

IONIC MEETUP

September 2019

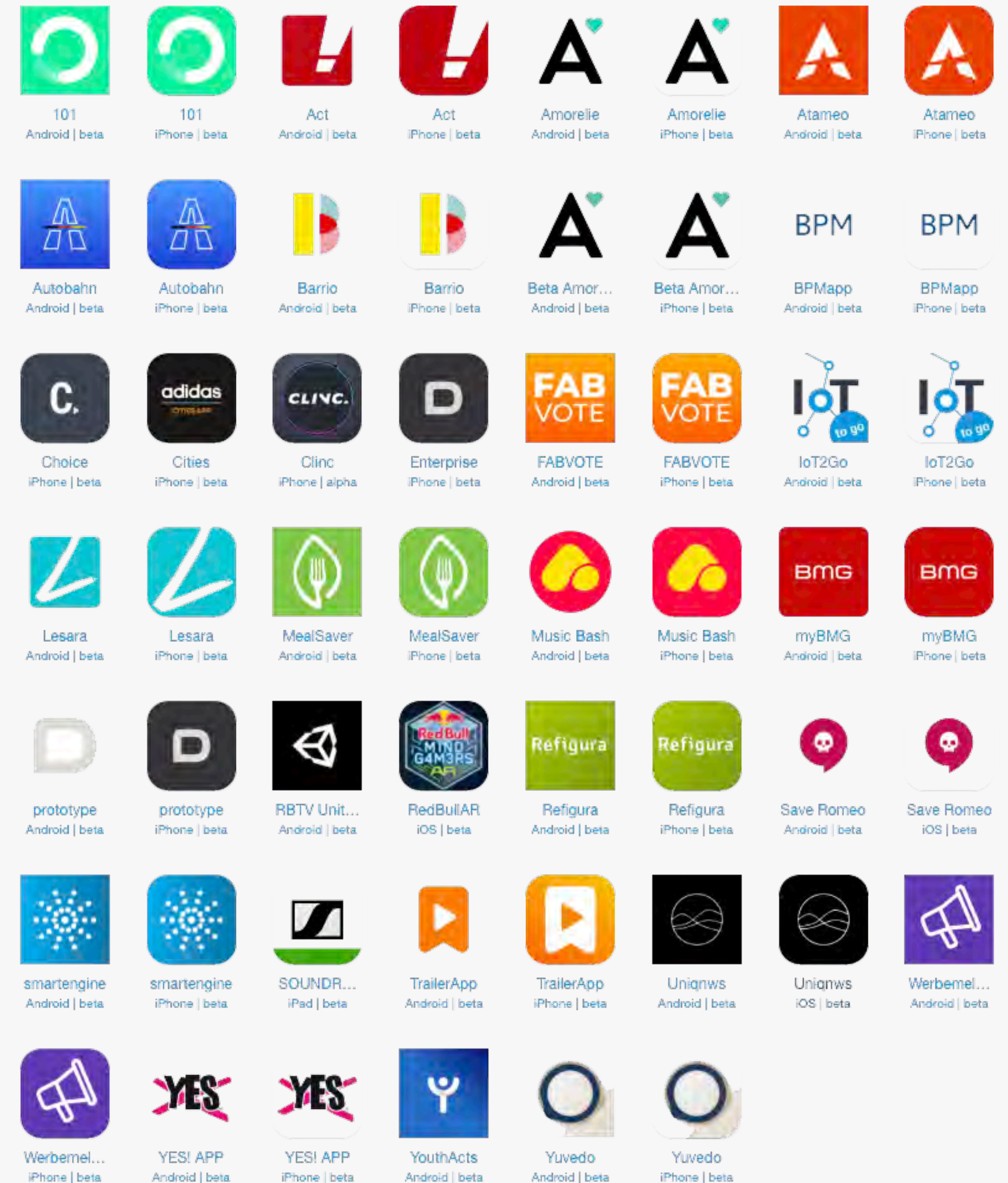


Ionic case study

Deployment as native apps and PWA from the same codebase

We have built 26 Ionic Apps over the years

As well as a handful of PWAs. With Yuvedo, we used Ionic for the first time to deploy the same code base as natives apps and to the web.



Yuvedo is Freeletics for Parkinson's patients

YUVEDO is by people with Parkinson's for people with Parkinson's. We want less tremor and less rigor, sleep better and speak louder. We want to accompany our children to the prom, play catch with our grandchildren and travel with our families. We want to keep our freedom or win back. That's why there is YUVEDO. Together we will reduce our symptoms and live a better life longer.

The project is sponsored by the AOK.



Features

Courses

- ✓ Courses with different exercises
- ✓ Video exercises
- ✓ Team view with gamification
- ✓ Regular meetings via Video chat

Chat and user profiles

- ✓ Real time chat with Websockets
- ✓ One-to-one chats
- ✓ Group chats
- ✓ Rich but anonymous user profiles

Statistics

- ✓ Track the Yuvedo score
- ✓ Track exercise ratings
- ✓ See past courses
- ✓ See correlations between exercises and the Yuvedo score

BACKGROUND

- **Why Ionic?**
One codebase, all the relevant platforms
(iOS, Android, Web)
- **Project-specific challenges:**
 - Patients with tremor need to be able to use the app
 - Helping a startup get off the ground means that requirements will definitely change, and fast



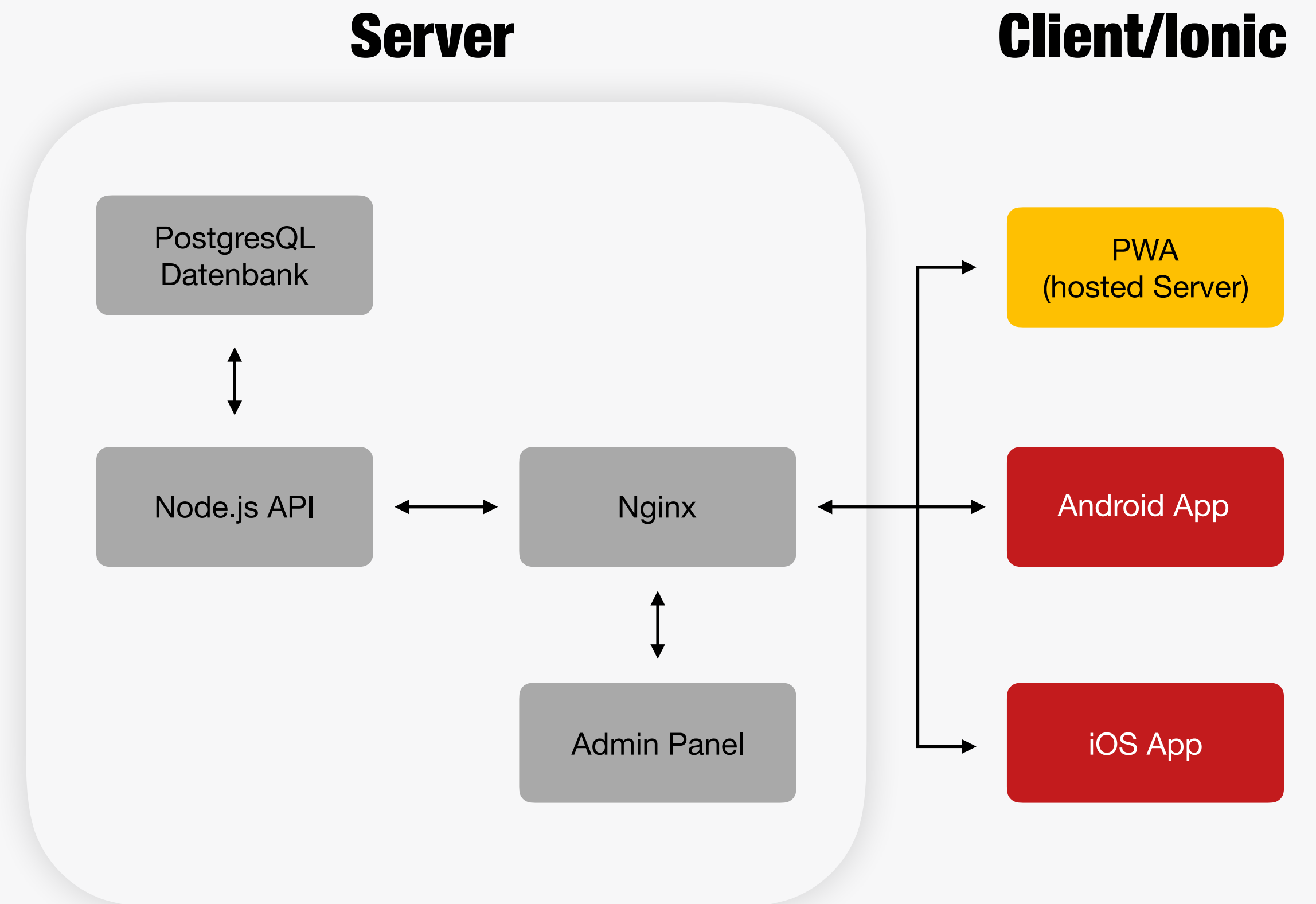
Inhalt

- Deployment
- Design-related issues
- Ionic components
- Payment
- Other issues
- Summary
- Questions



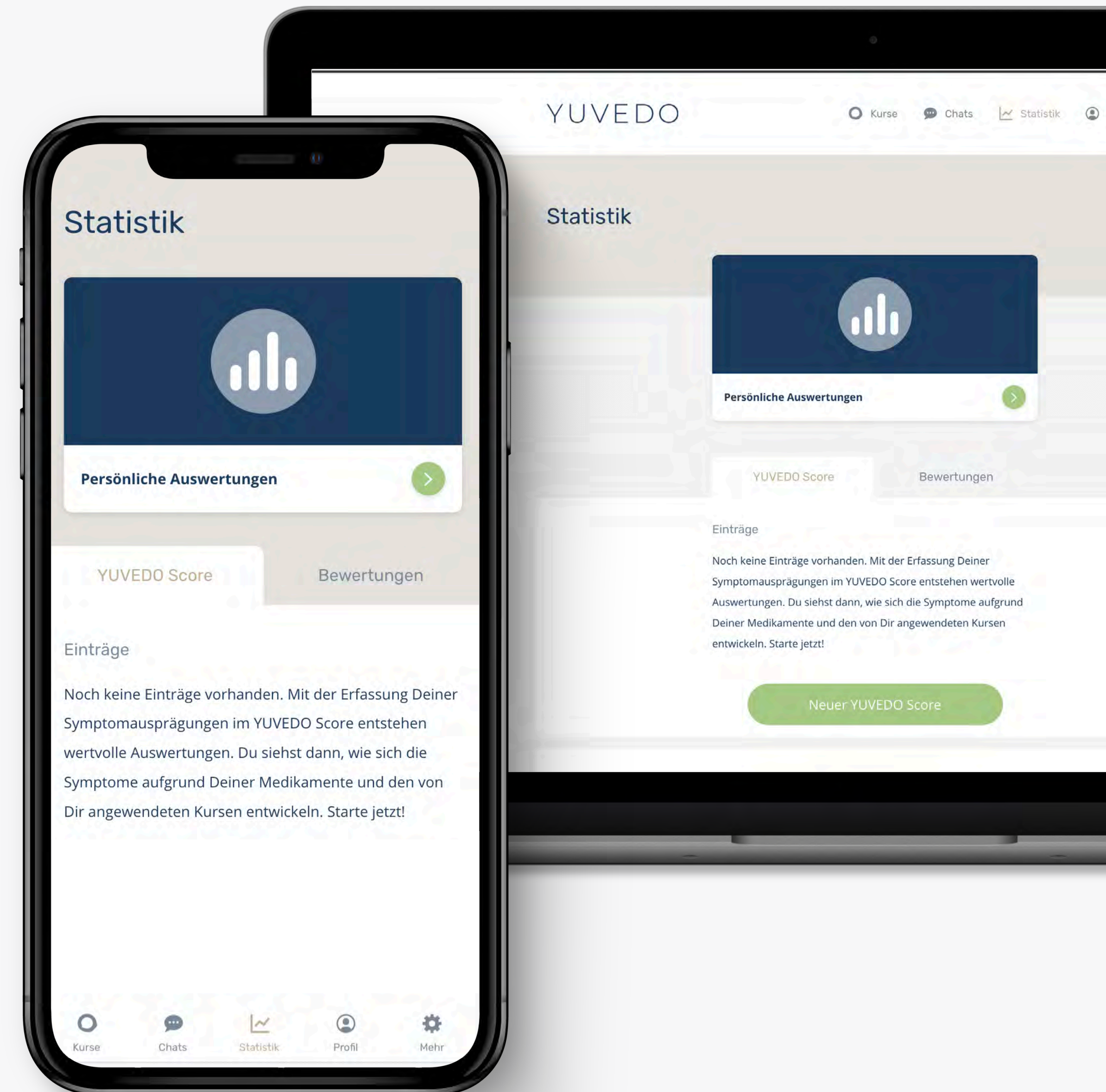
Deployment **was easy**, but requires optimization

- The stack: Ionic 3, Angular 5 (released before Ionic 4)
- Basic deployment easy as pie, just build and upload the www-folder somewhere
- Out of the box, loading times for first load are not optimal
~6 MB and 33 s until ready
- With caching, lazy loading and gzip compression, loading times of Ionic can be alright
~2 s and <1 MB until ready



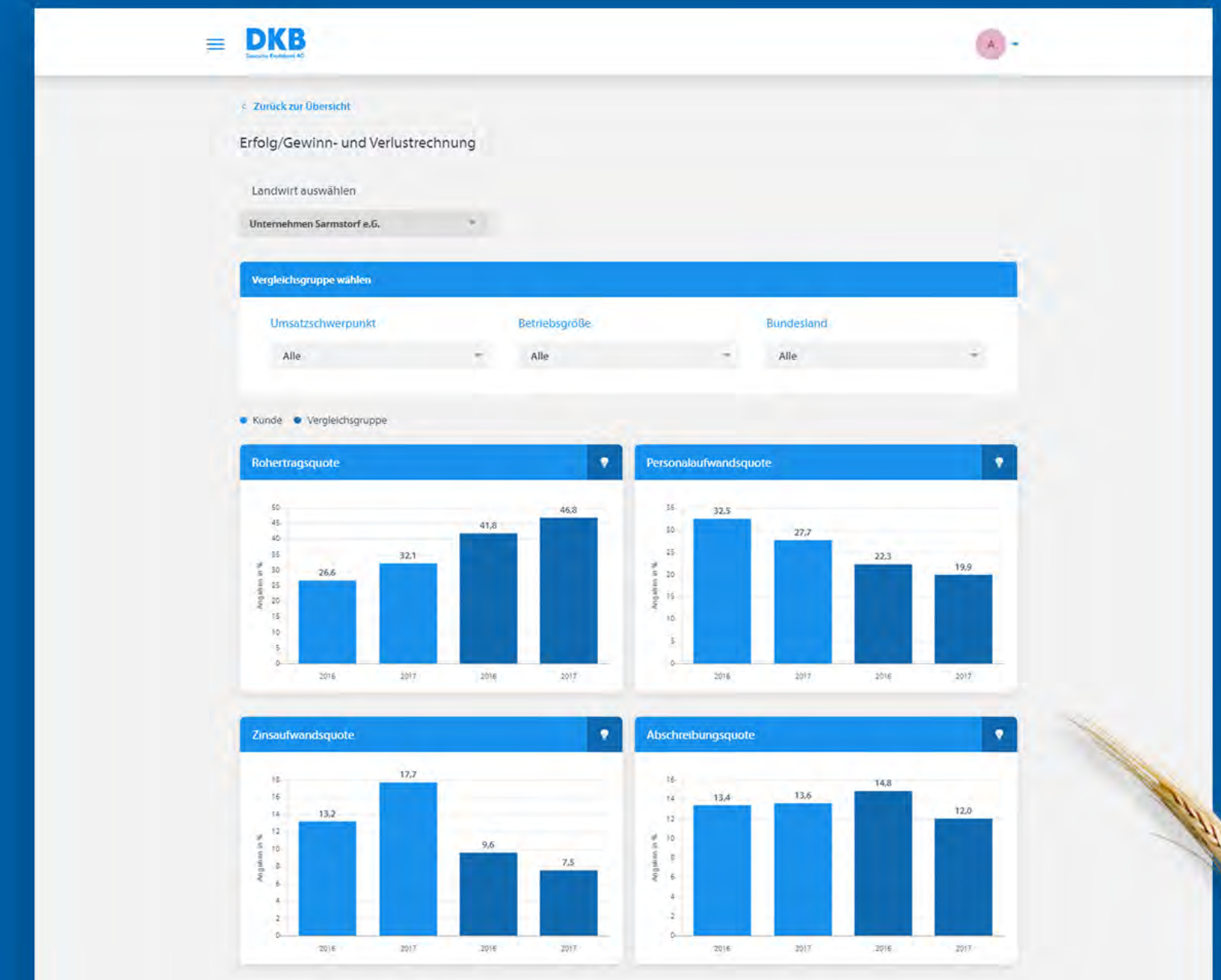
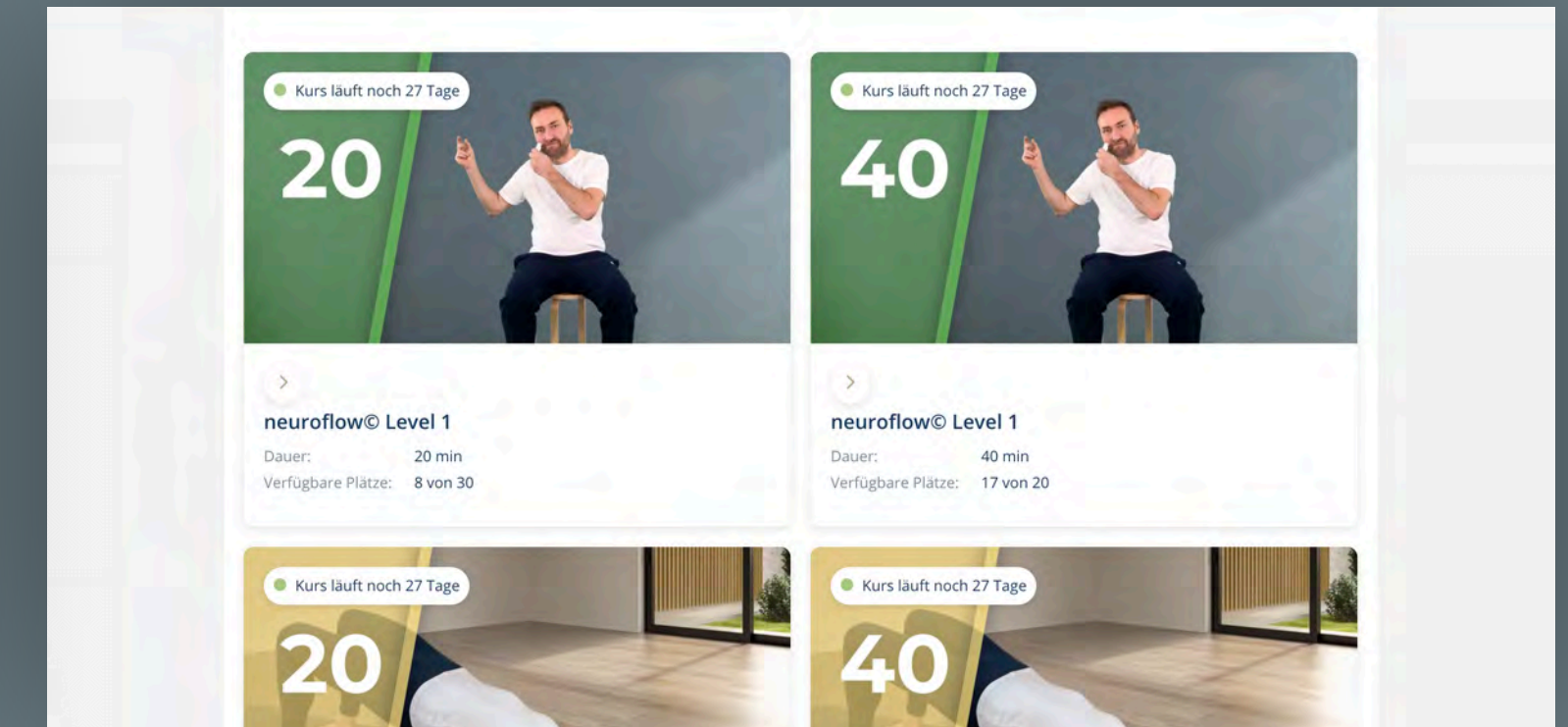
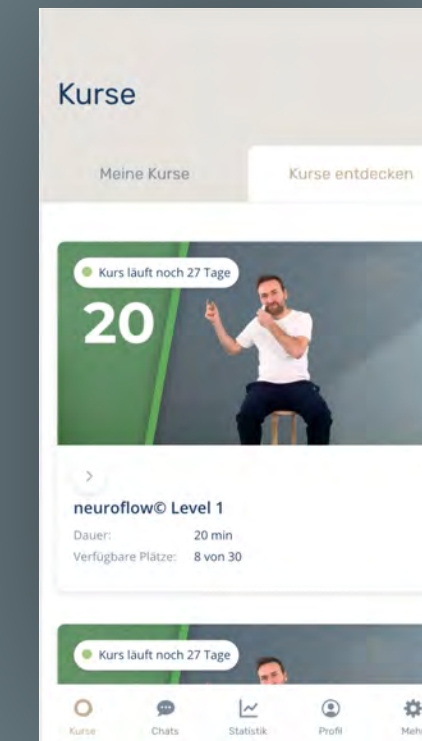
Overcoming **platform-specific** design-challenges

- Tab navigation works well in mobile apps but not on desktop
- Header design in apps implies ?
- Some navigation patterns differ, e.g. header back buttons



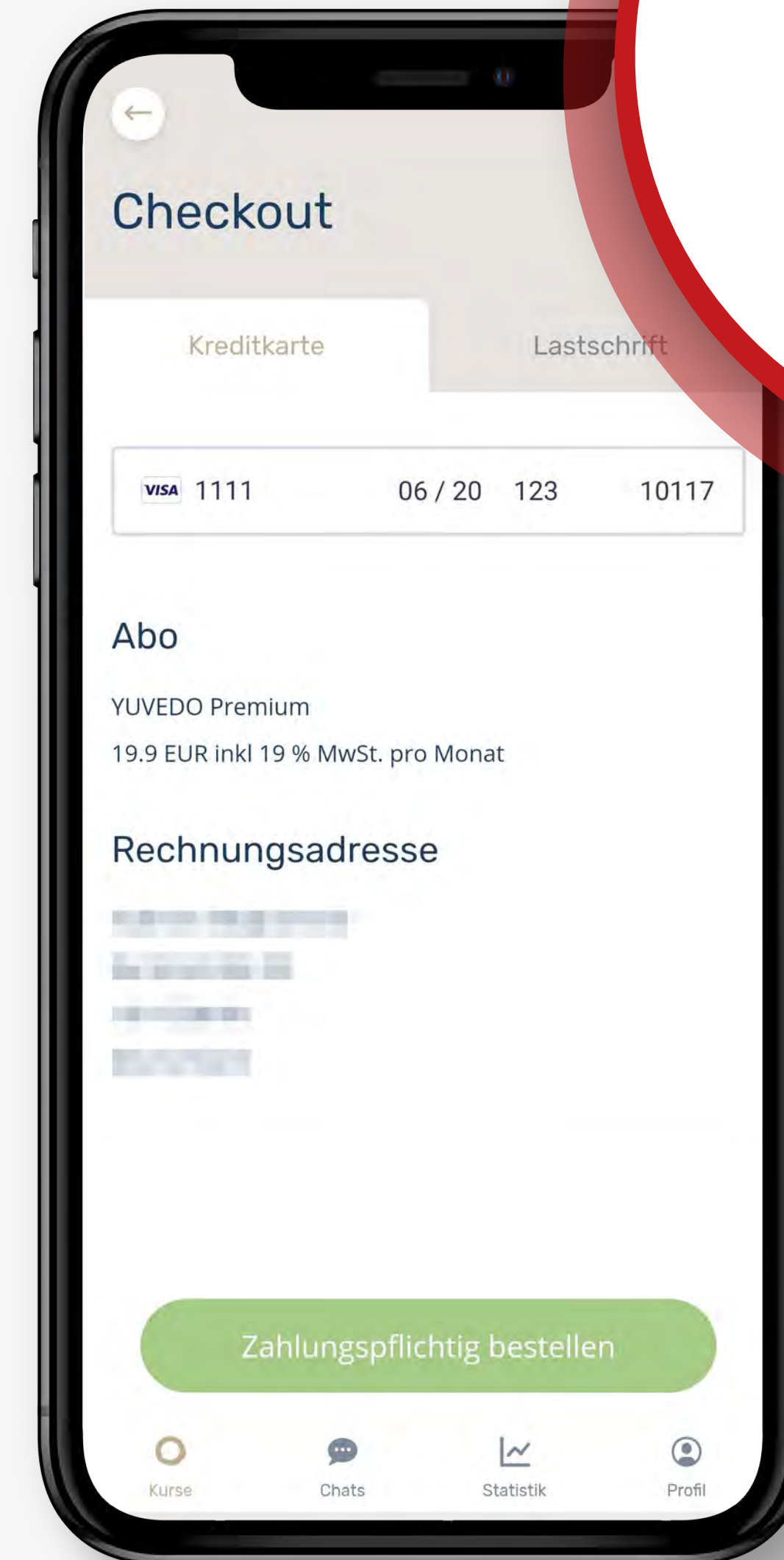
Most Ionic components worked just **great** on bigger screens

- ion-grid is awesome
- ion-slides is very adaptable
- alertController, ModalController and ToastController work very well
- ion-datetime felt weird, we replaced it on desktop with a number input (only year was required)
- ion-select feels quirky on desktop, users are not used to confirm single option selections



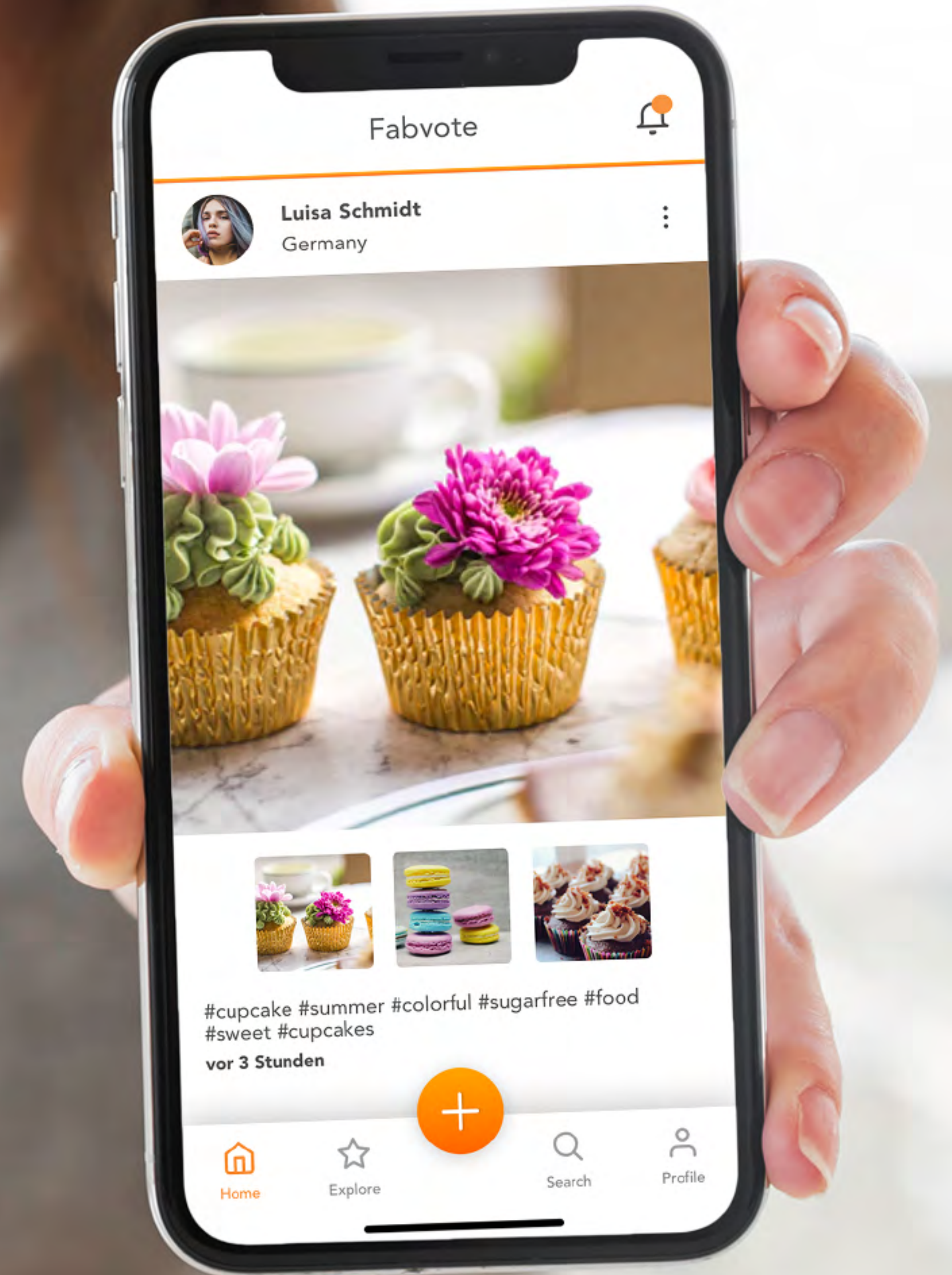
Payment is the **major difference** between the platforms

- We've used Stripe and it's lit 🔥
- We've tried the Netflix approach:
Registration and Payment only in the Web App
- That didn't work with Apple this time 😬
- Because Stripe can't be used on iOS, this part is the one with the most differences across platforms



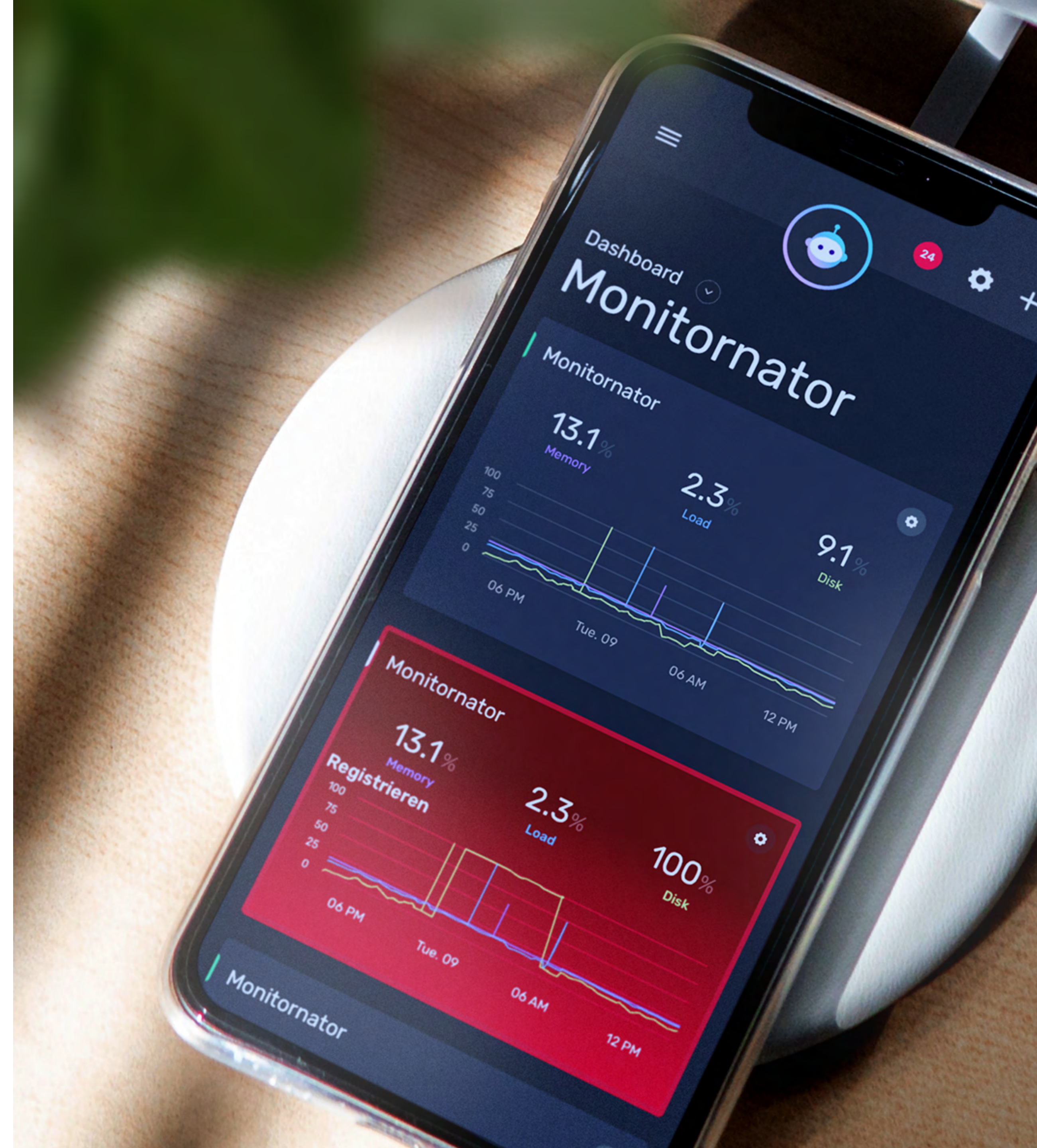
There's always **something**, but: more platforms, more issues

- Video playback across platforms was finicky (looking at you, Android) but in the end, it worked decent with MP4 streams from Vimeo
- We like to use the Appinfo plugin and had to mock it for the web
- Surprisingly, Edge isn't a problem at all



In summary: We would **do it again**, no doubt

- We could iterate the product quickly across three platforms
- Most cross-platform issues were minor and/or quickly overcome
- Continuous Deployment to the web is definitely less error prone than Cordova (Google Firebase, anyone?)
- Ionic has quite a big footprint out of the box, so some thought should be put into cost vs. benefits



QUESTIONS?

Don't hesitate to ask 🙌



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A handwritten signature in black ink, which appears to be 'Ruben Gäsler'. The signature is stylized and fluid, with a large loop at the beginning and a long, sweeping tail.