



Engineering at the  
brink of scale

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Coding roadie

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AllPosters

# Skyscanner Flights iOS App

Find cheap flights

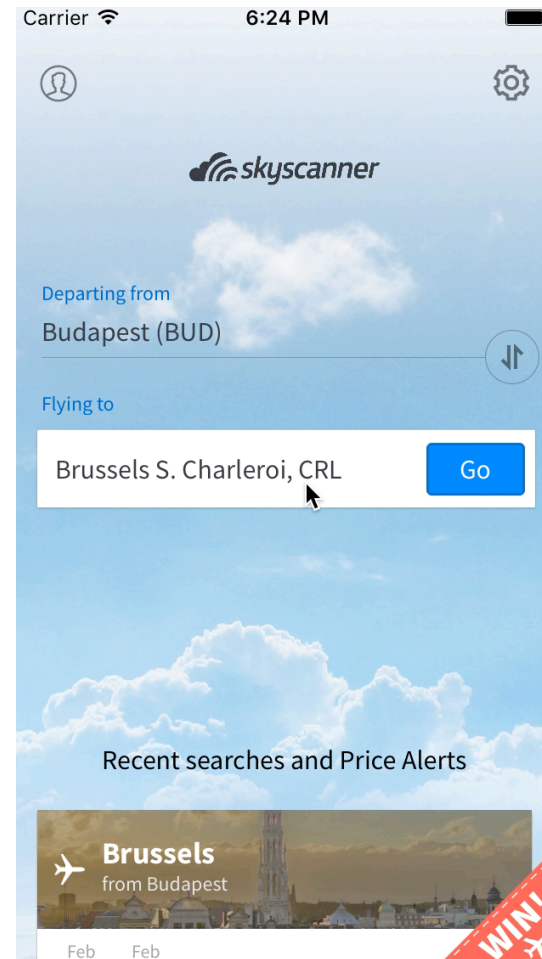
40+ million downloads

30+ languages

In 13 countries AppStore

Avg. 50+ million visitors across web and app

Complex problems live in travel



# What do users use our app for?


Finding the cheapest flight

- flying frequently (business man)
- chosen destination, looking for prices
- Problem to solve: find it from 1,200 global partners


Collecting ideas

- no idea where to fly or when
- need information to decide
- Problem to solve: Anytime/Everywhere (1.5bn+ quotes)

😊 6.7
Cheapest


**11:35 PM - 12:35 PM<sup>+1</sup>**  
 BUD-JFK, Aeroflot

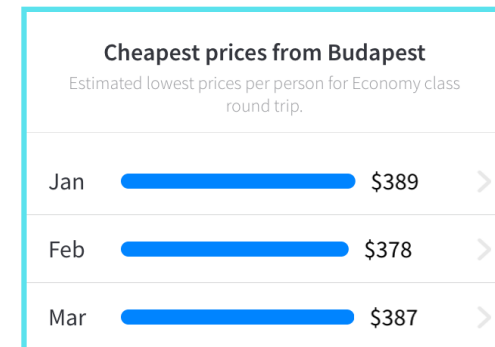
**1 stop**  
 19h 0m


**2:25 PM - 12:05 PM<sup>+1</sup>**  
 JFK-BUD, Aeroflot

**1 stop**  
 15h 40m

**\$508**  
via Travel2Be

Select



## Help each type of user

- First: Understand them!
- Product mindset: Start with the user, end in the (X)code
- “Data Driven Development”:
  - Analytics
  - User testing
  - Prototyping
  - Experimenting
  - Research

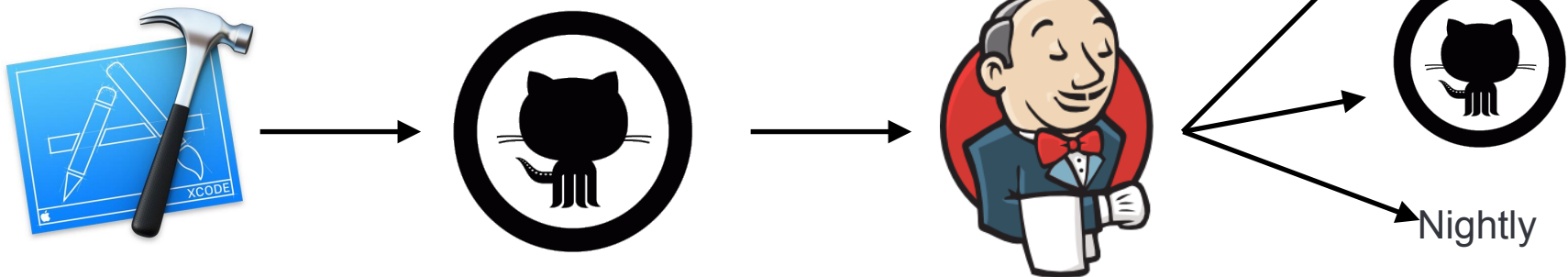


## We should backup this with a workflow

- Spotify squad [structure](#)
- Designers and Engineers working closely together
- Fast iteration for prototyping, focusing on MVP
- No in-house QA -> tester hat
- Every night crowd testing build
- Near every 2 week release -> Force iteration, fast feedback
- Once released: Measure, maintain, support

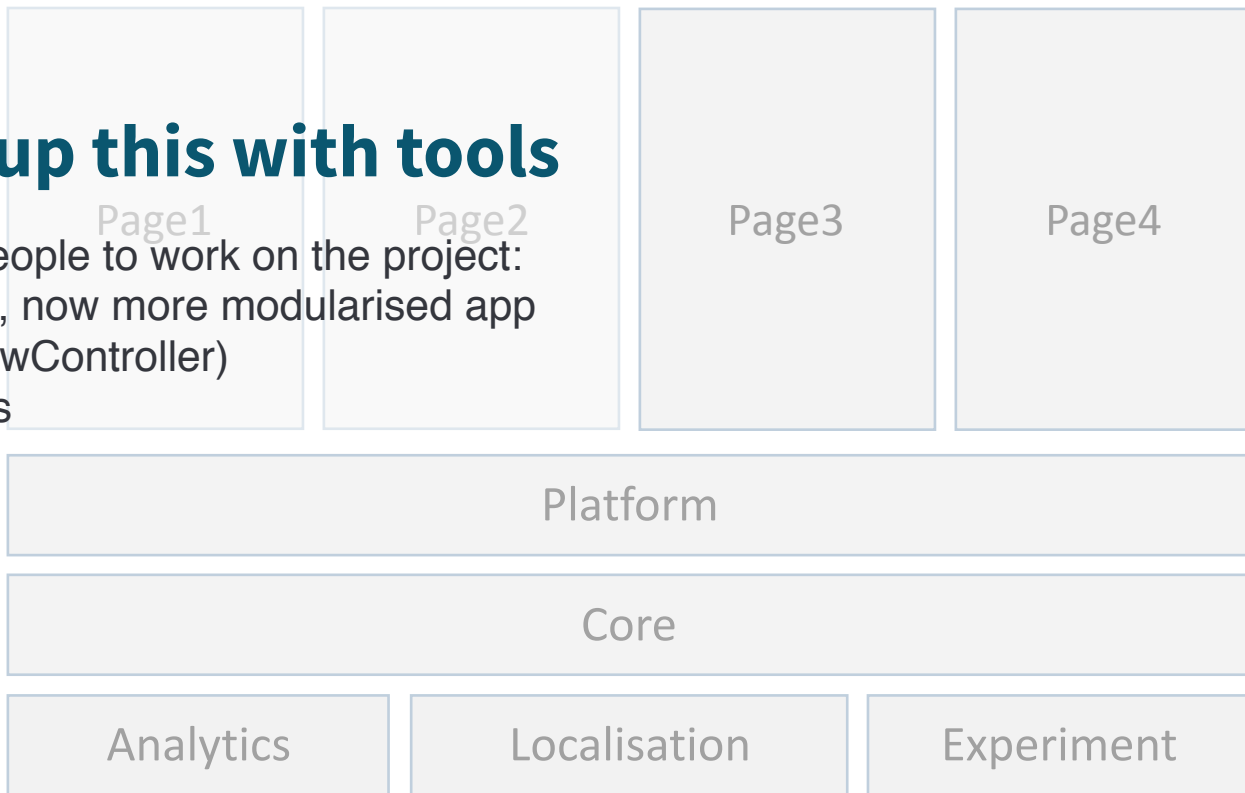
## We should backup this with tools

- Two week release:
  - Automated release trains
  - Red button



## We should backup this with tools

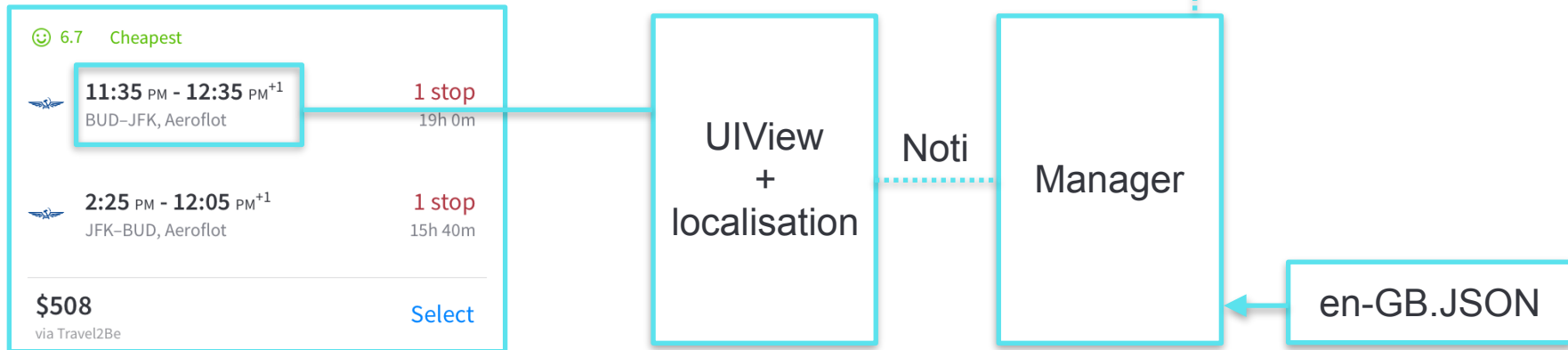
- Enable more and more people to work on the project:
  - Previously monolithic, now more modularised app
  - (see also MassiveViewController)
  - Identify dependencies
  - Minimise interface
  - Layer = repo





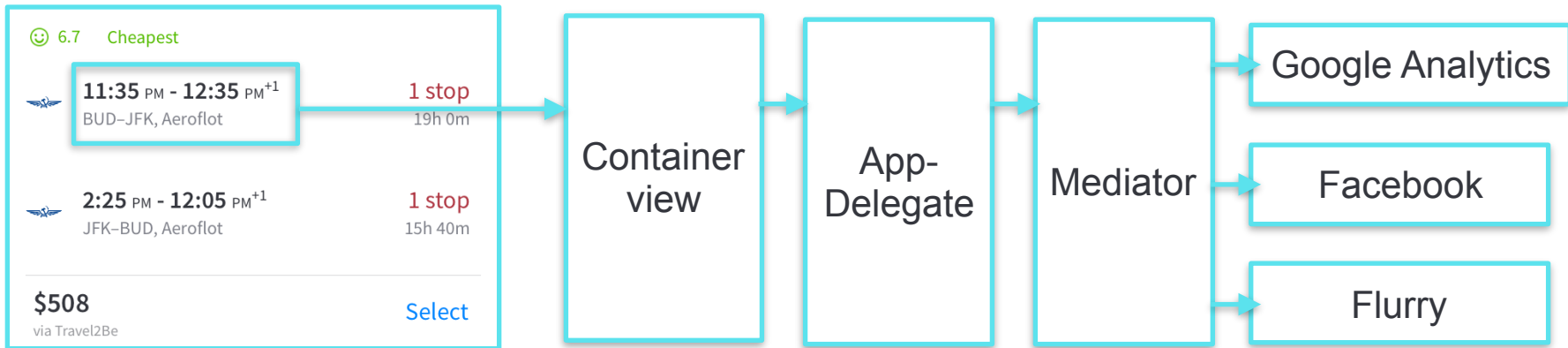
# We should backup this with tools

- To reach more users we need localisation for 30+ languages
- Custom localisation module (cross platform, faster adaption)



## We should backup this with tools

- To understand users, we need information
- Analytics module to aggregate more tools
  - Low cost to add another
  - Define context on each level



## To take away

1. There is a path for developers to become engineers. //By expecting Scale
2. The field of travel hides complex problems, that we try to solve. //Requiring Scale
3. Engineers modify approach to solve these problems in Skyscanner. //Adapt Scale

# Thank you & QA



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