Let's build a small mobile application with Ionic and Firebase

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Agenda

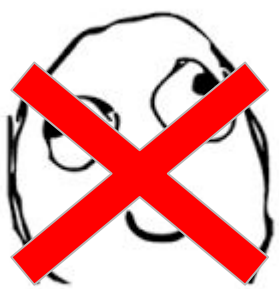
1. #truestory
2. Hybrid Mobile Apps
3. Platform as a Service (PaaS)
4. What are we going to build?
5. Tools
6. Demo

About me

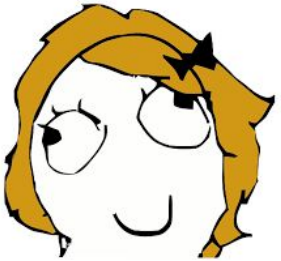
- Coffee drinker
- Craft beer enthusiast
- Software Engineer since 2002
- Born in Costa Rica! Living in SLC since 2013
- Sr Cloud Systems Engineer at

#truestory

me



my friend with a business idea



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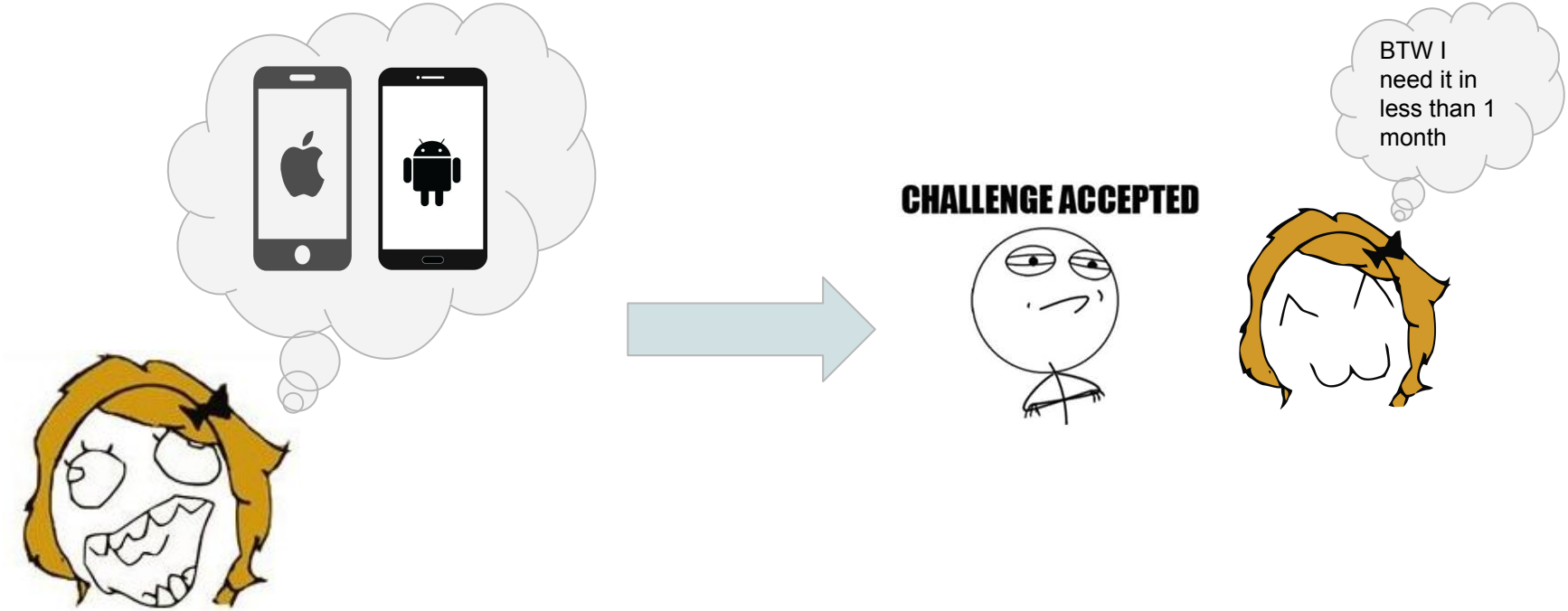

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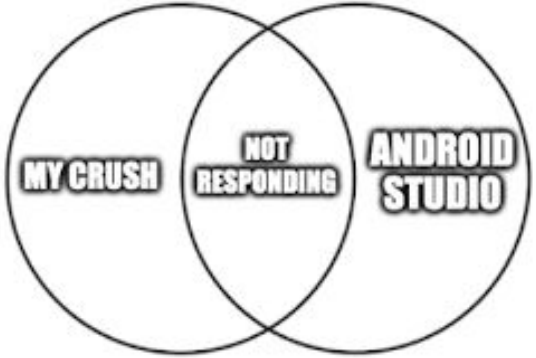
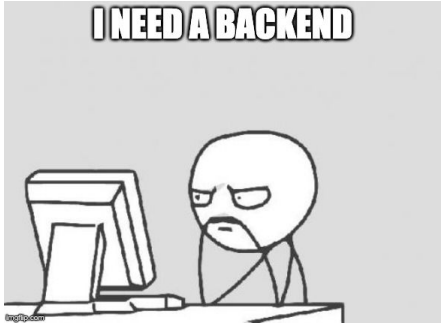
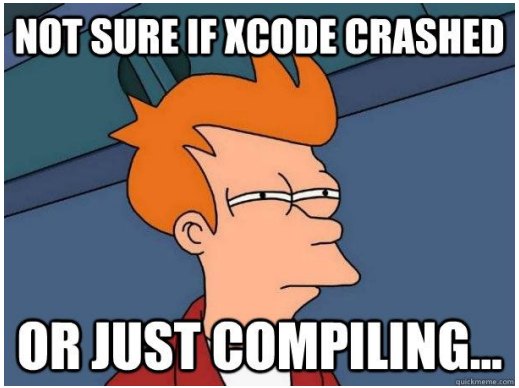
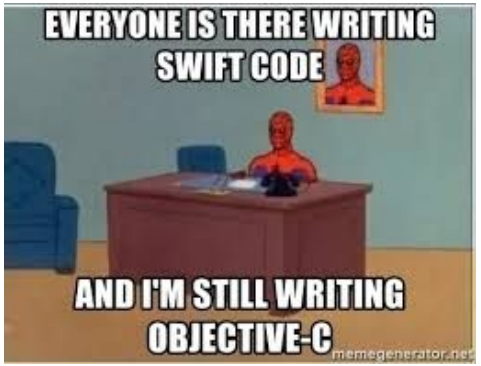




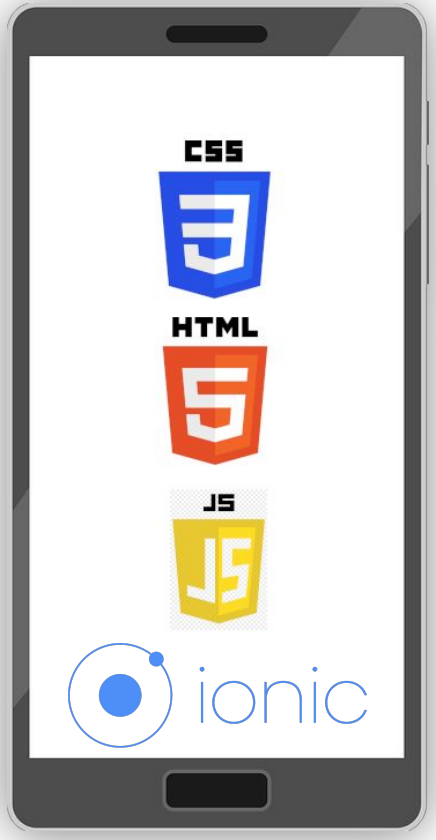


Two weeks after we spoke...



#truestory

Hybrid Applications

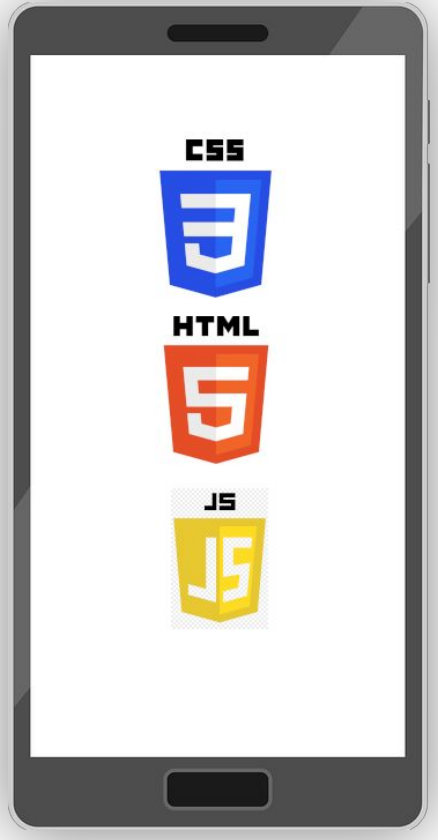


Firebase

PaaS

In less than 1 week I was able to learn the basics and deliver a working prototype with user authentication and a database.

Hybrid Mobile Apps



- Ionic
  - HTML, JS and CSS code run in an internal browser (WebView), which is wrapped into a native app.
  - Ionic uses Capacitor, which is a cross-platform runtime to build web apps that run natively on iOS, Android, Electron and the Web
  - Cordova (PhoneGap) can still be used
  - OpenSource
- Other HMA Frameworks: Xamarin, Flutter, ReactNative

References:

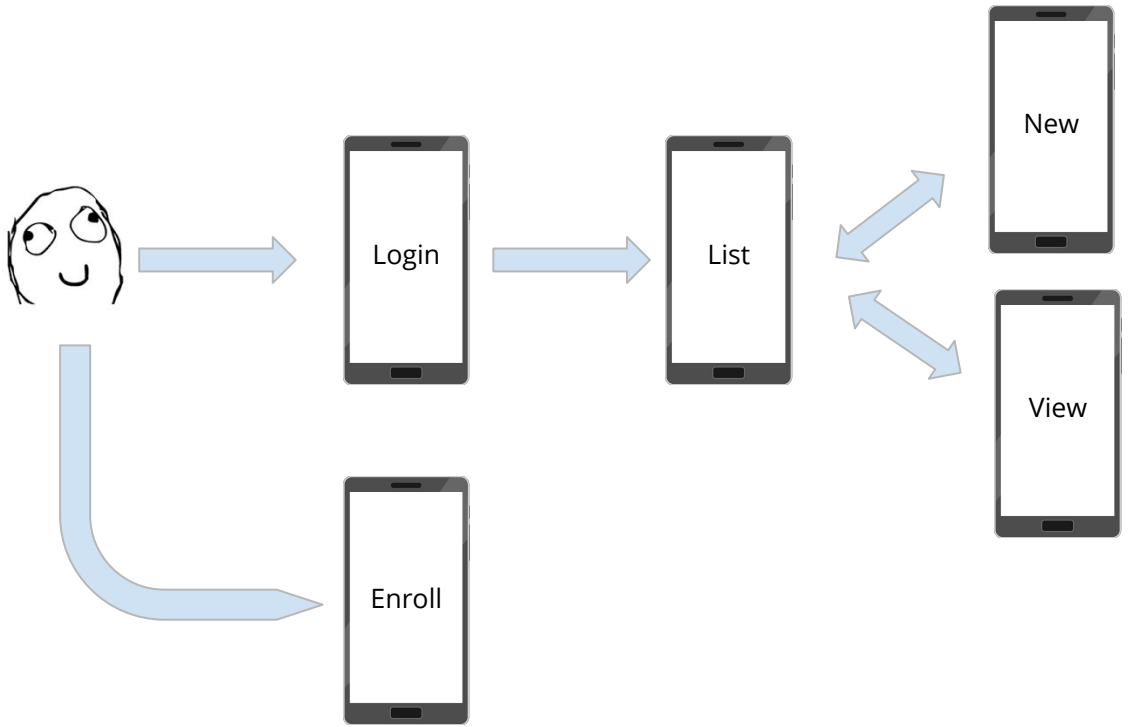
- https://ionicframework.com/resources/articles/what-is-hybrid-app-development
- https://capacitor.ionicframework.com/docs/

Platform as a Service (PaaS)

- Part of the Google Cloud offering
- Not exclusive for Hybrid Applications: offers SDKs for all major programming languages, plus REST APIs
- Multiple services / goodies for Mobile applications:
  - User Authentication
  - NoSQL Database (realtime or firestore)
  - Cloud Storage (files)
  - Cloud Functions (backend functions that react to HTTP or database events)
  - Cloud Messaging (push notifications)
- Free tier available!

https://firebase.google.com/pricing

What are we going to build?



Tools

Demo

https://github.com/aariasc/bmdd2019-ionic

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