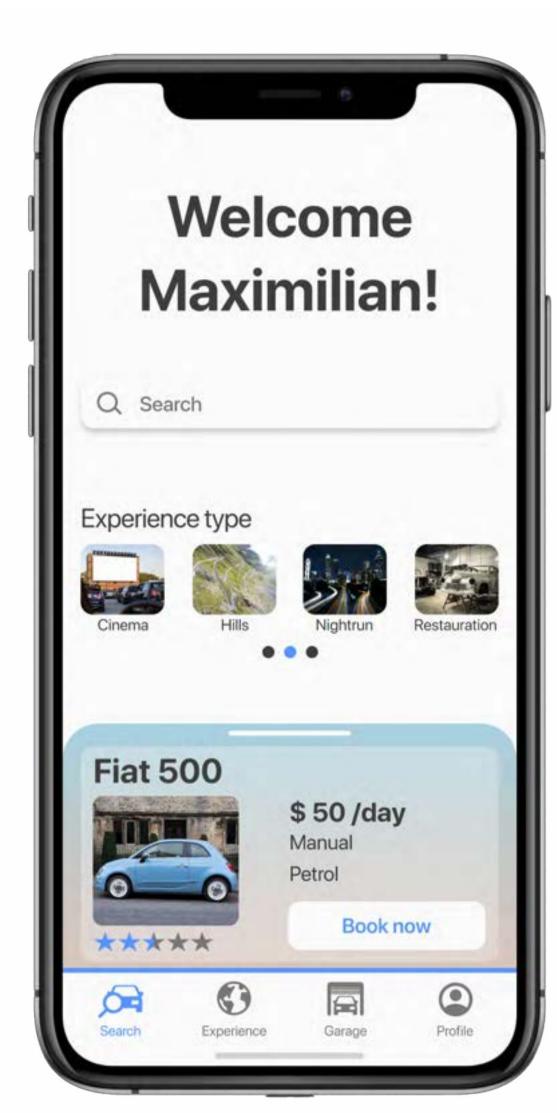
Facing the transportation problem

In 2019 - transportation in the city of Stuttgart was a big issue. Overcrowded, delayed and long detours in public transport, long traffic jams, insufficient parking solutions...

Our goal was to solve a part of this problem, and find a suiting solution. Maybe a too ambitious goal? You'll see, later.



THE CHALLENGE

The first part of the project was maybe the most difficult in retrospective. Facing a global problem with many big competitors can be very unsettling. The original premise was simple: Make the peoples lifes more easy with a **new** mobility solution. However, we quickly reealized, this won't be this easy, as we thought it would be.

Our main goals were:

- Adress our target user group, the digital natives with modern but timeless design.
- Design, inspired by state of the art design elements, with strong focus on ease of use to archieve an environment, the user is familiar with.
- Finding a new solution that doesn't existed before and that helps the end user in his daily life.

Own Car

THE START

After long research and brainstorming sessions in the team we collected the problems and divided them in the existing mobilty solutions to get a better overview.

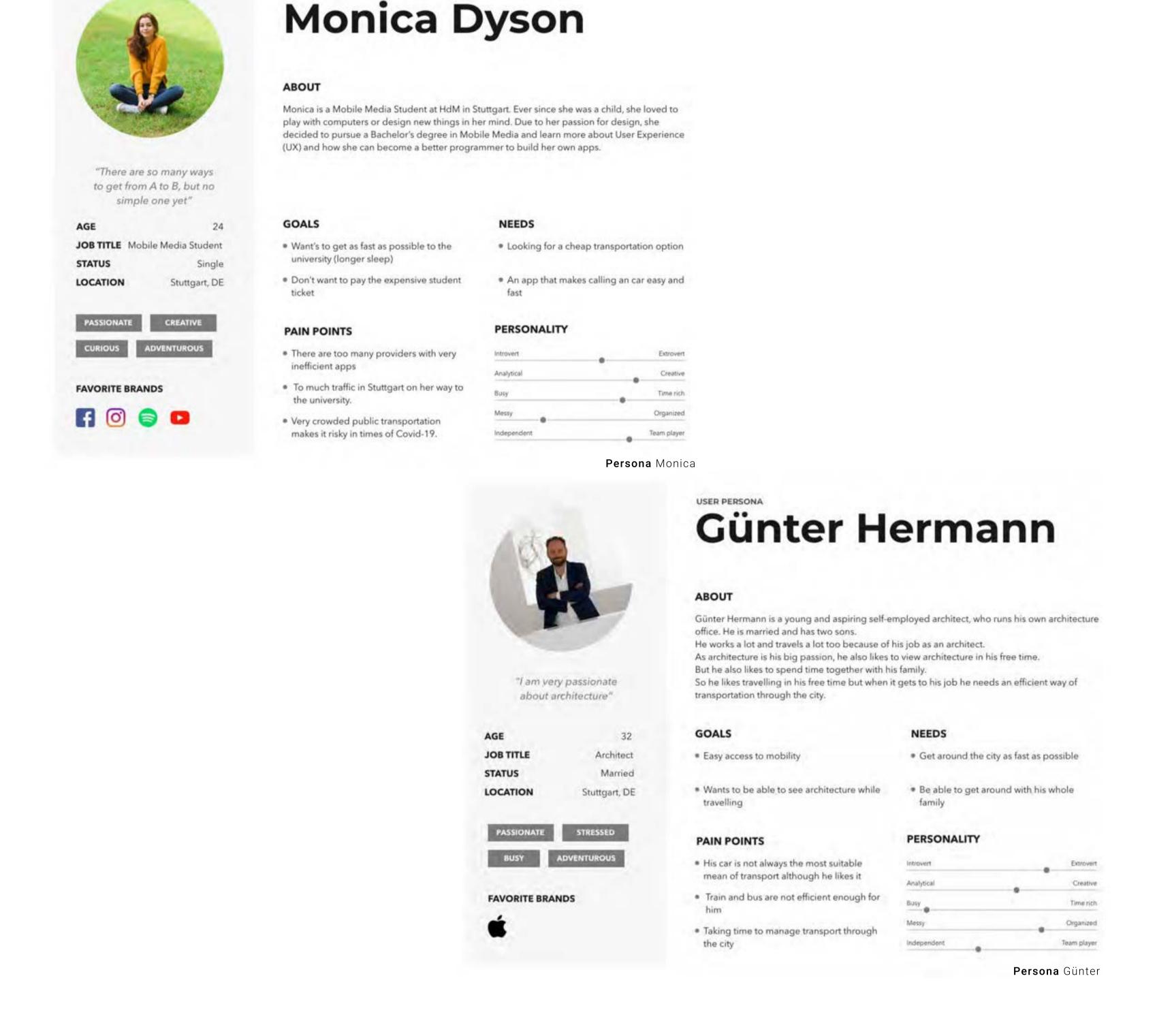
Taxi

Public Transportation Not available bad price perfomance very expensive limited to certain scheduled times finding parking spots bad order process too much traffic crowded (COVID-19) often just one passanger bad price performance most of the time allone in car not fast enought not economic no multitasking possible

PERSONAS

we are designing for, we developed our personas. You will find them often through the rest of the project. This helped a lot, because it was easy to have a look at the pain points and other important informations while discussing some points of the later on design. By personalizing our target group we had a much better understading of our audience.

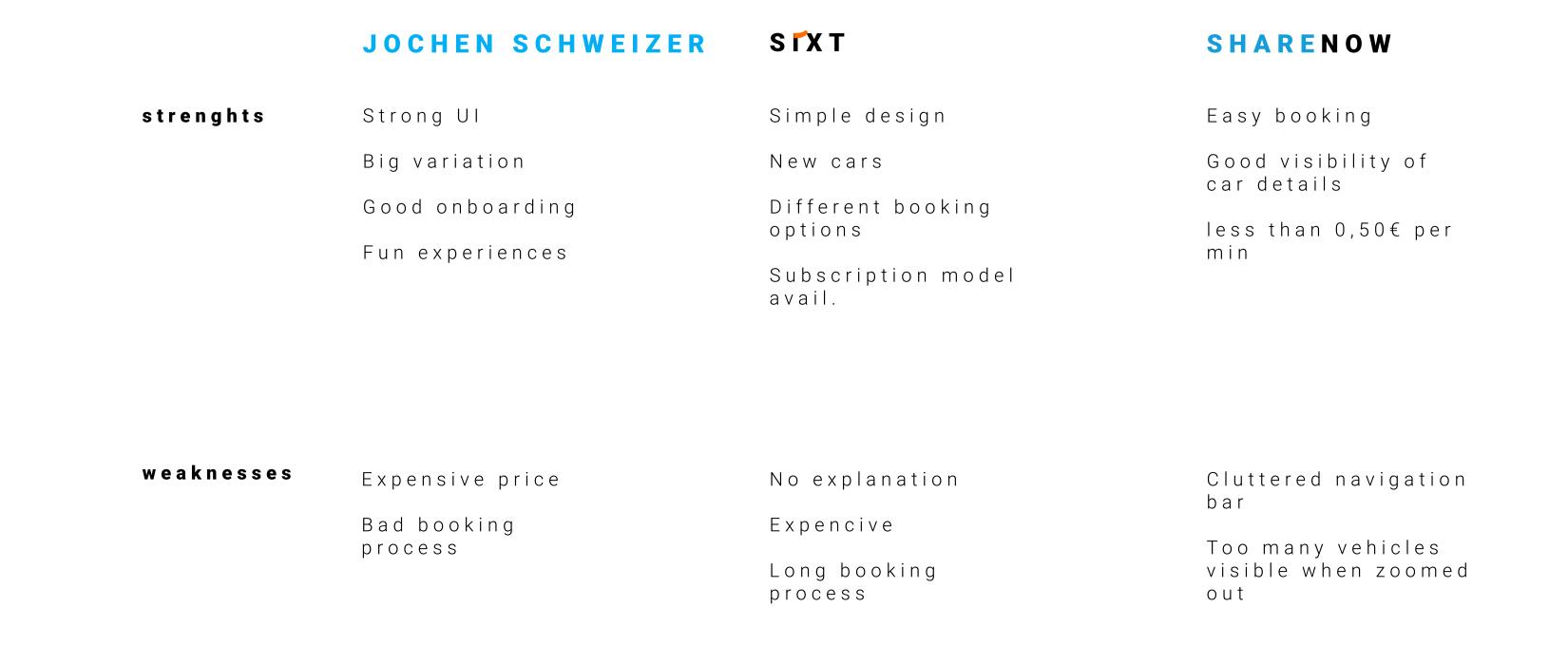
To adress our target user group, we first had to "define" our target user group. To always have in mind who



Our goal with the competitor analysis was to get a picture of the current market situation. With listing the

COMPETITORS

pros and cons of the other apps, we wanted to learn from their issues and create an overall superior product. Without considering other countries besides germany, we practically came up with the same idea as "Uber" just with autonomous driving cars. As an unique selling point is essential for the success of any app, we decided to drop this idea and came up with a new one. This completely changed our view on the topic mobility and public transportation. So we repeated the whole process including the competitor analysis with a completely new mindset.



Competitor Analysis

By evaluating the different problems again and thinking about how we could fix them properly and combining this with our personas we came up with this new solution:

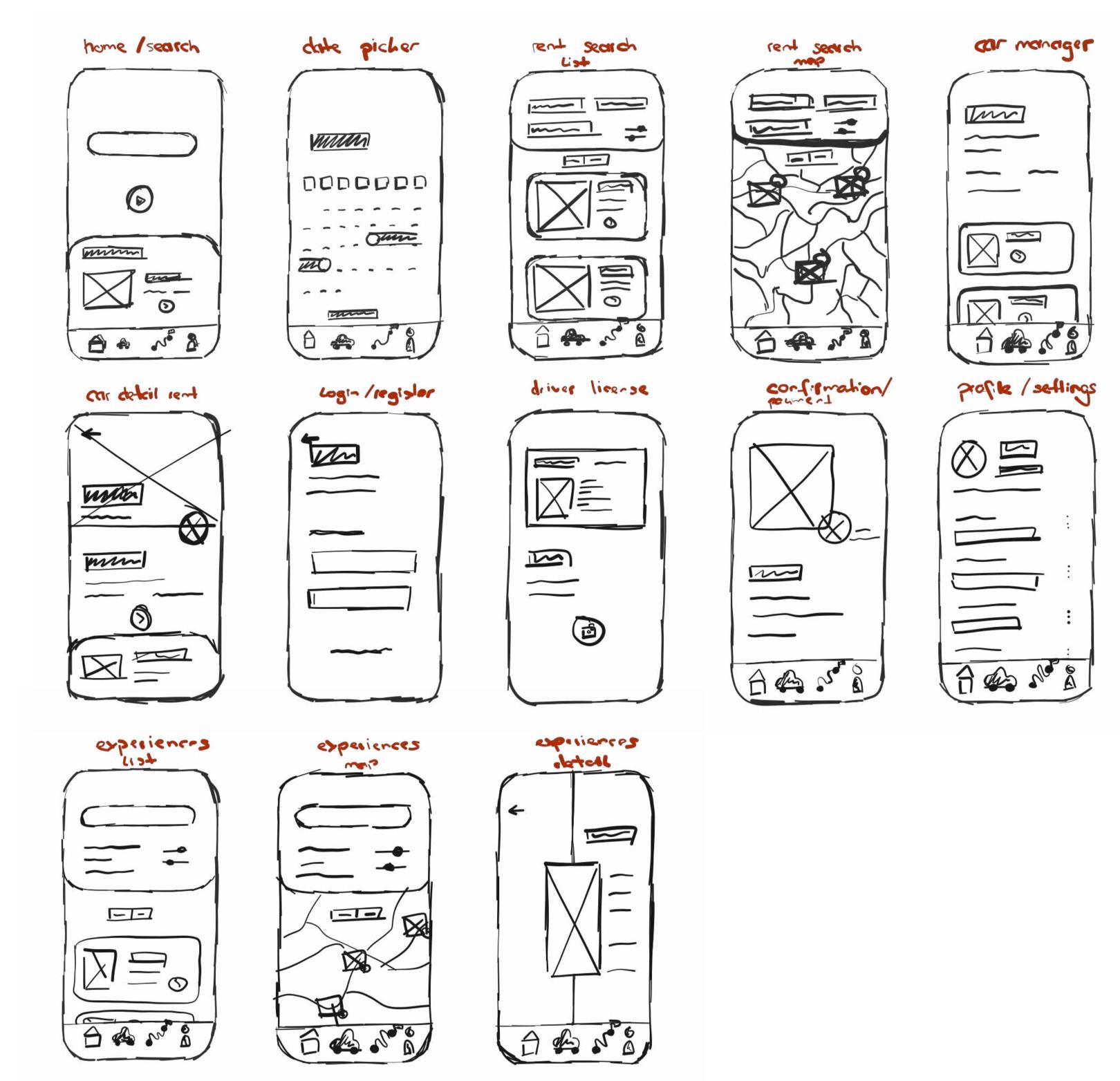
> A rentalservice where you can rent cars from other people using the App. You can use it at home for transportation purposes or in the holidays if you want to **be** flexible

> Based on AI recommendations you get location suitable cars and the best pricing option.

You can also book special experiences with your desired cars to enjoy it even more and make it unforgetable.

SCRIBBLES

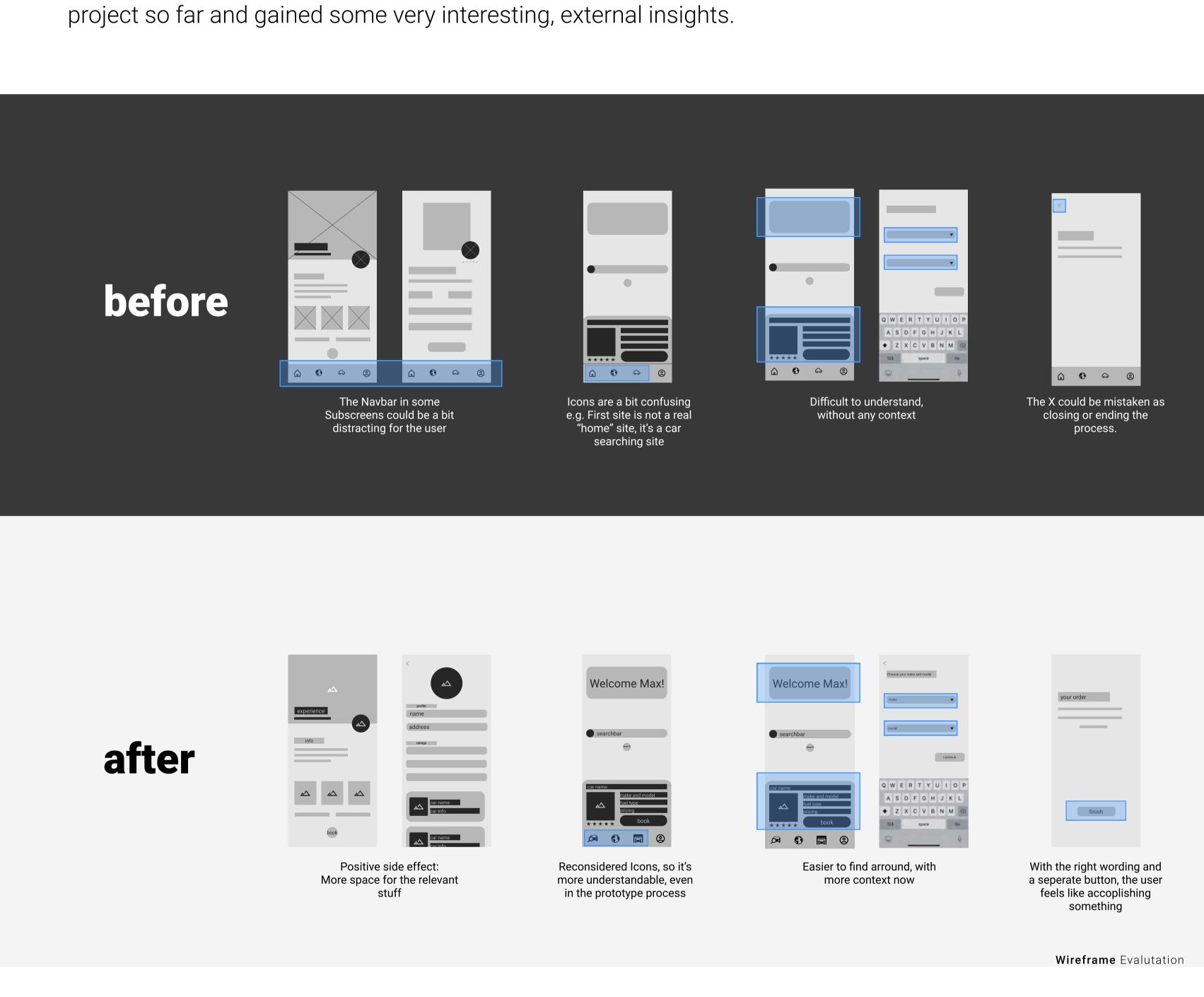
After creating a content table with all the neccessary Information, we thought about the information architecture. By evaluating the pros and cons that come with a tab bar or the navigation via a hamburger menu, we discovered that our app could be easily sepererated into 4 main areas. With that knowledge the decision was easy and we chose the tab navigation, because we wanted a clear and fast navigation process for the user and an indicator for the current location. With those things in mind we decided the basic structure of our app, aswell as the rough layout.



Scribbles Main Screens

Wireframes

With the basic structure and design in mind we started with the Lo-Fi Wireframes. In our first approach we only used basic shapes - even for the later on headlines or textboxes - to get a better understanding of the space and alignment. With this very Lo-Fi wireframes we built our first scenarios, to work on the user flow. To get a second thought on our progress, we met up with another team and collected their toughts on our



in the project, to work more efficient, because we didn't had to always think about, what exactly the rectangle meant. We also rethought our tab bar icons and the tab bar itself. In some cases the tab bar was not neccesary, or it was even distracting the user from the real content, so we removed it in some screens. In

First Evaluation

times of the Icons itself, we decided to change the "home" icon, to a more suiting one and also made the function of the garage more understandable, through replacing the car icon, with an icon of a garage. The last change of this evaluation was to reconsider the last step, the user had to make, after successfully booking a car. Instead of closing it with a simple "closing X" what could be mislead with abortion of the process, he now can press a button, with the right wording, so he feels that he accomplished something. **User Flow Wireframe**

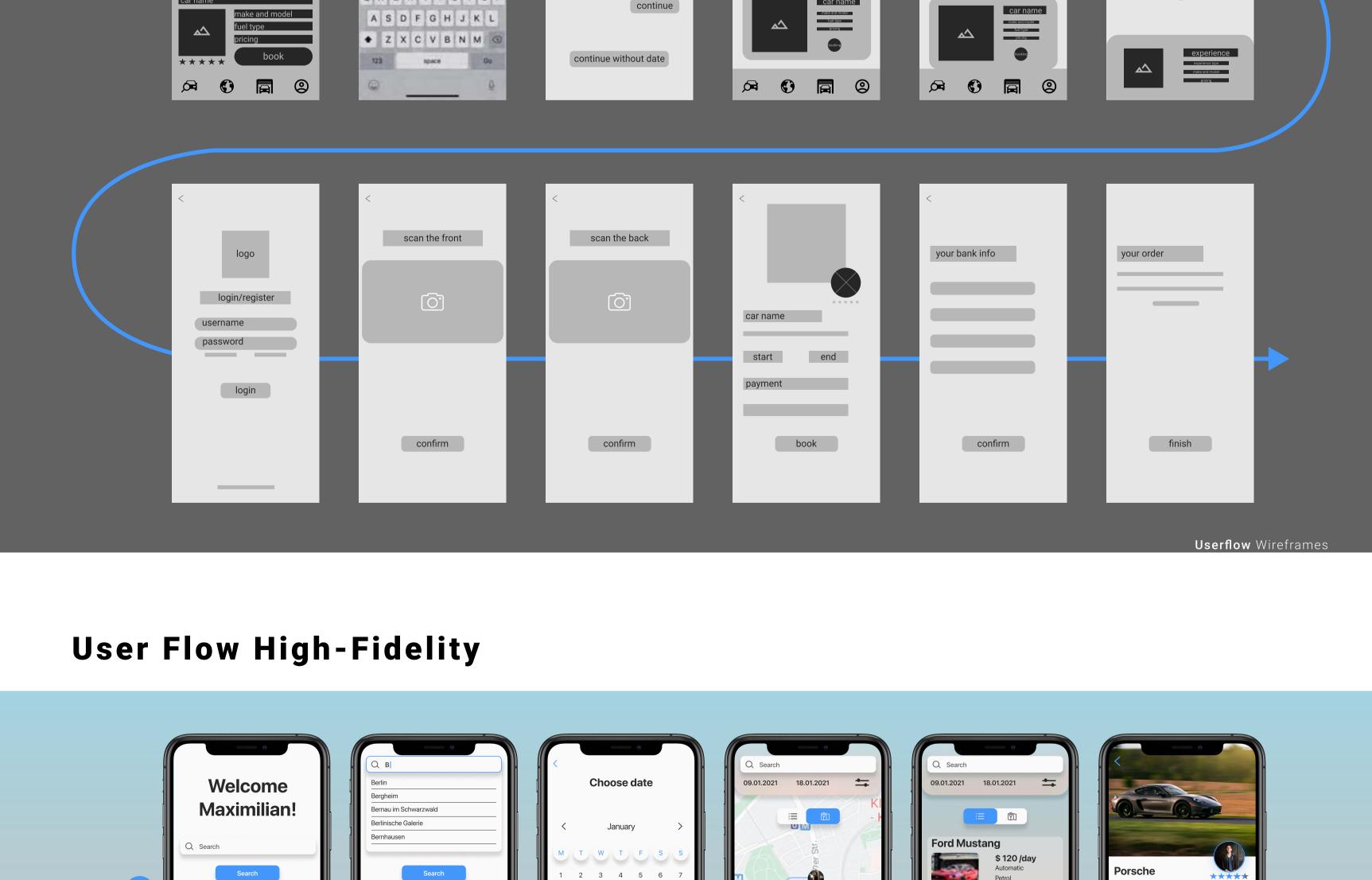
As you can see in the graphic above, we decided to make the wireframe more understandable, by adding

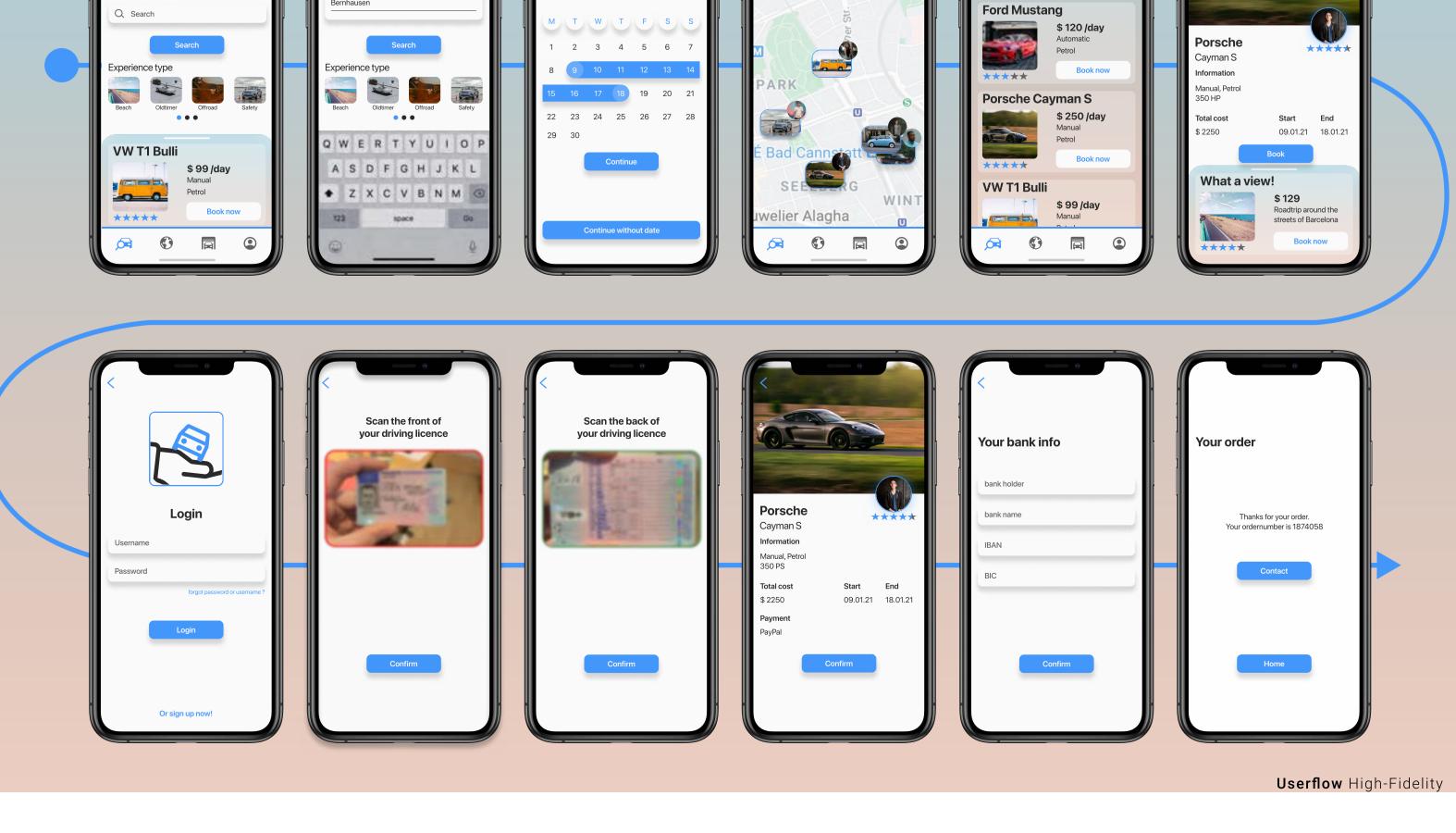
more context by replacing meaningless rectangles, with meaningful headlines. This did not only help other

people to understand our prototype and its visual hierarchy in this early stage, it also helped us a lot later on

QWERTYUIOP

Welcome Max!





Both User Flows, describe the process of looking for a car and finally booking it. In direct comparison you can see, that we sticked to our previous Wireframe. The whole logic of the order process didn't change at all, but the design, did clearly. You already can see, that we didn't want the user to login/register at the very beginning, but rather later on in the booking process, when it is actually needed. With this decision we wanted to comfort the user using our app and not discourage him, right away.

Design System

After applying all the important changes to our early Lo-Fi Wireframes, it was time to build a design system, before we could start with the High-fidelity Wireframe. The design system was very important, to build a consistent and easy adjustable Prototype. Of course a design system takes some time and effort to create but in retrospective, it was more than worth its developing time. Through the usage of it, we were able to build the Hi-Fi Wireframe in a modular way and every later on adjustment was just a few clicks aways and the whole design globaly changed. This really changed the way we were working, not only in this project, but in total.



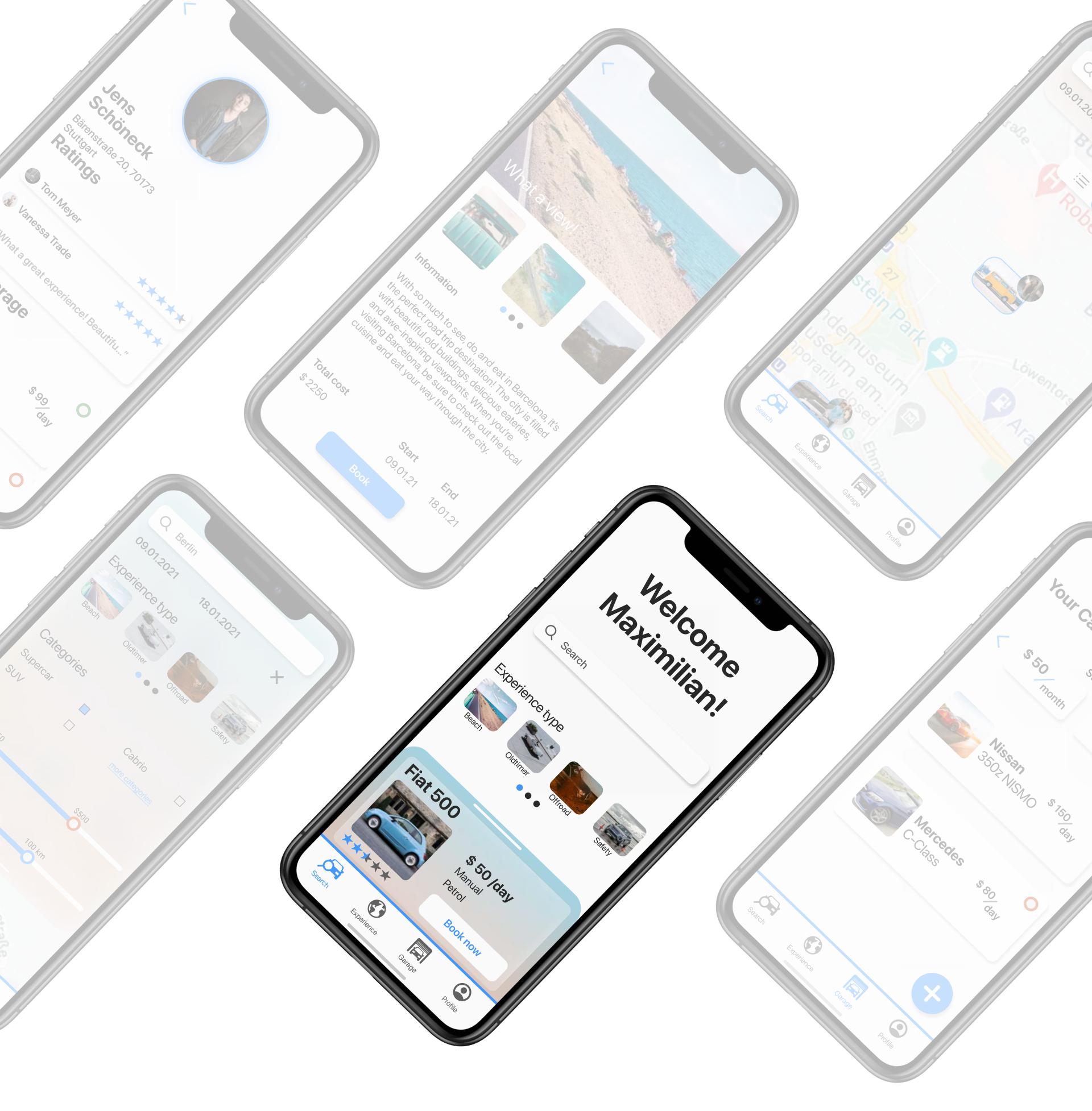
always will be a missing headline, image or just another variant of a button. Occasionally we needed to adjust the design system, aswell as some individual screens. Our design system made it possible to focus

High-Fidelity

mainly on the layout because all design elements were already done. With our pre-defined layout grid, we made clear, that every screen has the same margin and gutters between the elements. With the consistent usage of our primary and secondary color, we wanted to establish a clean and harmonious look.

With the final version of the design system, it now was time, to put it all together. In this phase of the project

we were facing a few problems. The idea of a modular system in theory works perfect, but in reality, there



Final Prototype

Building the prototype, was probably the most time consuming part, of the whole project. We already had

round about 40 to 50 screens after the high-fidelity phase. Thanks to prototyping, we even had to add a lot

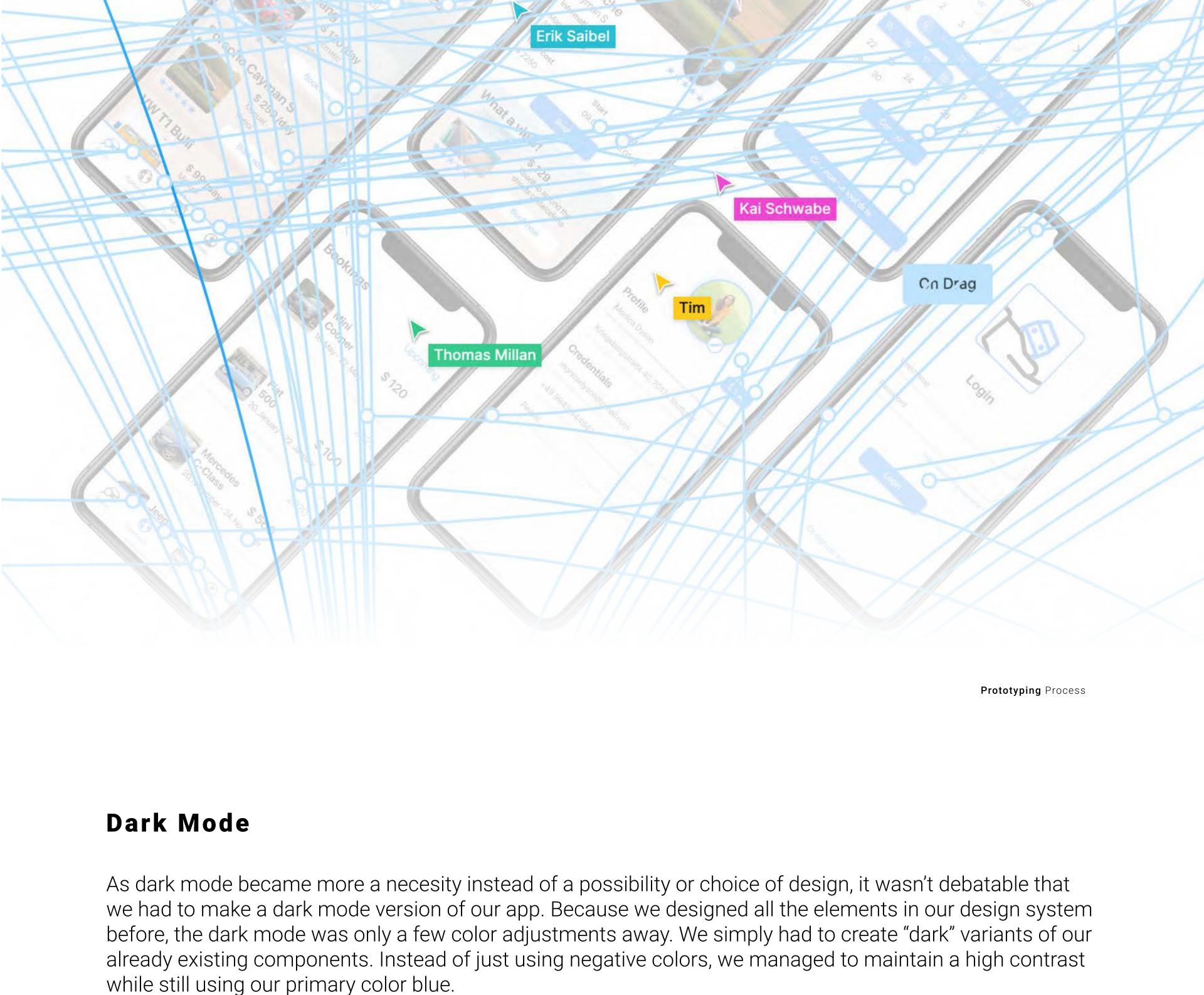
more of them, to realize all the animations. We spent a lot of time choosing fitting animations and intuitive

automatically moves in, from the bottom. All high-fidelity screens are fully connected, even the exemplary

navigation patterns. E.g. by tapping the search bar it extends by the top 5 locations and the keyboard

dark mode can be accessed, via the switch on the home screen. The switch is only for representetive

purpose, in a real app environment, the dark mode would adapt by the user settings.



Start

\$129

streets of Barcelona

Book now

Dark mode prototype

09.01.21

18.01.21

Porsche

Cayman S

Manual, Petrol

What a view!

\$ 2250

Experience type

VW T1 Bulli

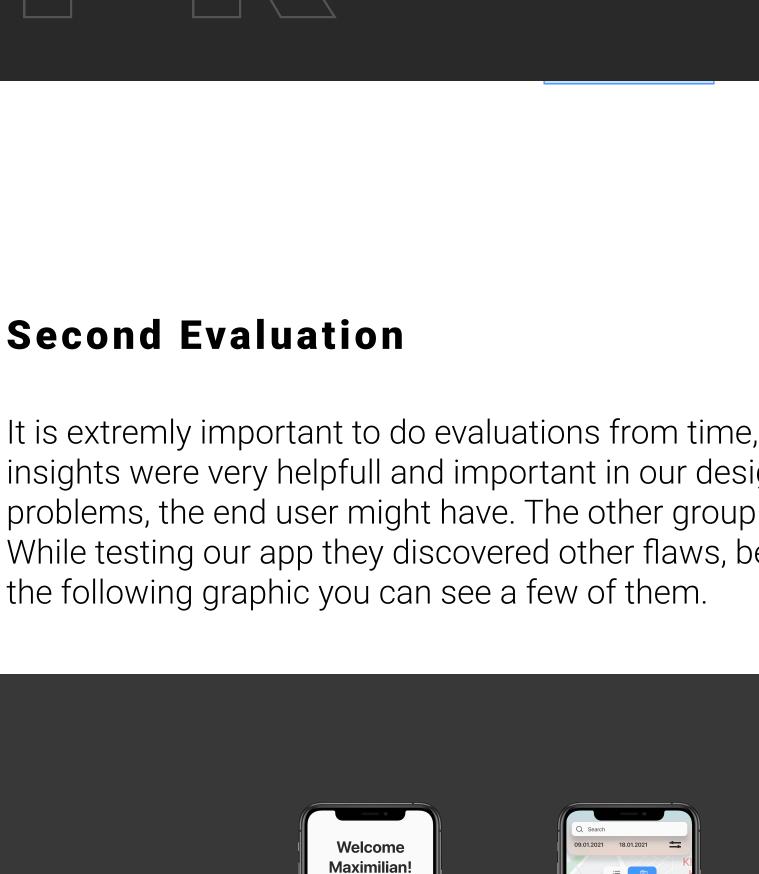
Q Search

Welcome

Maximilian!

\$ 99 /day





Our Icons were not really

self-explanatory and

needed some text

Now our Navigation is clear

for everybody

Q Search

09.01.2021

Categories

Price

Range

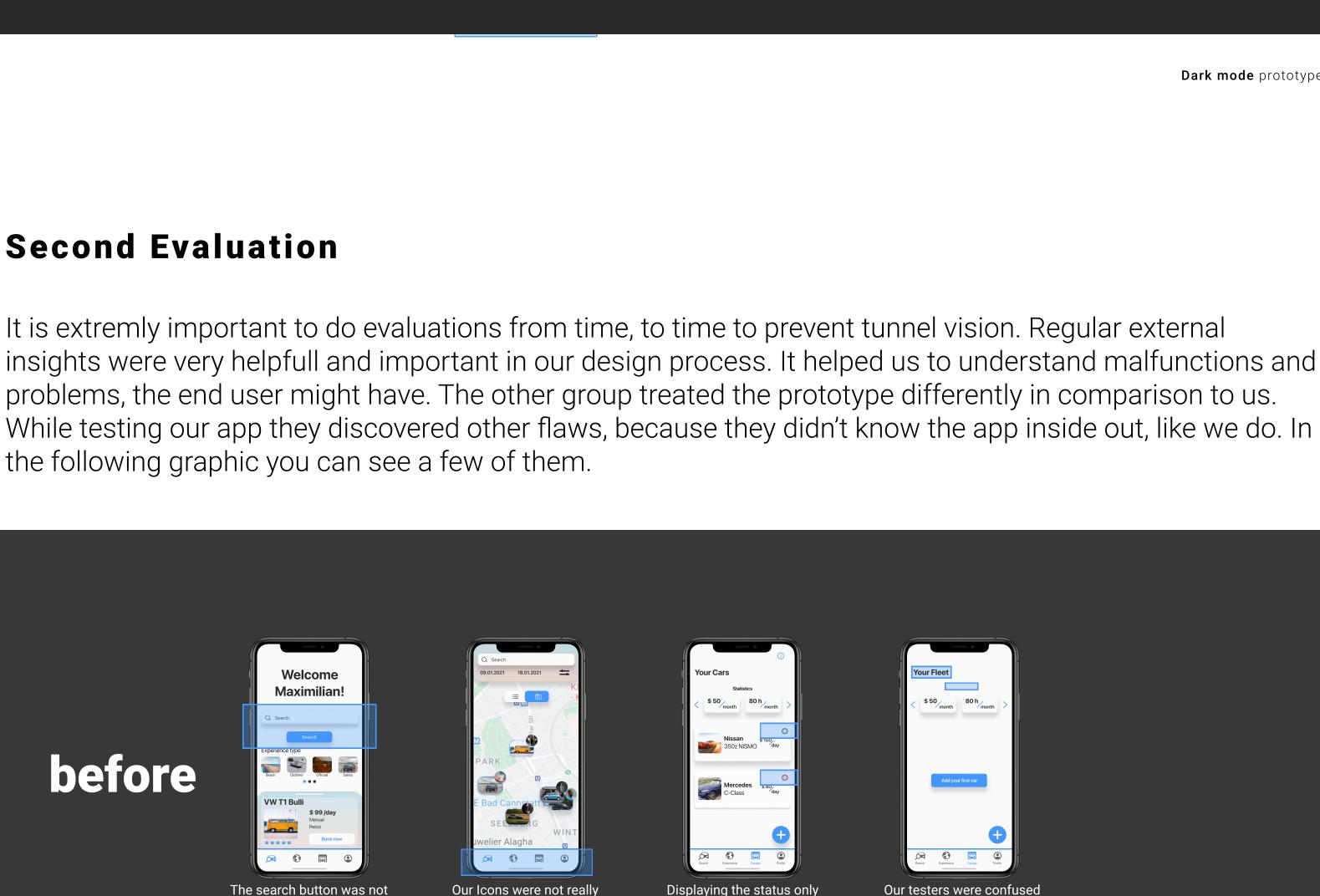
welier Alagha

Experience type

18.01.2021

Cabrio

Profile



with color is a problem for

red-green color blind

people (dyschromatopsia)

Easier to find arround, with

more context now

and didn't really know, what

this screeen was for

The information button and

the Statistics Headline

provides a quick explanation

Your Fleet

\$ 50 month

350z NISMO

80 h month

It appears in form of a

popup

High Fidelity Evalutation

after

before

The search button was not

really necessary, because

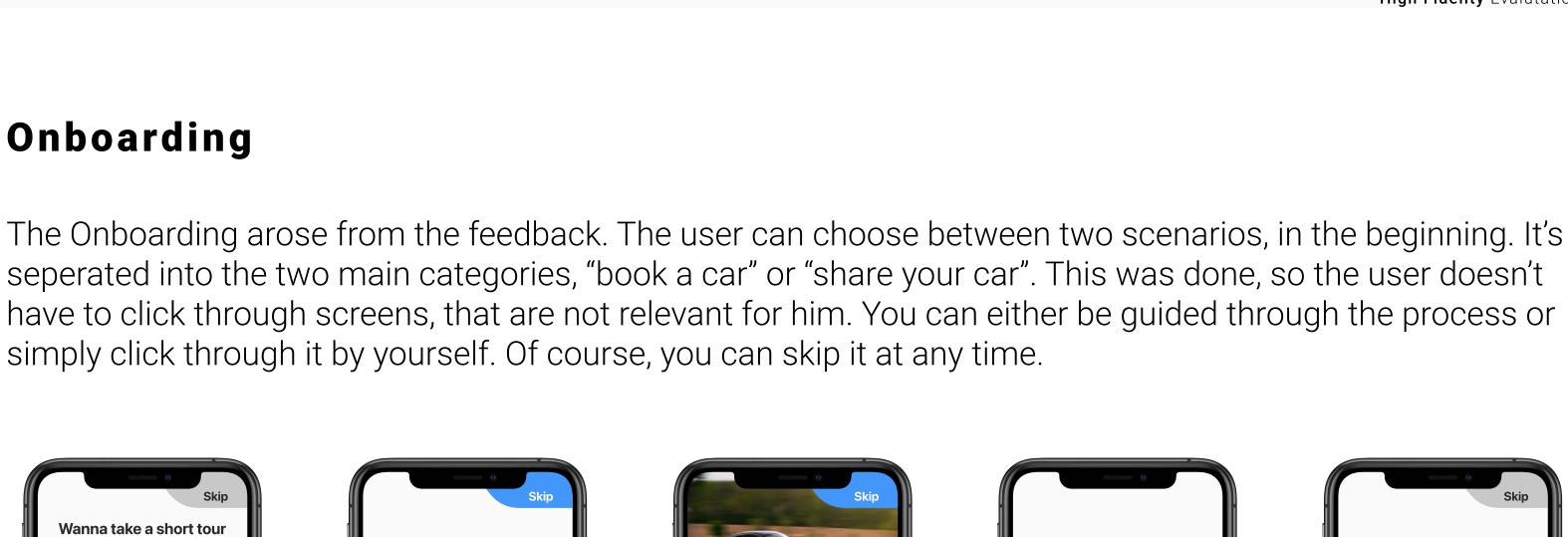
it is alredy on the keyboard

Welcome Maximilian!

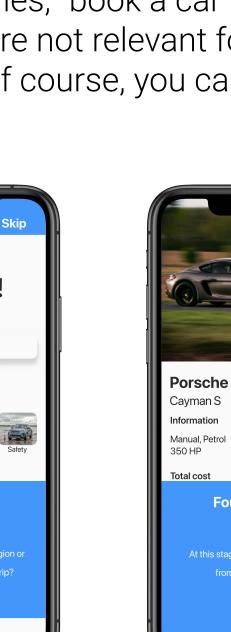
Positive side effect:

More space for the relevant

stuff and less distraction

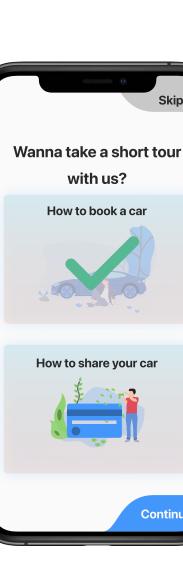












Reflection

with us?

How to book a car

Considering this was our very first big design project, we put in much effort and time to achieve this result.

be able to work together on the project in realtime, with almost no delay. We learned a lot of new things

It was exciting to work in a new environment (Figma). Especially in times of COVID-19, it was very helpfull to

throughout the complete process, such as the importance of working as a team and splitting up the different

tasks. Another thing we learned was the benefit of using a design system. In conclusion, we are very happy with the outcome of our work, even though we had a few setbacks like rethinking our basic idea due to the unique selling point. In the next project we should consider to put more time into the process of building our information architecture, to prevent navigation or logic casualties later on.



A project by Tim Tews, Erik Saibel, Thomas Milan and Kai Schwabe