
Feb 20, 2019 @ DeveloperWeek

React Native in a native world

Neil Kimmell

Feb 20, 2019 @ DeveloperWeek

React Native in a native world

Neil Kimmell

@neilkimmett

👋 hello

🇬🇧 from London

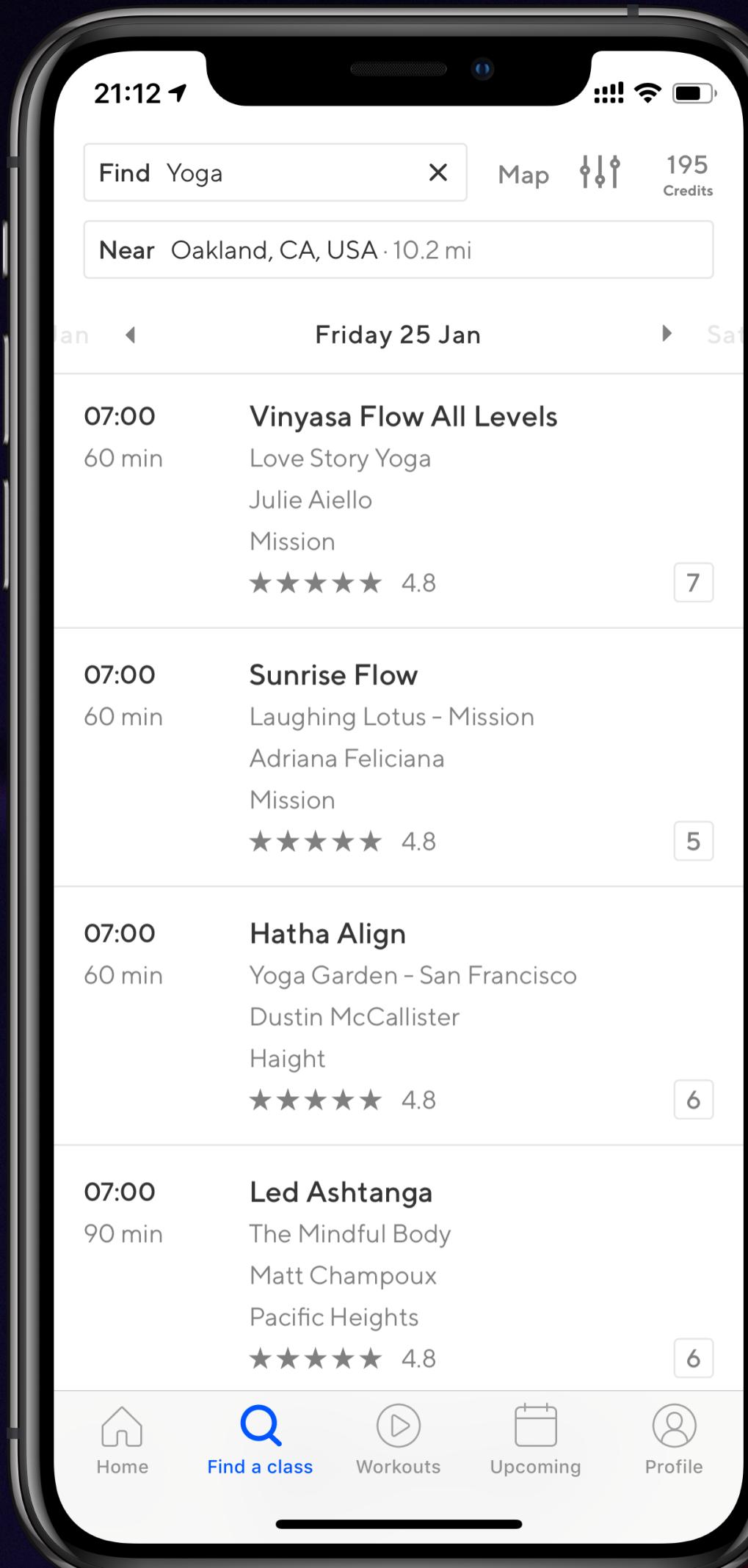
📱 mobile dev for 10 years



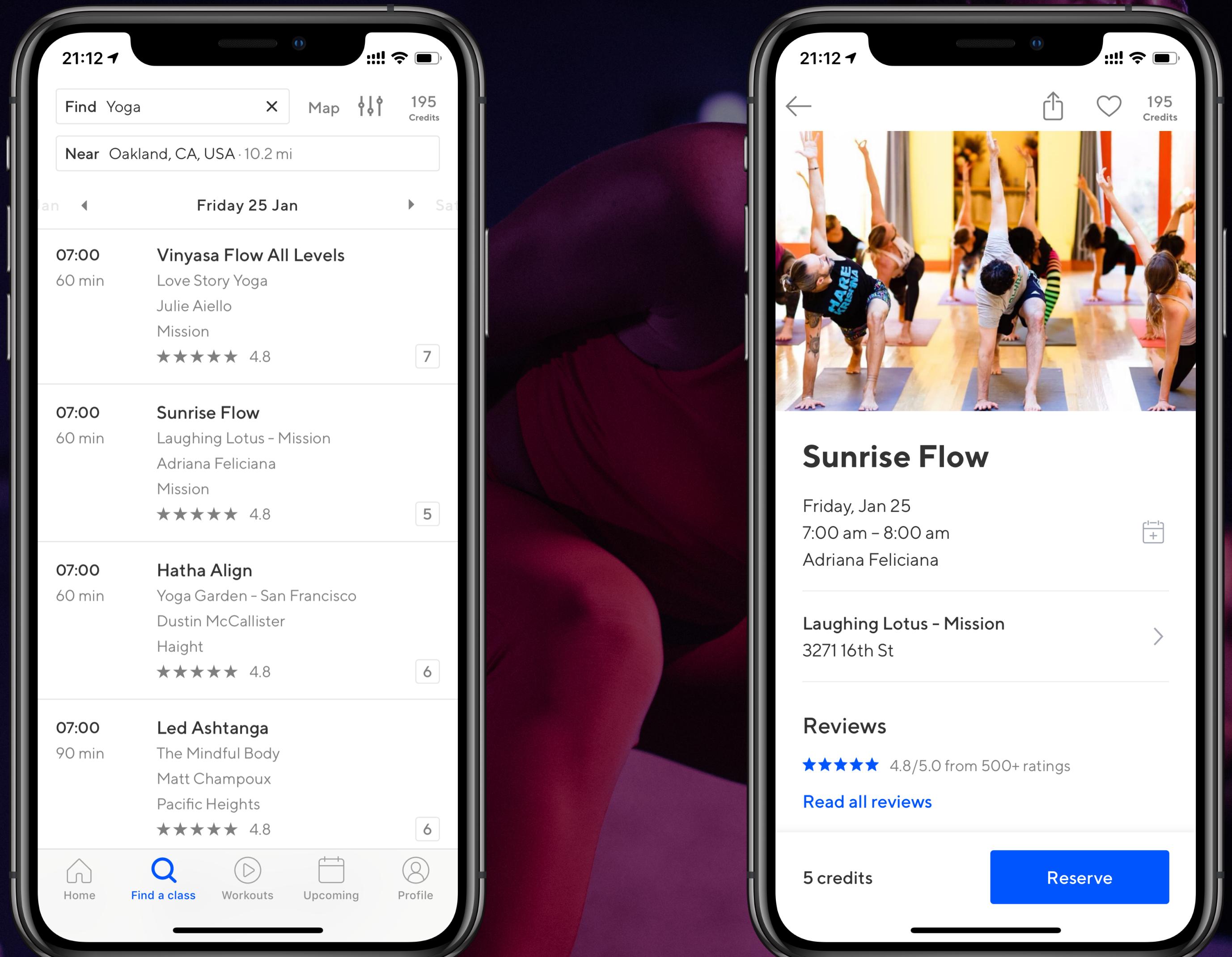
ClassPass is the world's leading marketplace for studio fitness, gym and wellness



ClassPass is the world's leading marketplace for studio fitness, gym and wellness



ClassPass is the world's leading marketplace for studio fitness, gym and wellness



The image shows two smartphones side-by-side, both displaying the ClassPass mobile application. The background features a large, blurred photograph of a woman in a red leotard, possibly a dancer or fitness instructor, in a dynamic pose.

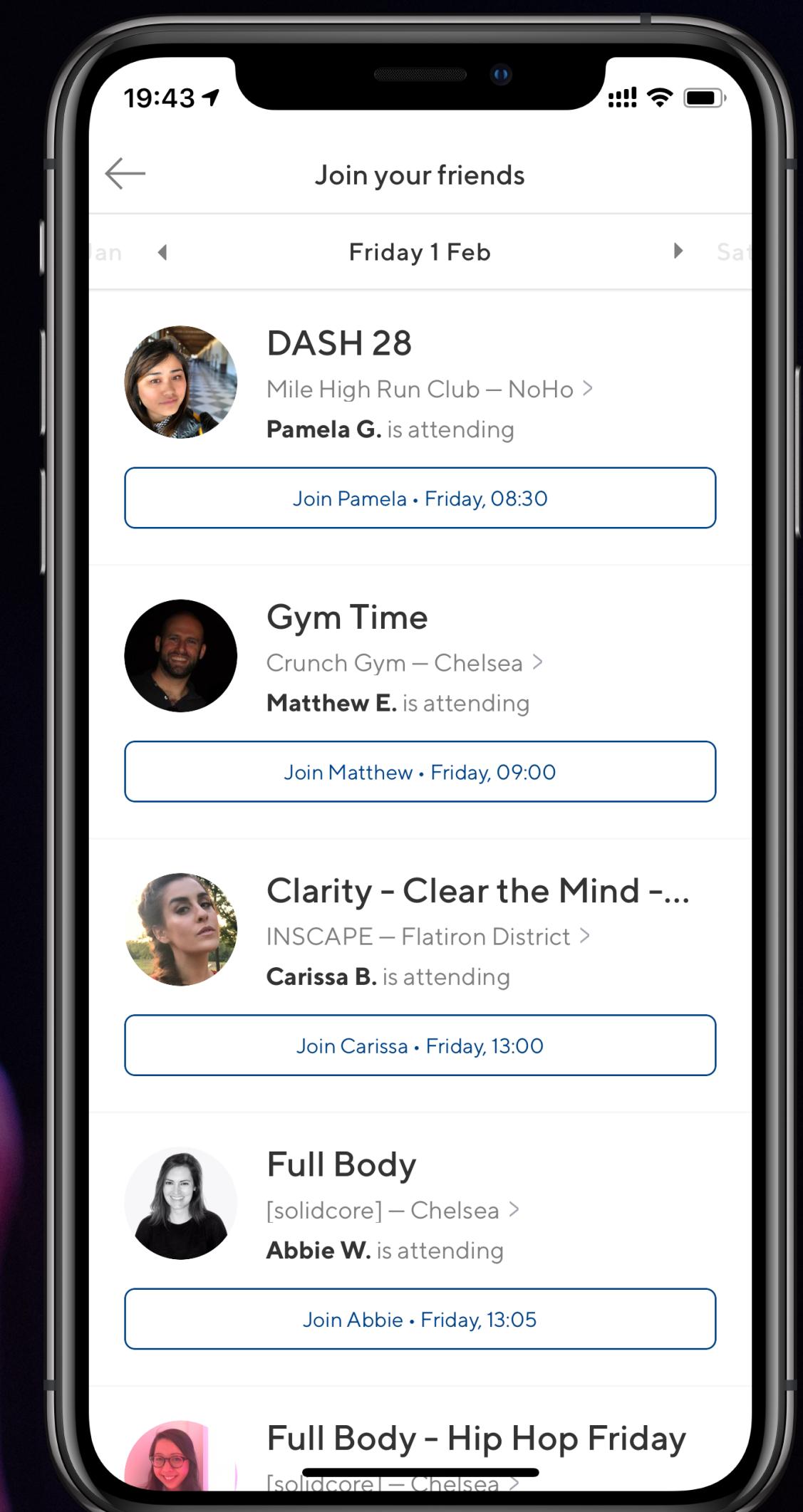
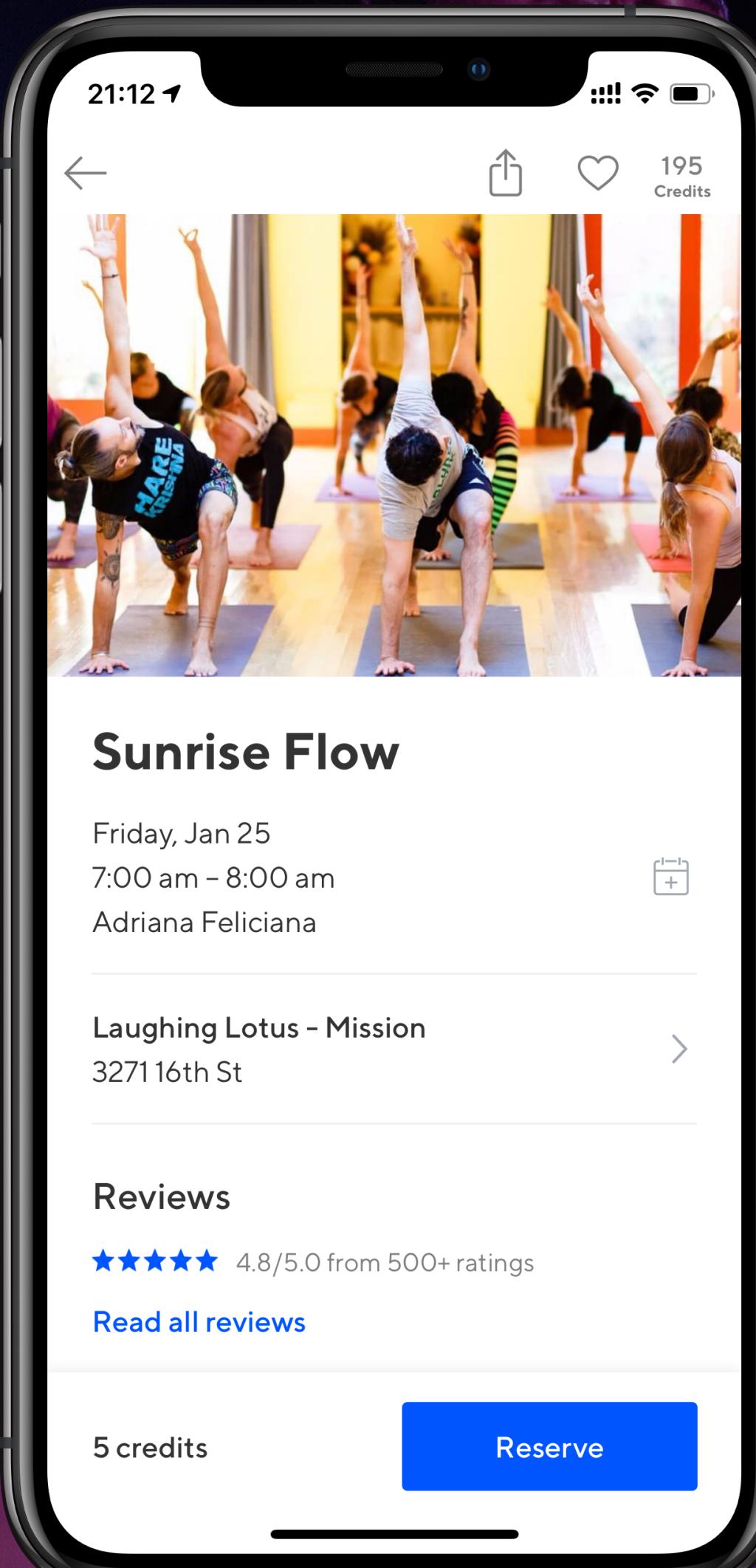
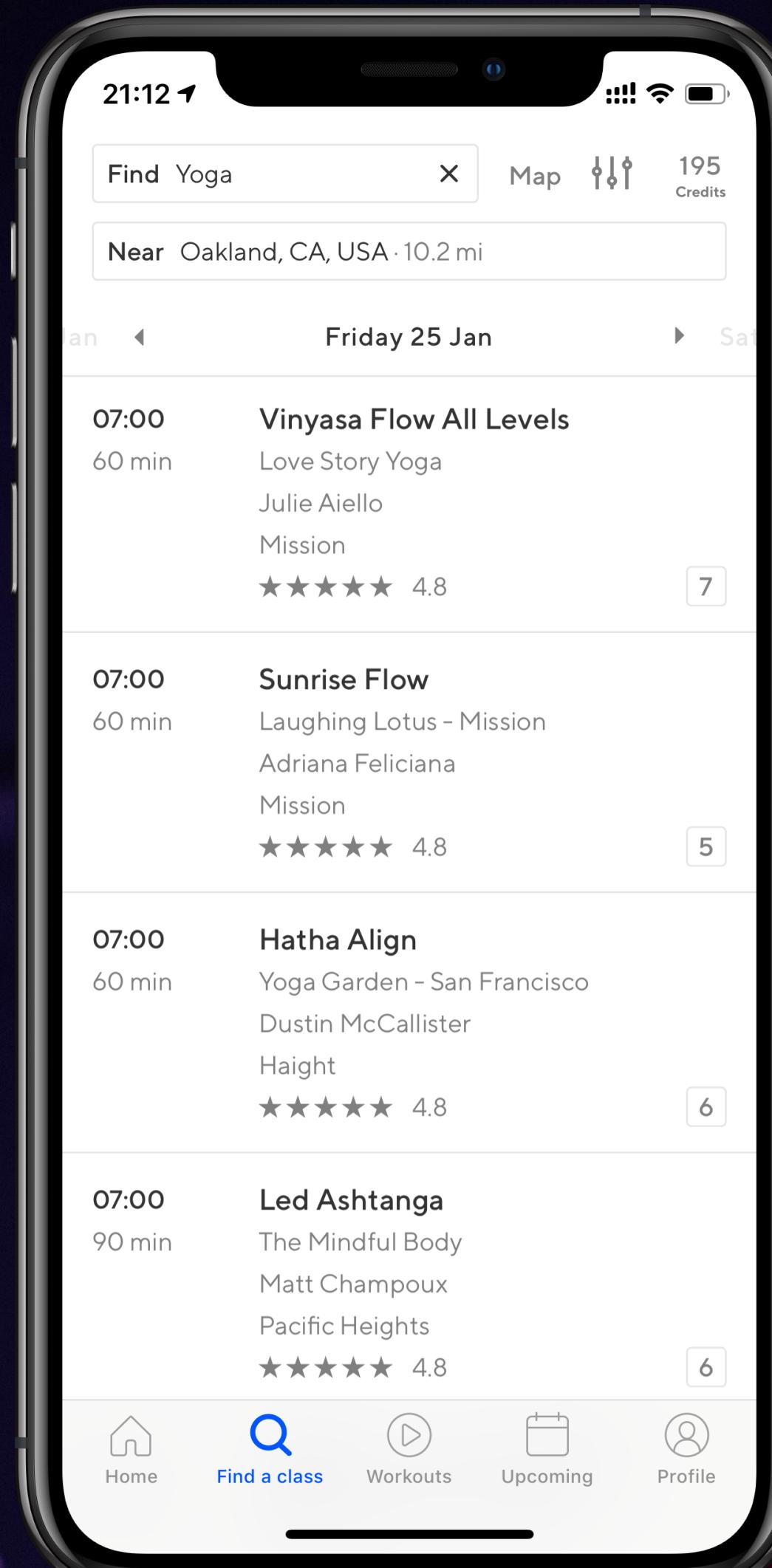
Left Phone Screen:

- Search Bar:** Find Yoga
- Location:** Near Oakland, CA, USA · 10.2 mi
- Date:** Friday 25 Jan
- Class Listings:**
 - Vinyasa Flow All Levels** at 07:00 by Love Story Yoga (Julie Aiello, Mission) - 4.8 stars (7 reviews)
 - Sunrise Flow** at 07:00 by Laughing Lotus - Mission (Adriana Feliciana, Mission) - 4.8 stars (5 reviews)
 - Hatha Align** at 07:00 by Yoga Garden - San Francisco (Dustin McCallister, Haight) - 4.8 stars (6 reviews)
 - Led Ashtanga** at 07:00 by The Mindful Body (Matt Champoux, Pacific Heights) - 4.8 stars (6 reviews)
- Bottom Navigation:** Home, Find a class (highlighted in blue), Workouts, Upcoming, Profile

Right Phone Screen:

- Class Detail:** Sunrise Flow on Friday, Jan 25, 7:00 am - 8:00 am, taught by Adriana Feliciana at Laughing Lotus - Mission (3271 16th St).
- Reviews:** 4.8/5.0 from 500+ ratings. [Read all reviews](#).
- Reserve Button:** A large blue button labeled "Reserve" with the text "5 credits" above it.

ClassPass is the world's leading marketplace for studio fitness, gym and wellness



What is React Native?





**How do we use
React Native at ClassPass?**

Should you use React Native in your app?



What is React Native?



What is React Native?



React

is a

**declarative
component-based
UI library**

React is declarative

React is declarative

**Describe what you want,
not how to create it**

React is declarative

React is declarative

View = $f(\text{State})$

React is declarative

State



“name”

[1,2,3]

React is declarative

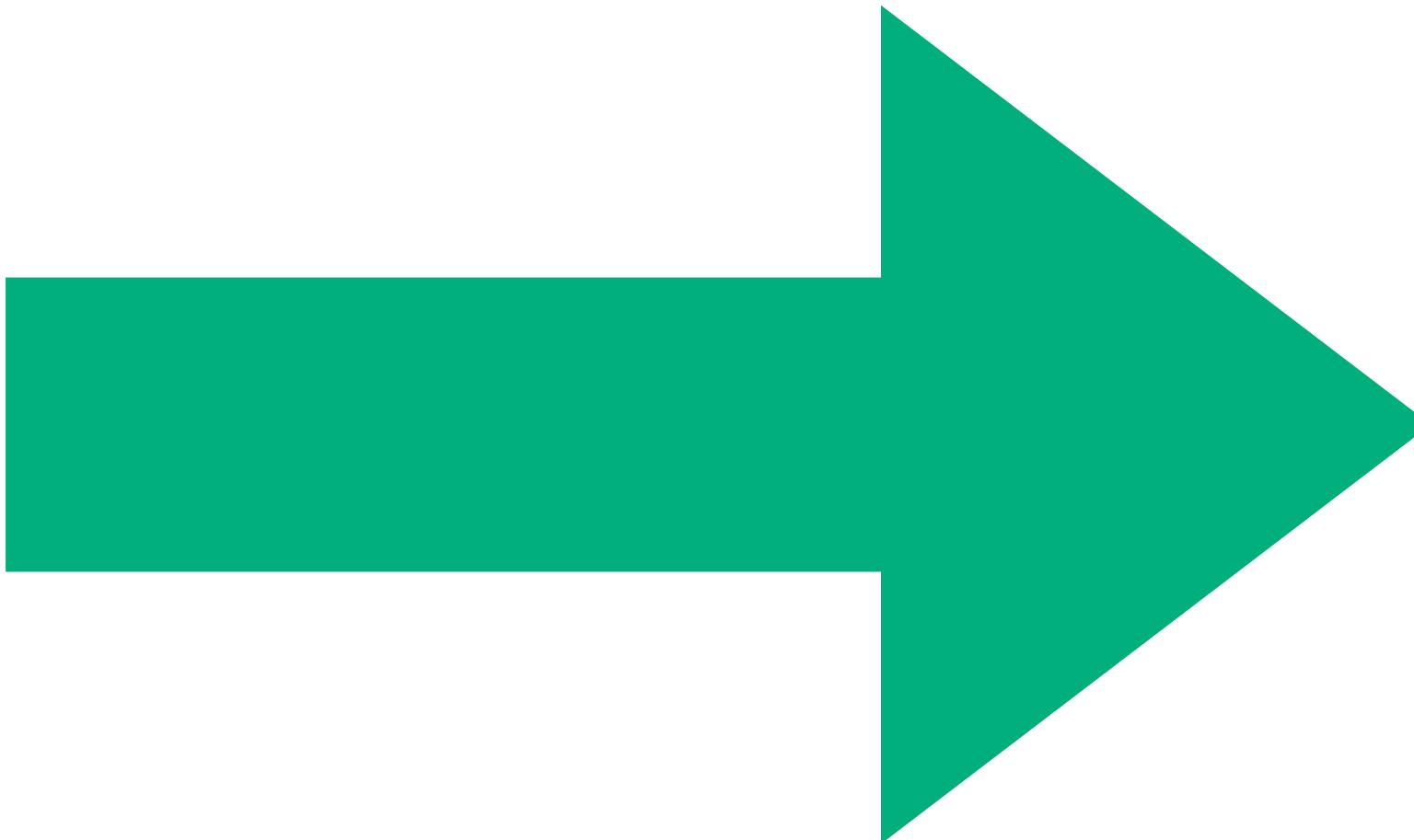
State



f

“name”

[1,2,3]



React is declarative

State

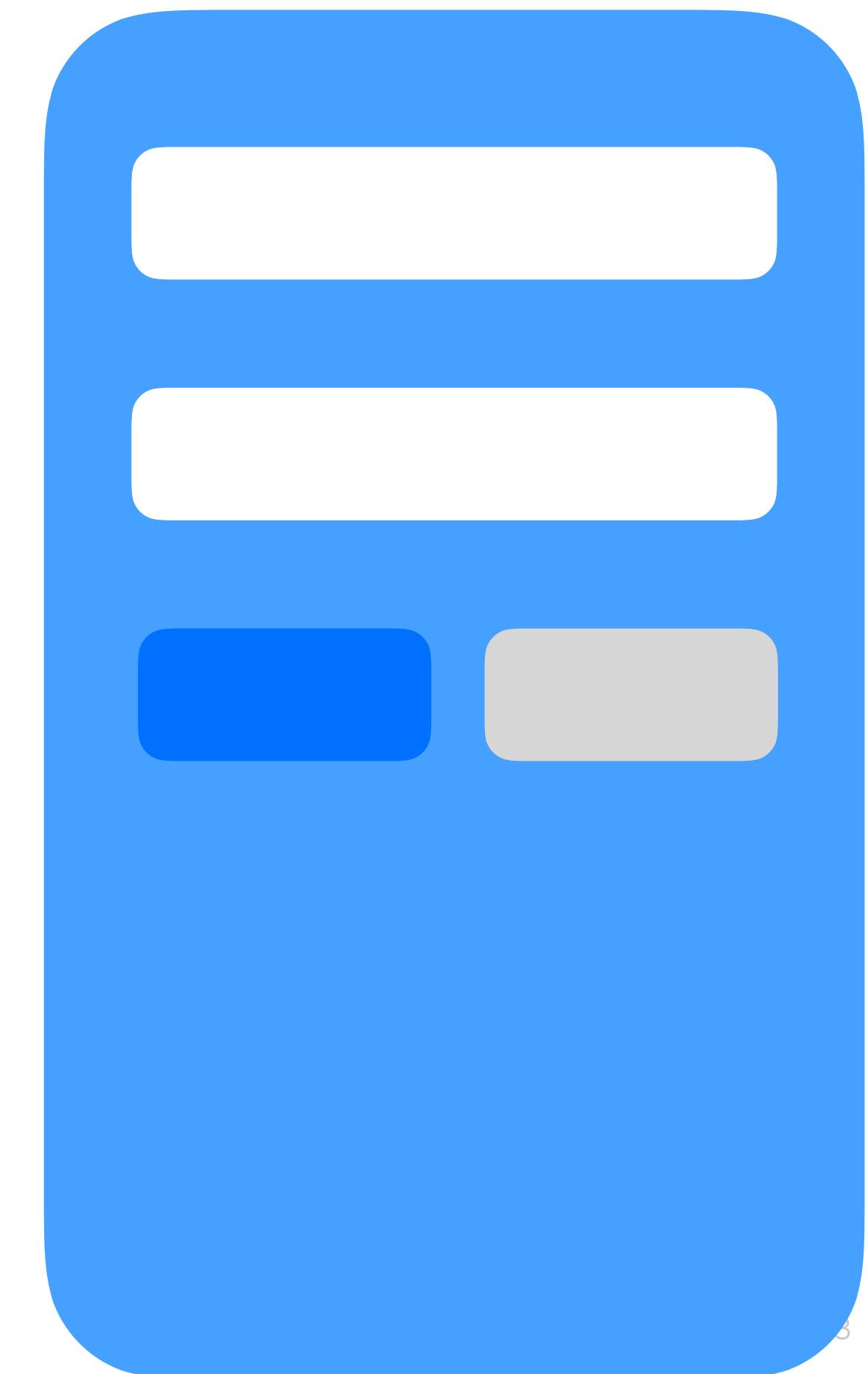
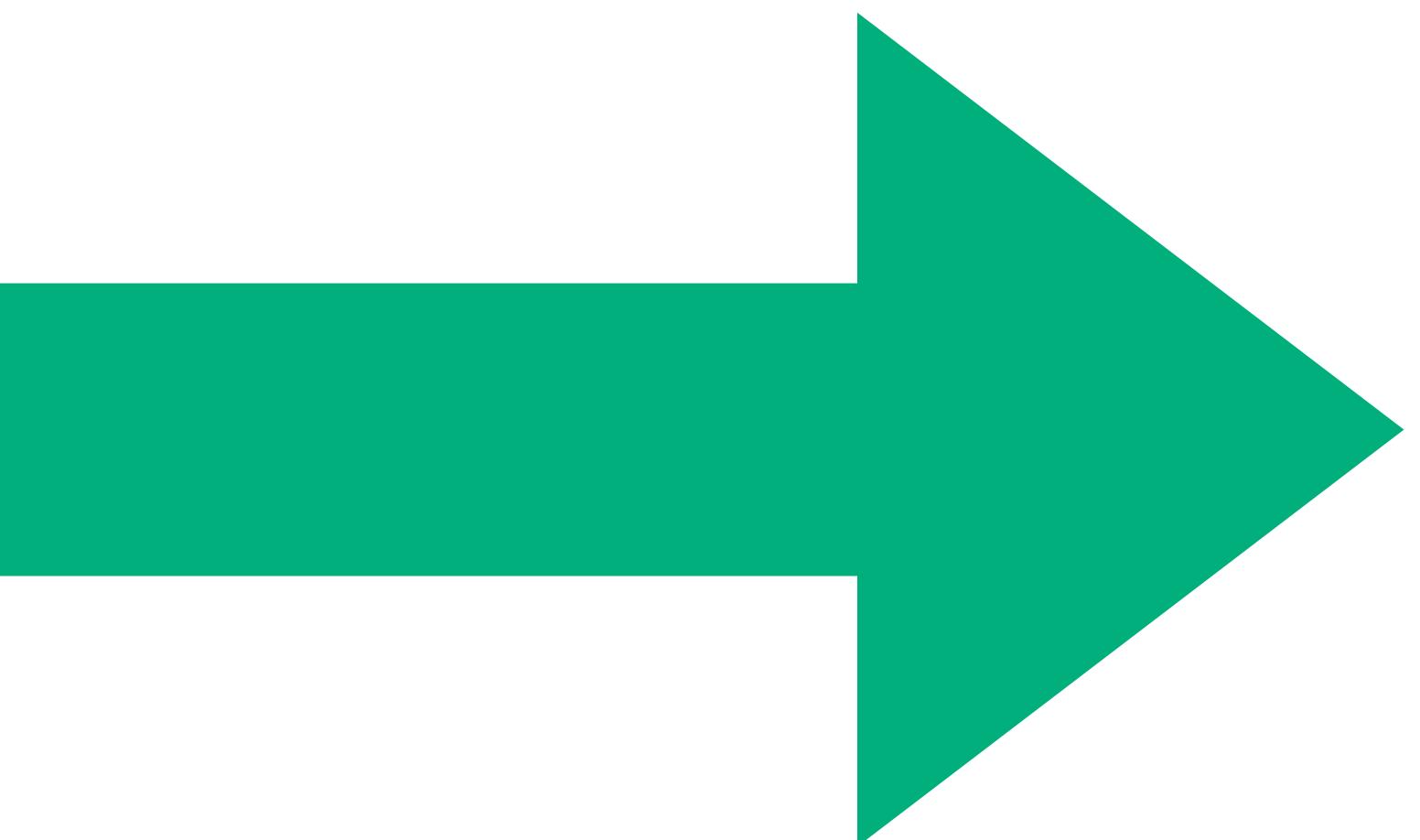


“name”

[1,2,3]

f

View



React is not imperative

React is not imperative

View



React is not imperative

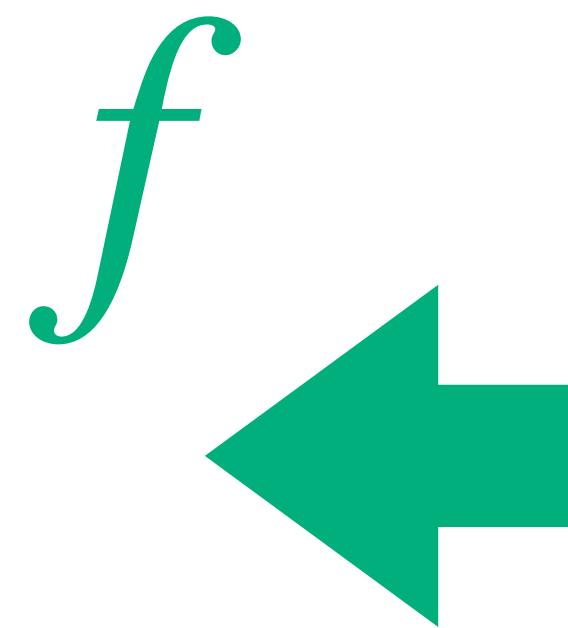
View



[1, 2, 3]

React is not imperative

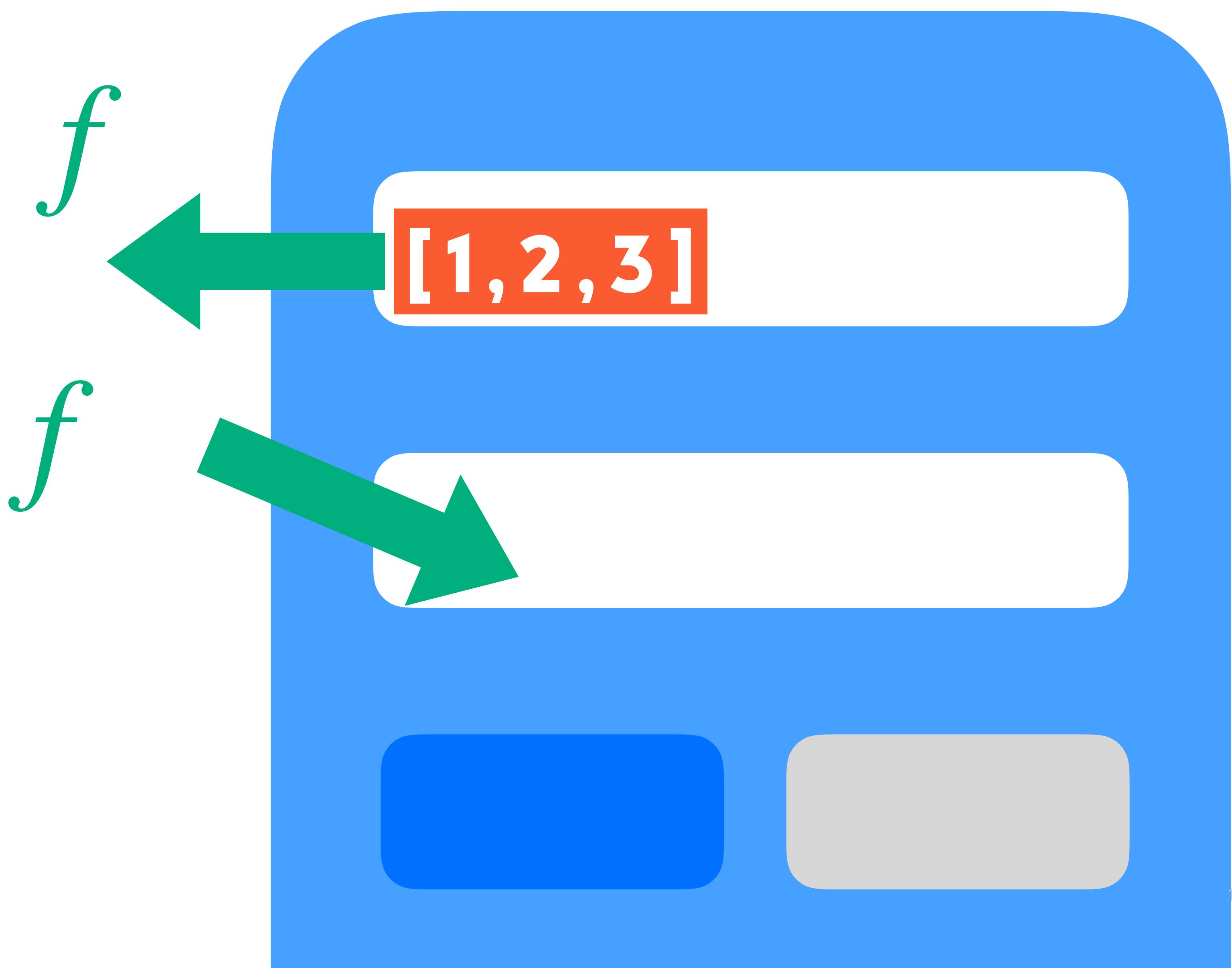
View



[1, 2, 3]

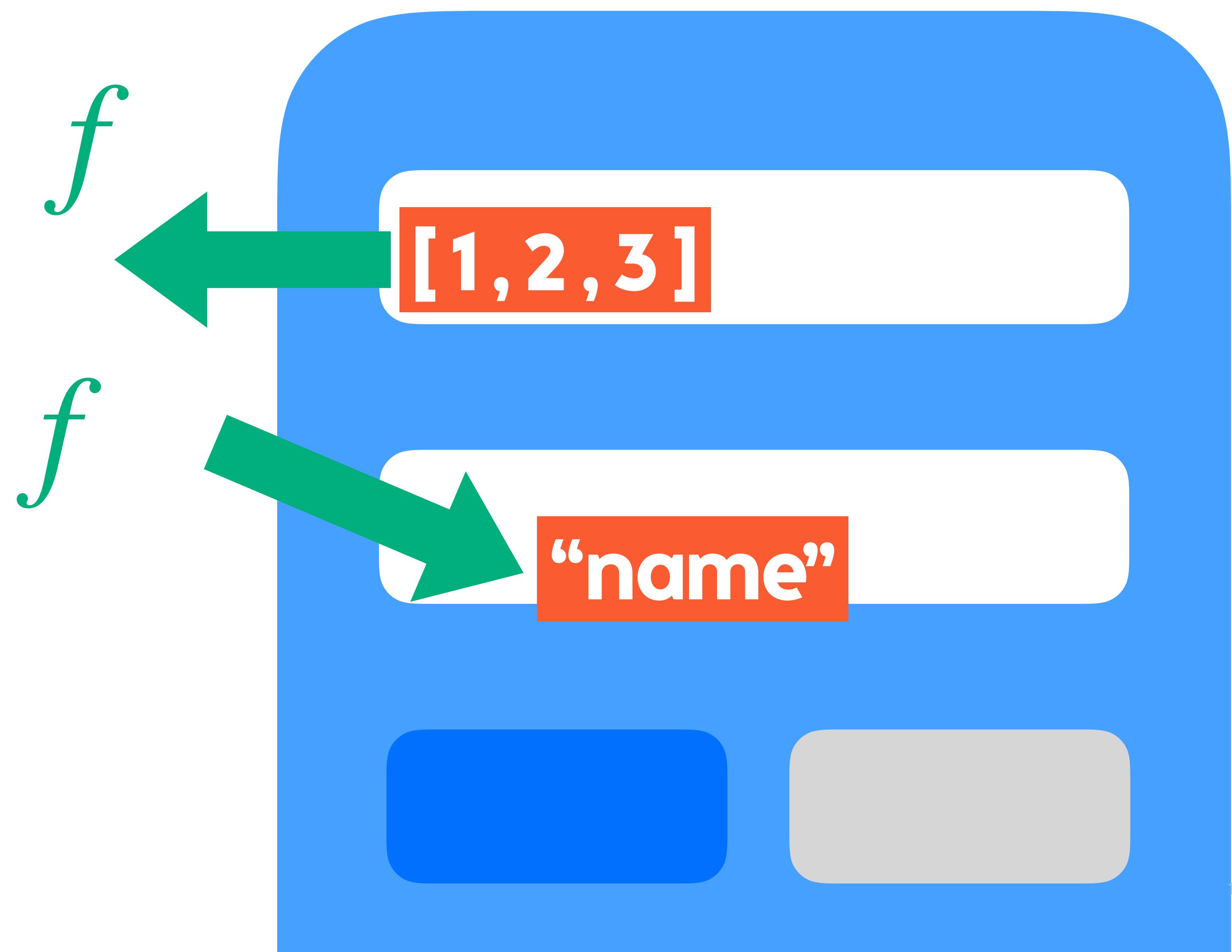
React is not imperative

View



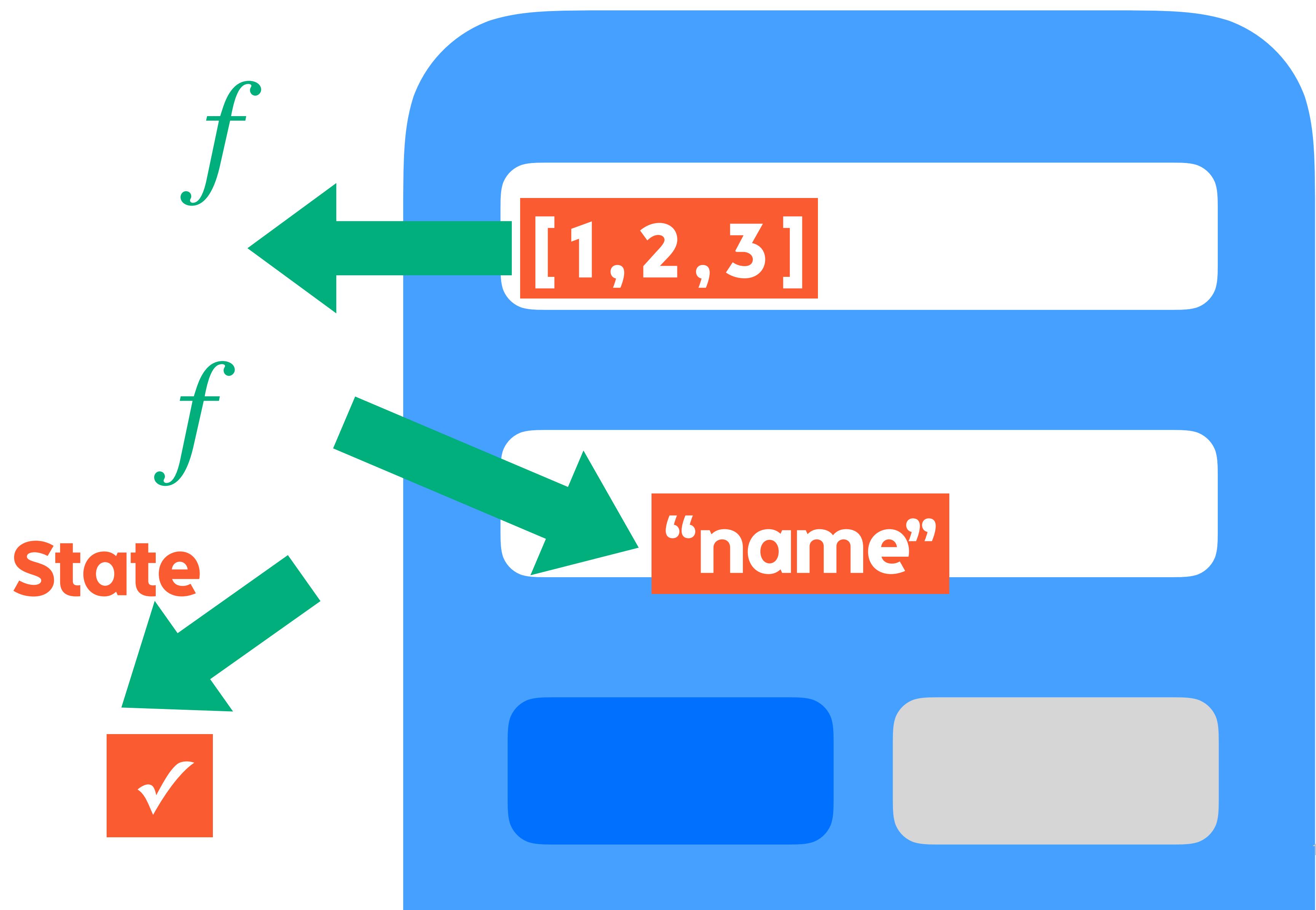
React is not imperative

View



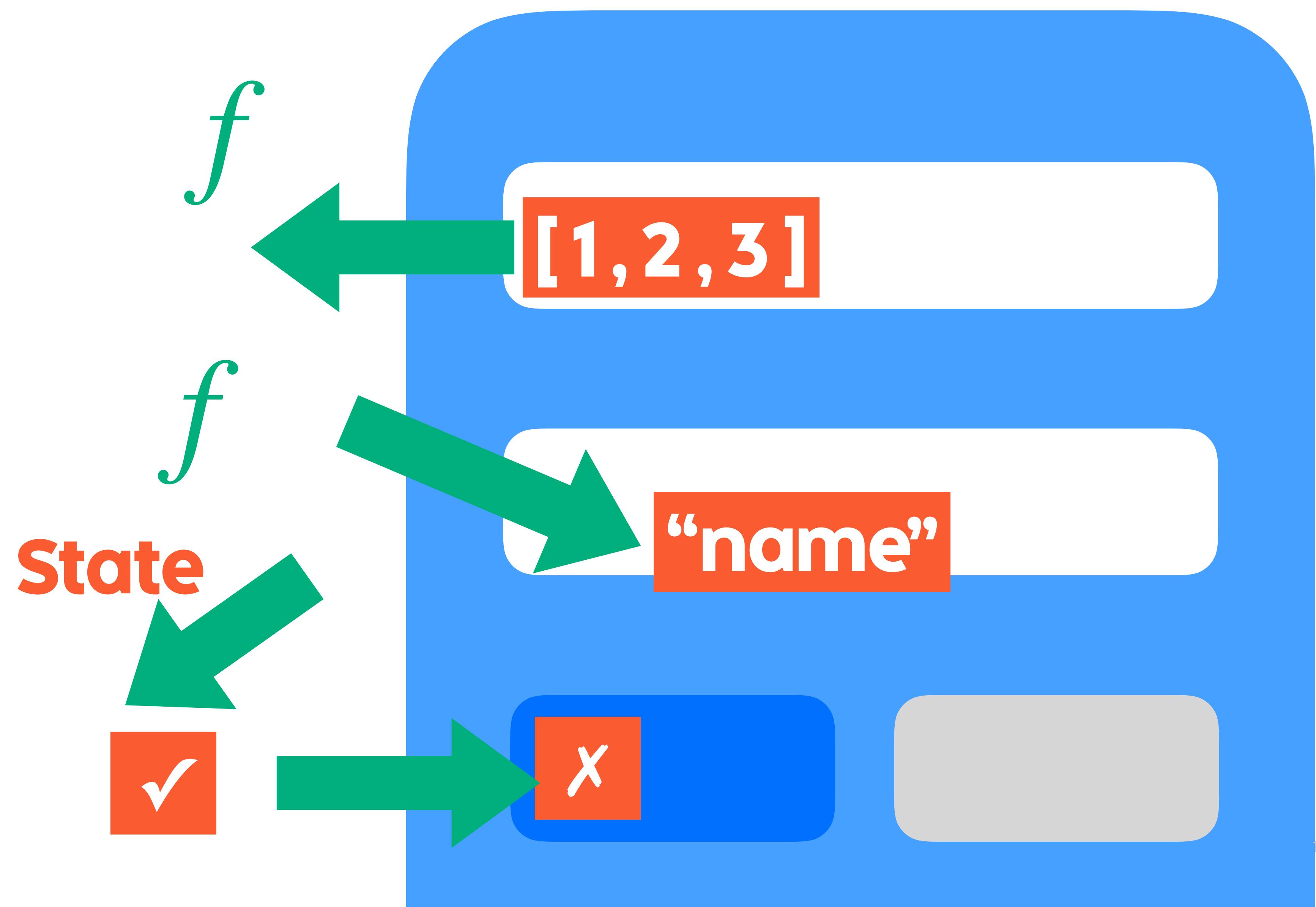
React is not imperative

View



React is not imperative

View



React is declarative

State

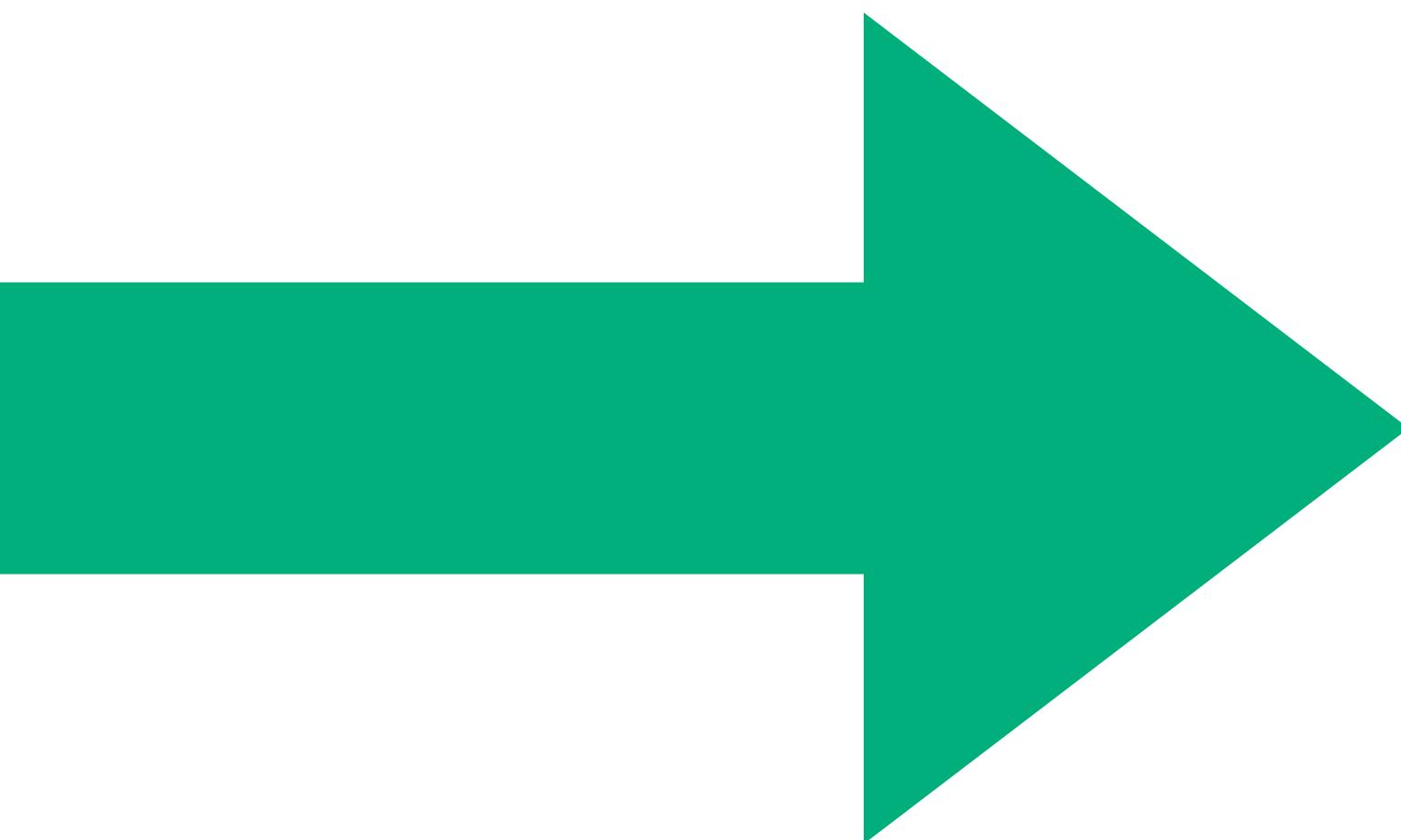


“name”

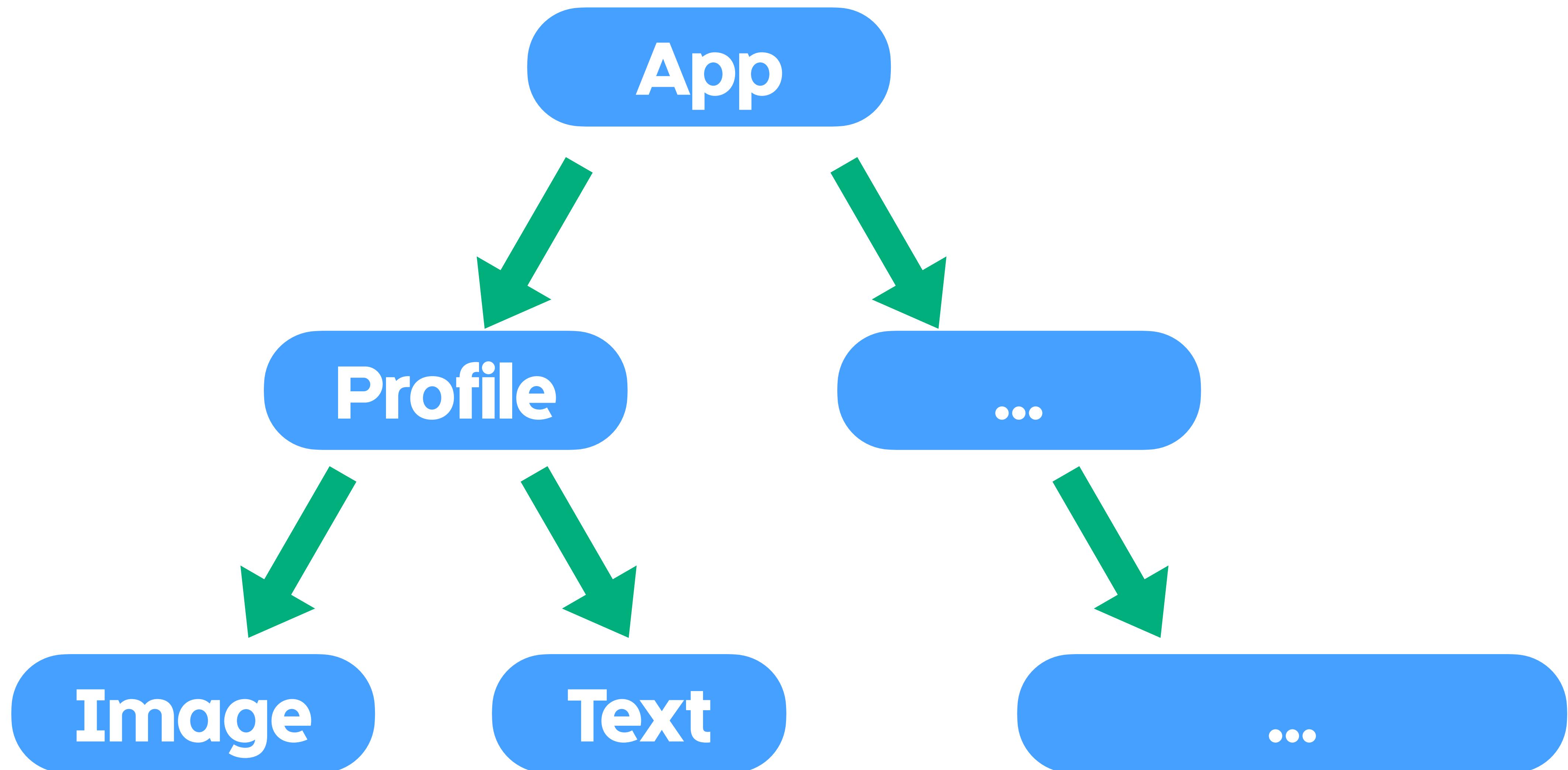
[1,2,3]

f

View



React is component based



React is component based

React is component based

```
<Image  
  uri={this.state.image}>  
</Image>  
<Text>  
  {this.state.name}</Text>
```

React is component based

```
render() {  
  return (  
    <Image  
      uri={this.state.image}  
    />  
    <Text>  
      {this.state.name}  
    </Text>  
  )  
}
```

React is component based

```
class Profile extends Component {  
  render() {  
    return (  
      <Image  
        uri={this.state.image}  
      />  
      <Text>  
        {this.state.name}  
      </Text>  
    )  
  }  
}
```

React

is a

**declarative
component-based
UI library**

What is React Native?



React Native

is a

**JavaScript framework for
writing native mobile
apps using React**

why React Native?

Why React Native?

Cross-platform

Create two mobile apps
from one codebase.

Better developer experience

Hot reloading reduces length of
iteration cycles because you don't have
to wait for compilation.

JavaScript

You probably have web developers on
your team, writing your native app in
JavaScript means they can contribute.

A React Native app is a real mobile app

React Native rendering

Profile

Image

Text

React Native rendering

Profile

Image

Text

iOS

UIImageView

UILabel

React Native rendering

Profile

Image

Text

iOS

UIImageView

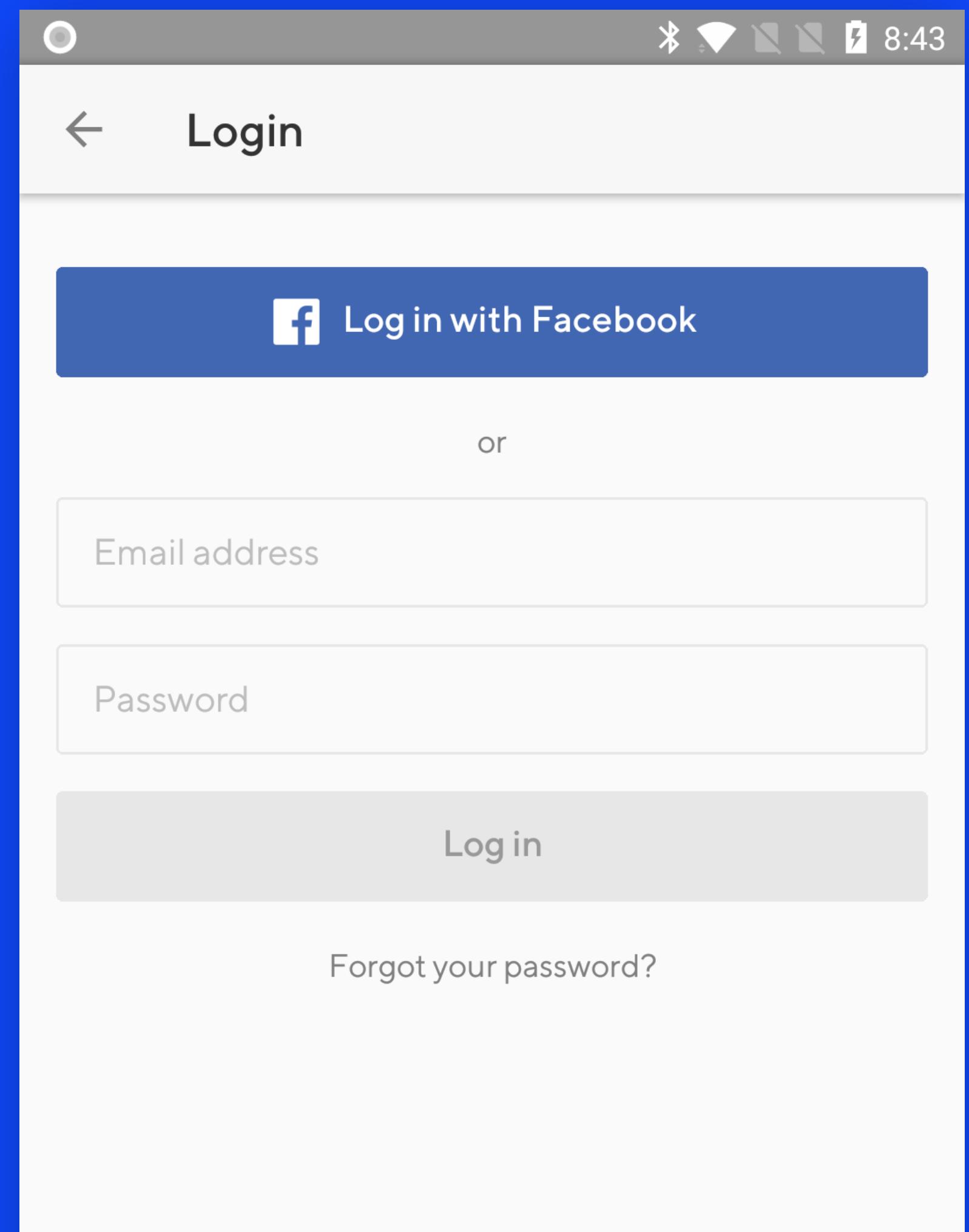
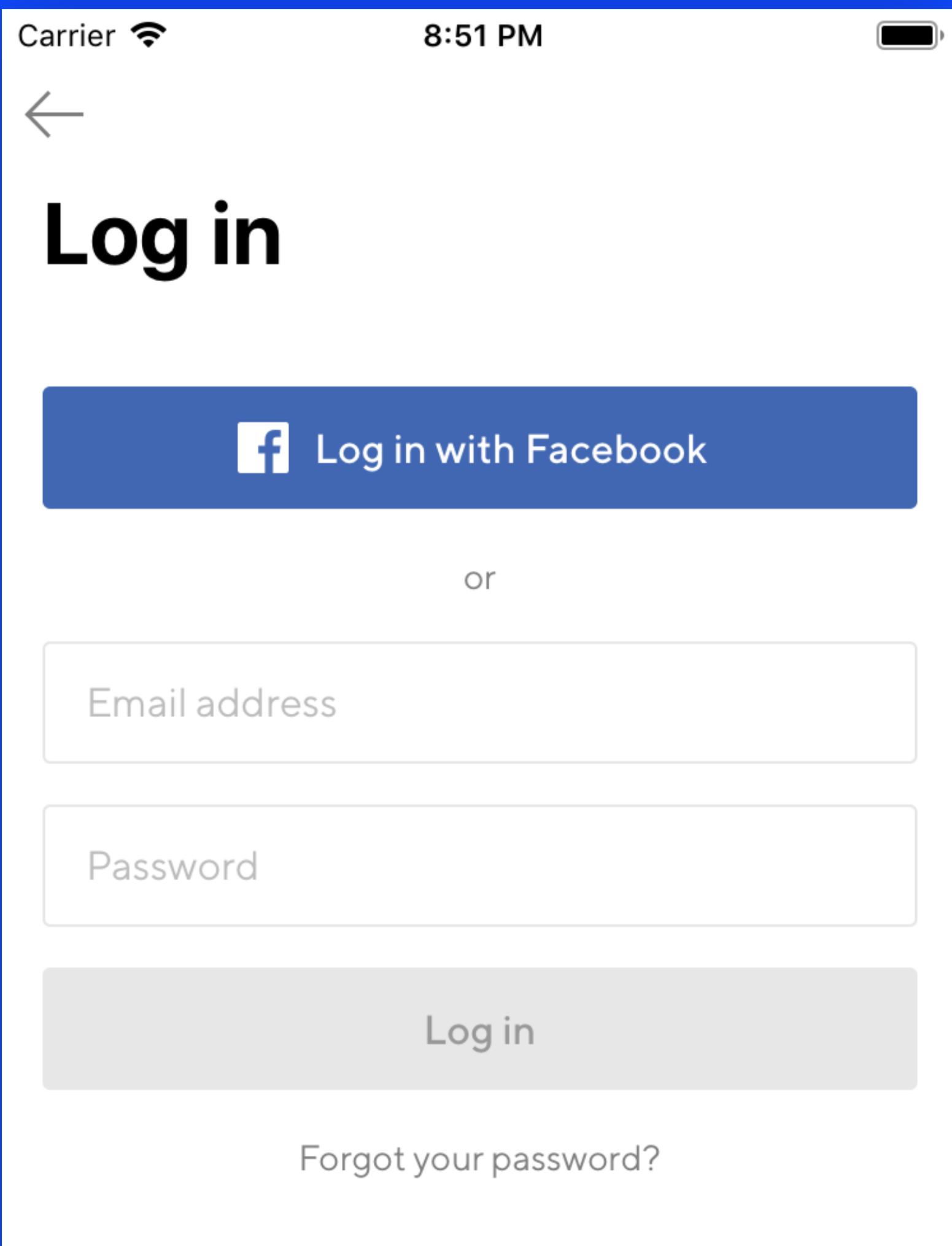
UILabel

Android

ImageView

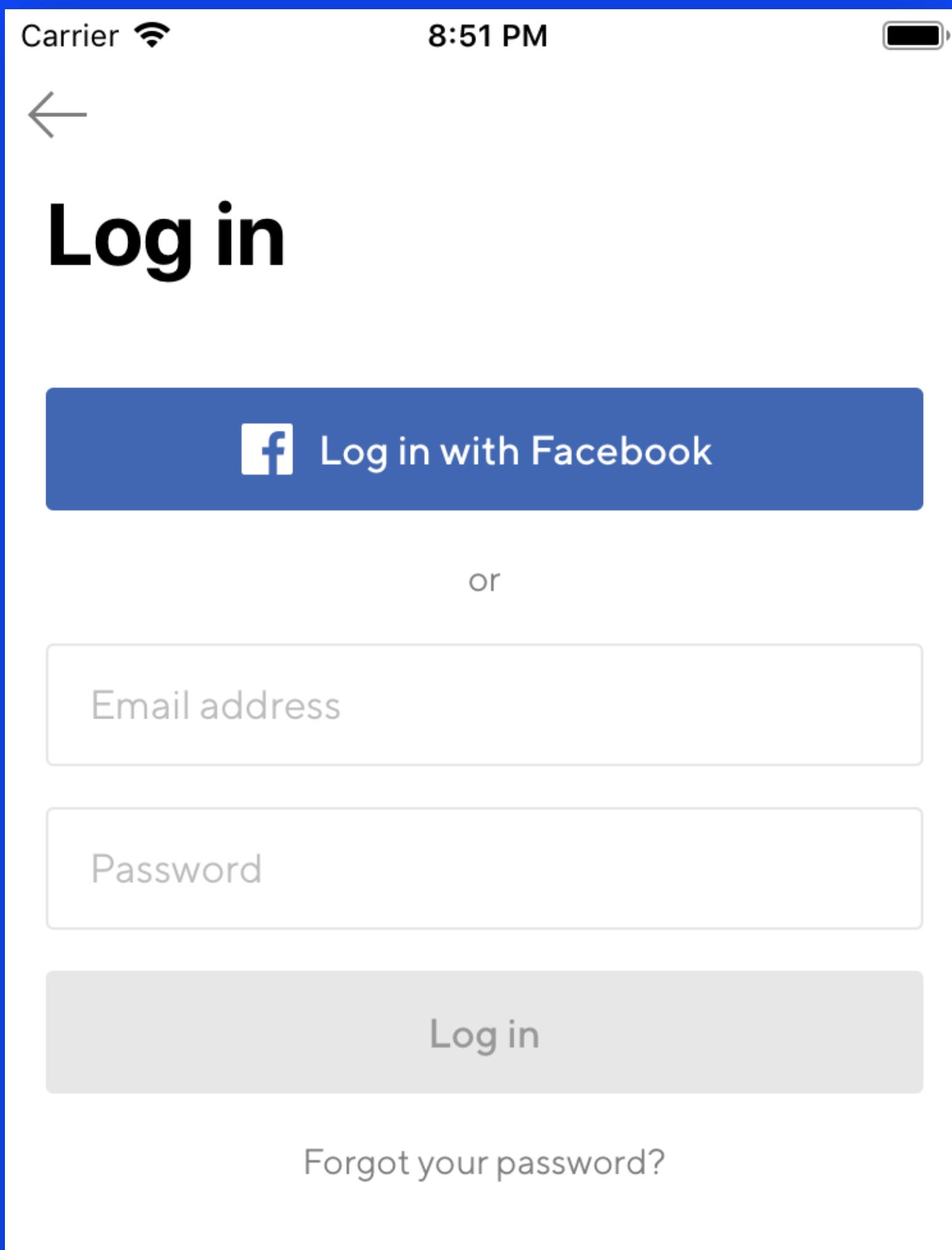
TextView

React Native rendering

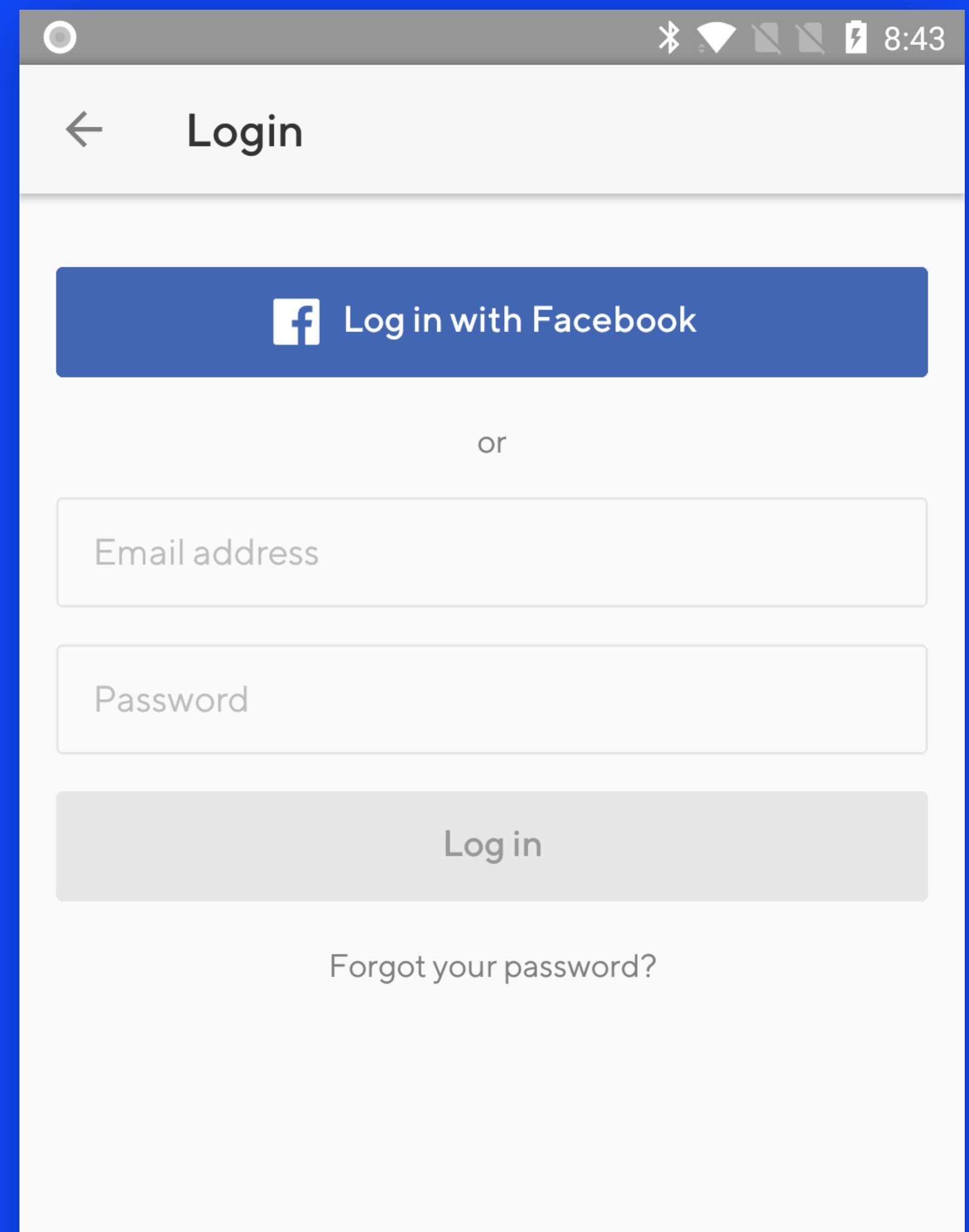


React Native rendering

iOS



Android



How do we use React Native at ClassPass?



Mobile at ClassPass

Mobile at ClassPass

- iOS app started in 2014

Mobile at ClassPass

- iOS app started in 2014
- Android app started in 2015

Mobile at ClassPass

- iOS app started in 2014
- Android app started in 2015
- React Native introduced in 2017

Mobile at ClassPass

- iOS app started in 2014
- Android app started in 2015
- React Native introduced in 2017
- around 15 mobile developers

monorepo



classpass-mobile



android



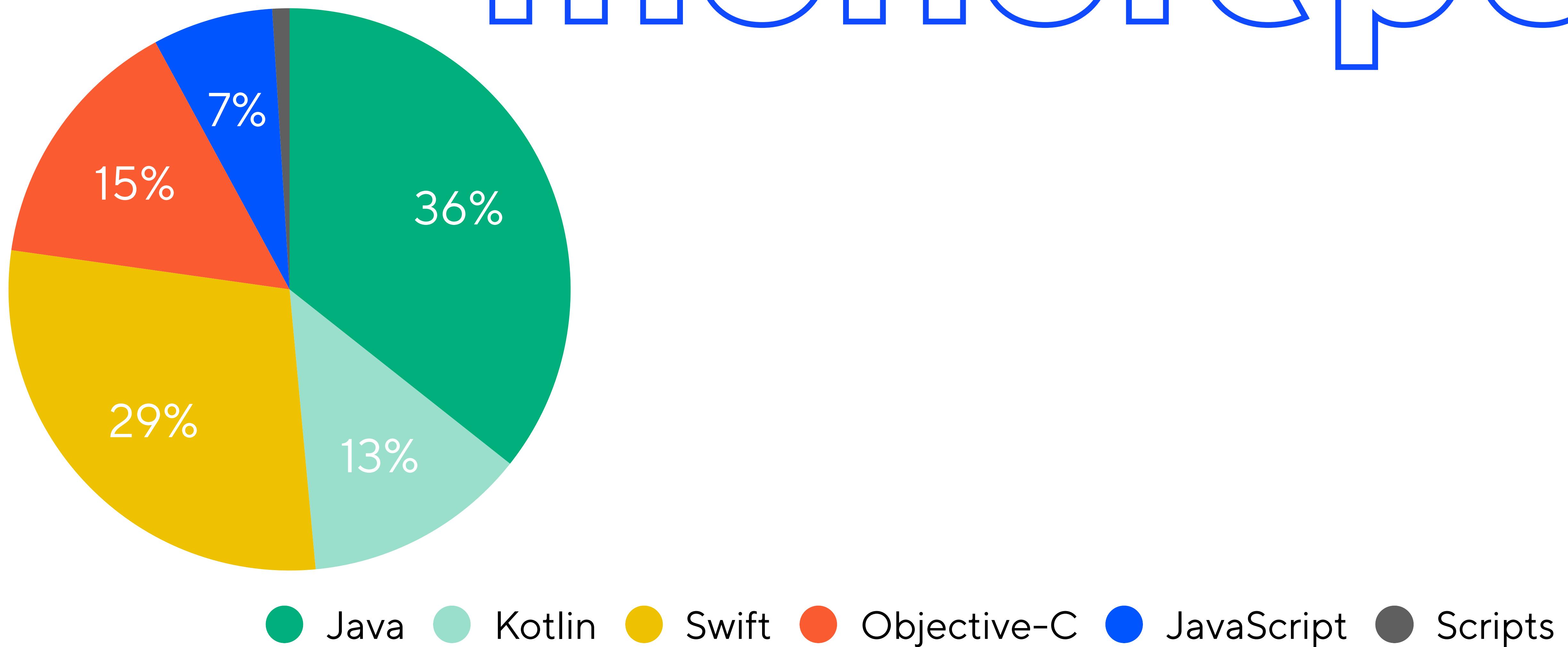
ios



react-native

classpass

monorepo



React Native at ClassPass

1

Venue detail

2

Sign up flow

3

Schedule list

React Native at ClassPass

1

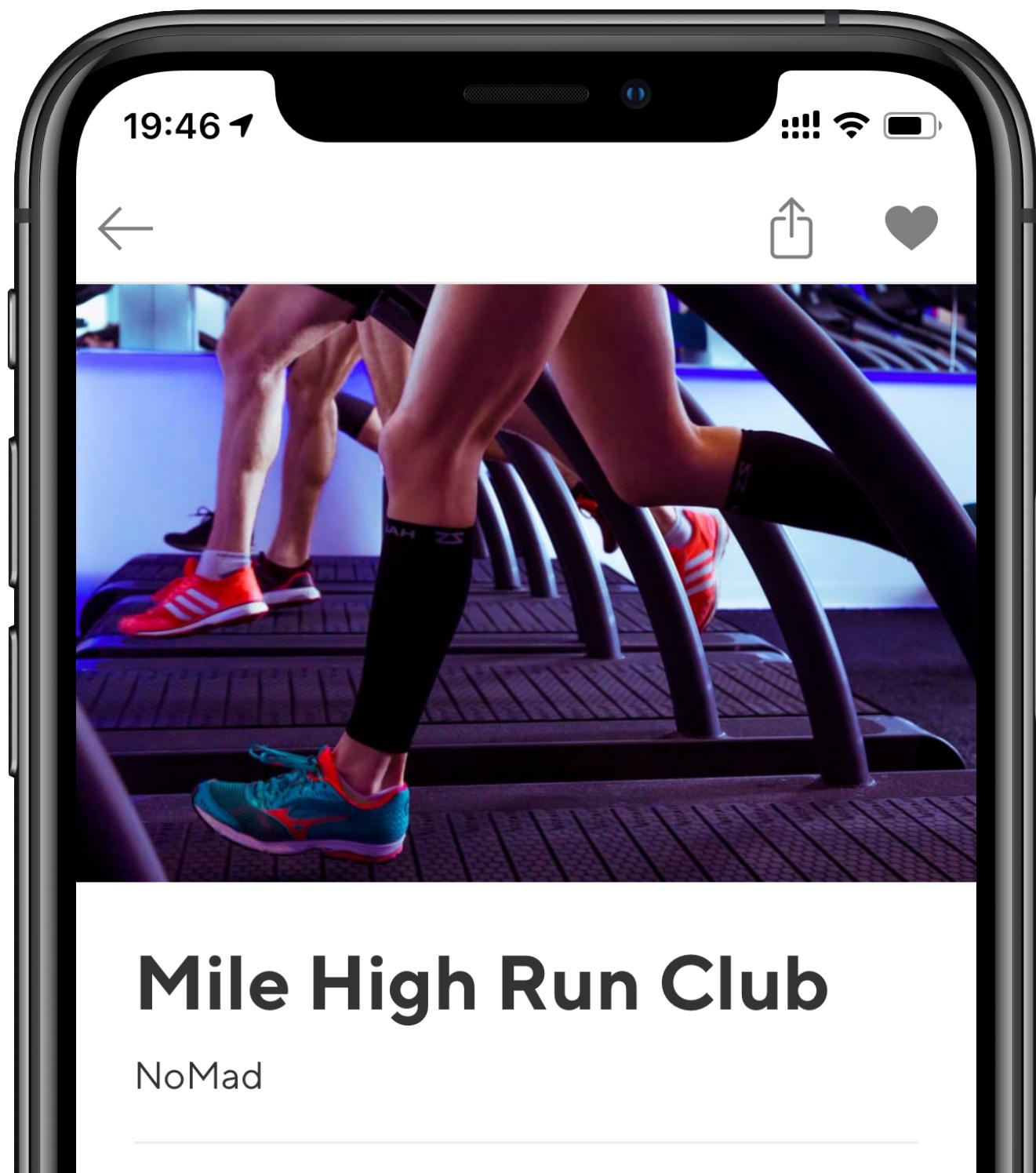
Venue detail

2

Sign up flow

3

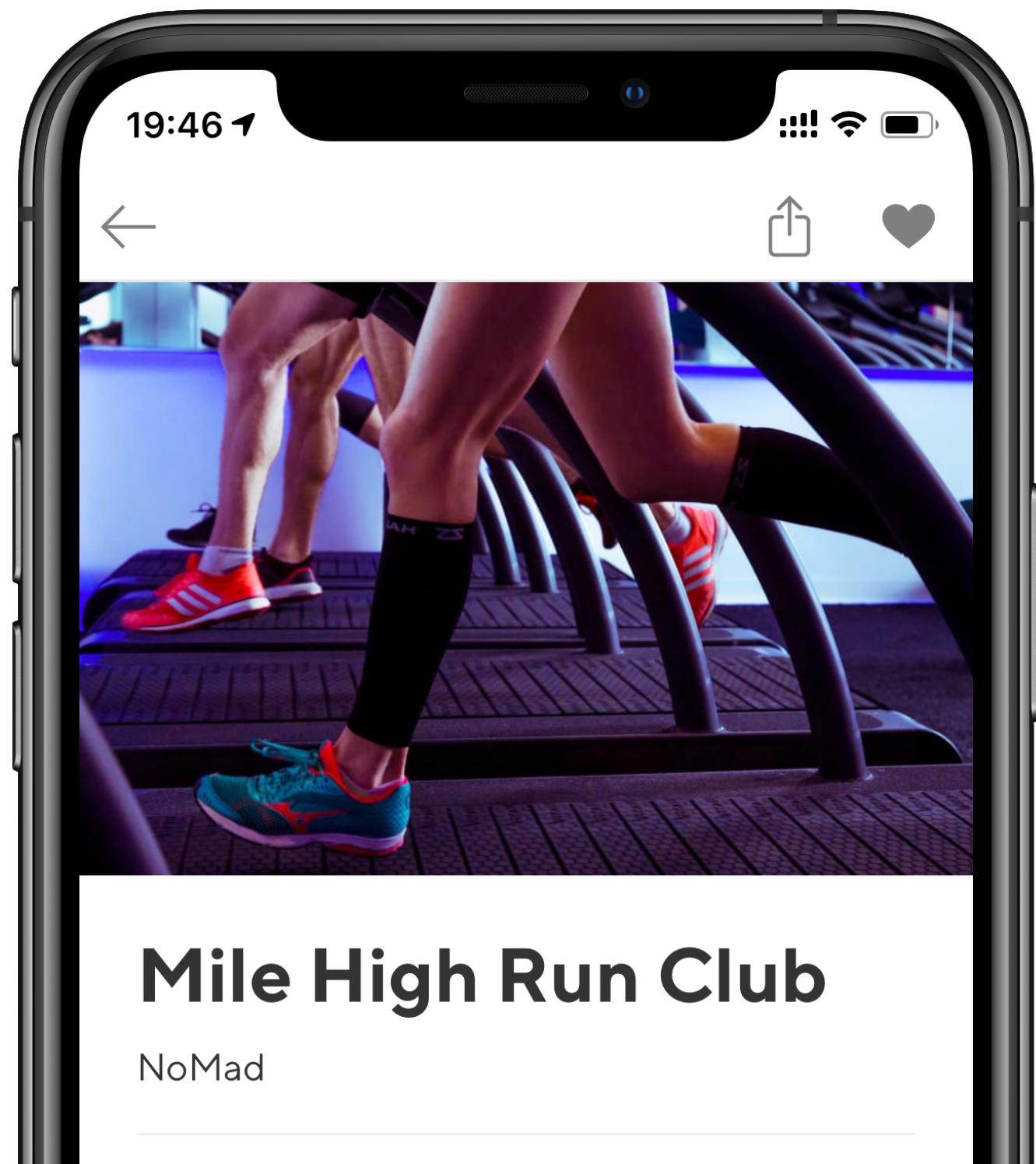
Schedule list



React Native at ClassPass

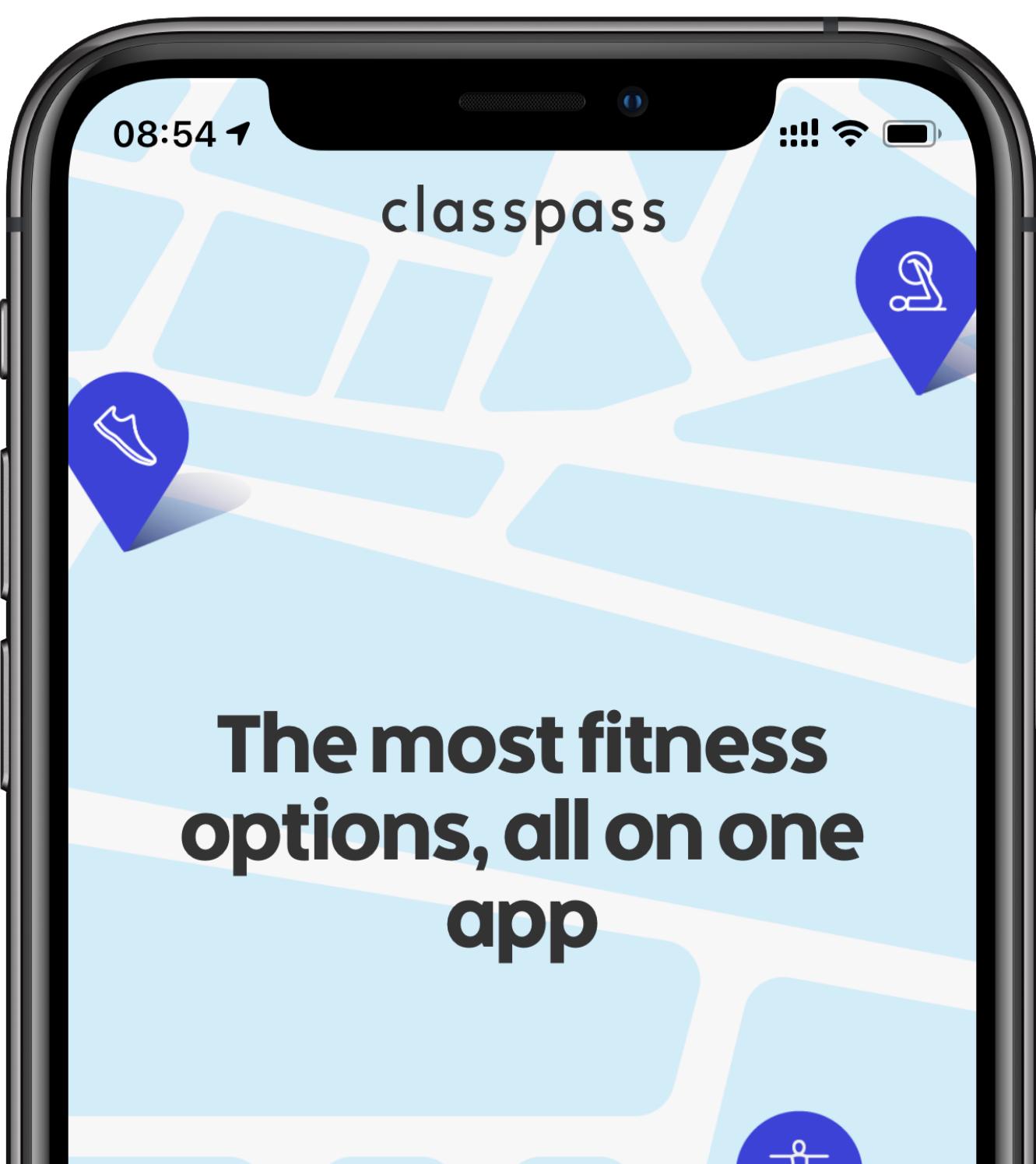
1

Venue detail



2

Sign up flow



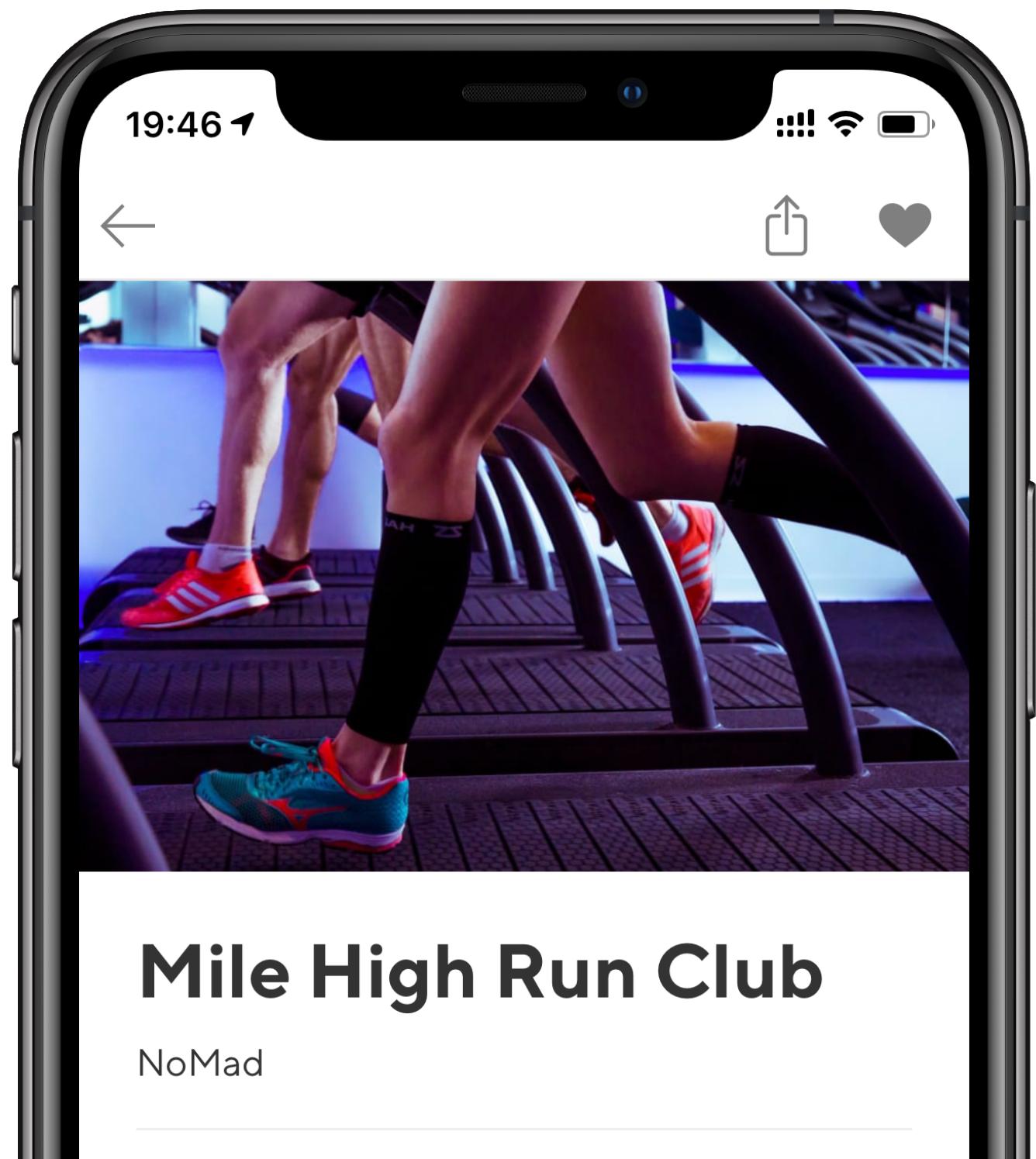
3

Schedule list

React Native at ClassPass

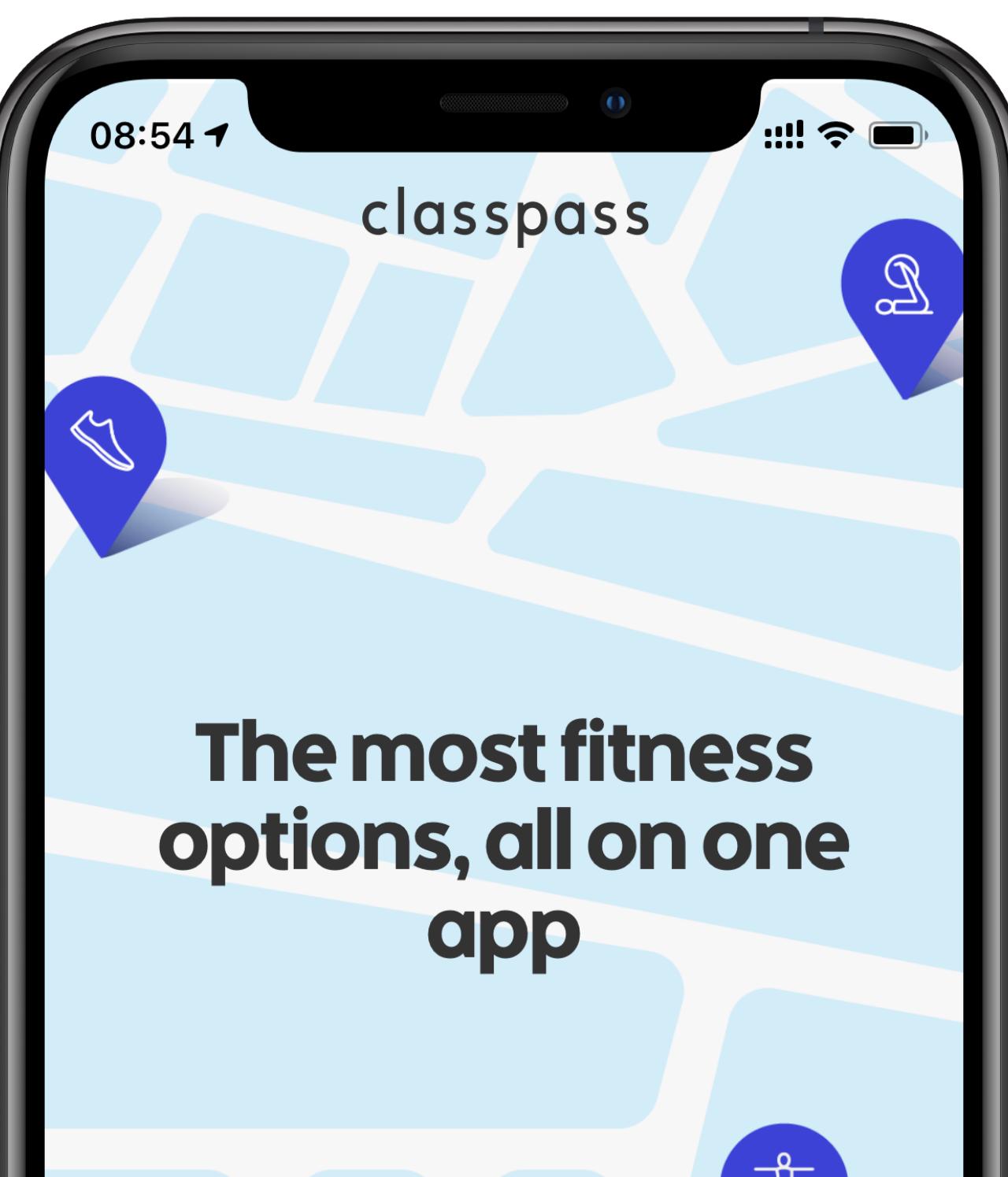
1

Venue detail



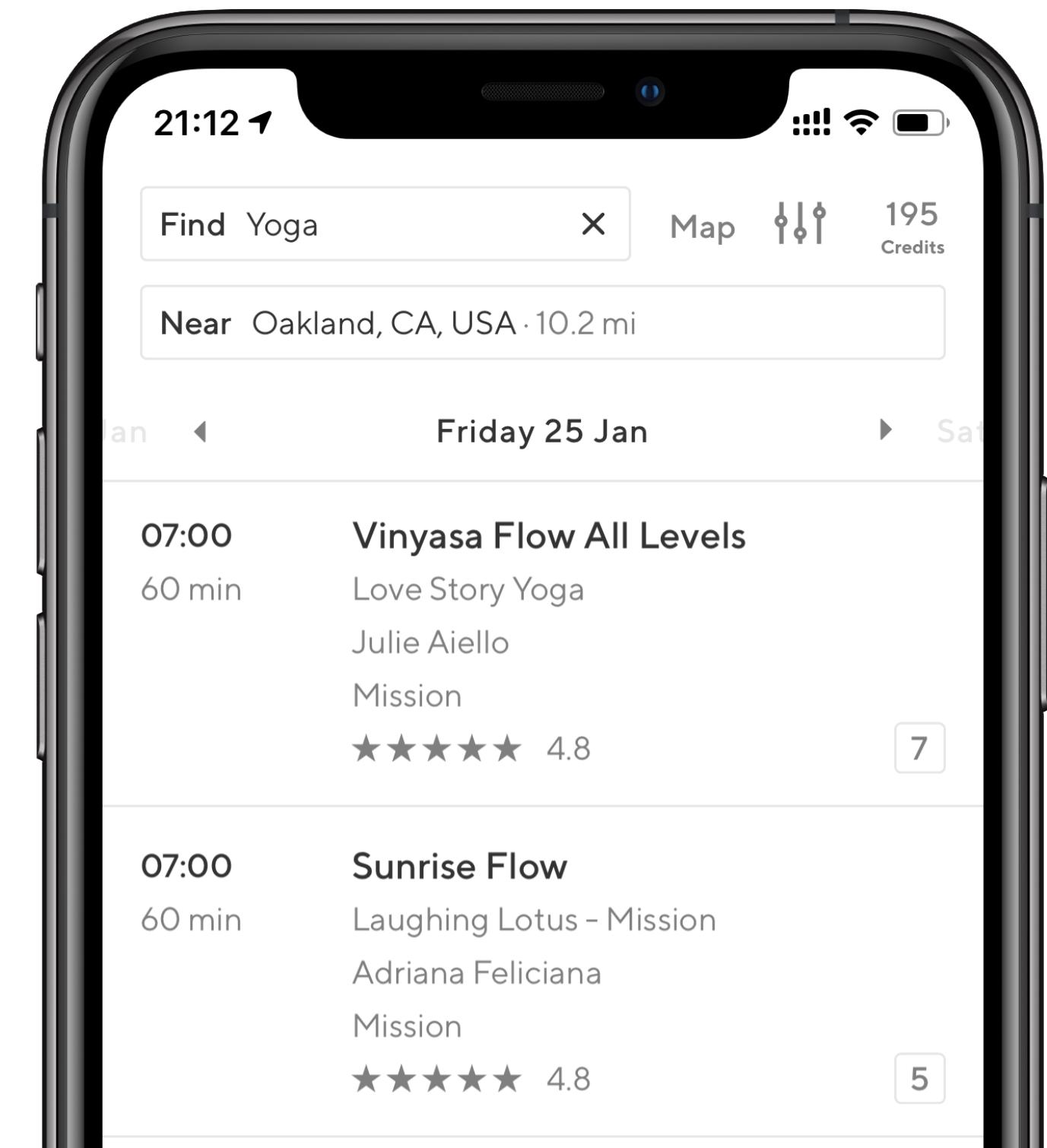
2

Sign up flow



3

Schedule list

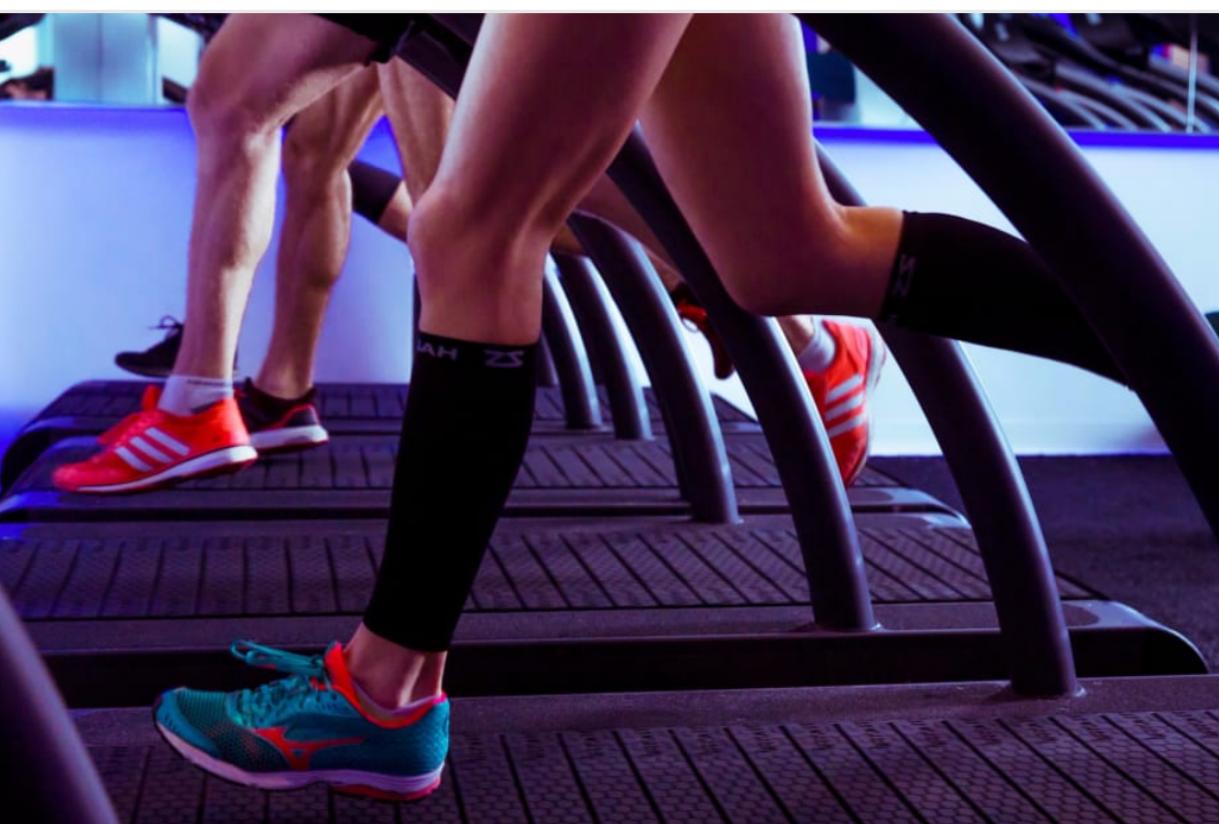


20:01 ↗



Venue detail

classpass



Mile High Run Club

NoMad

Reviews

★★★★★ 4.9/5.0 from 500+ ratings

[Read all reviews](#)

About the studio

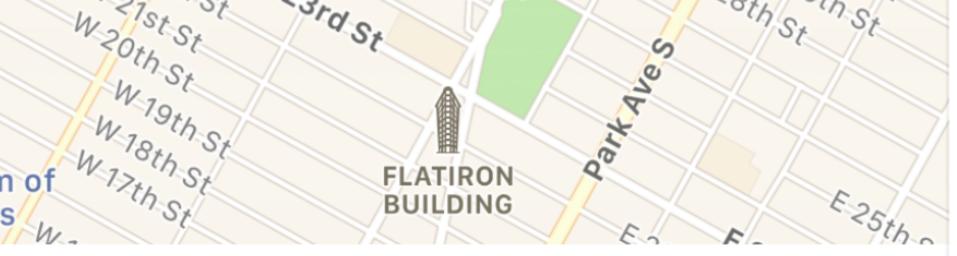
Activity: Strength Training, Outdoors, Running, Sports

Amenities: Showers, Towels, Lockers

Mile High Run Club is a premier fitness studio dedicated to the sport of running. All classes include a variety of speed, tempo, or hills and are designed for all fitness levels.

DASH 28, intervals with strength + power training

Venue detail



24 W 25th St, New York, NY 10010

How to get there

We currently have two locations in nyc -

28 E4th St. (NOHO)

24 W25th St. (NOMAD)

Please pay attention to the location when booking your class.

Similar studios



"What's True Now?"

Flatiron District

BodyShock

NoMad

classpass

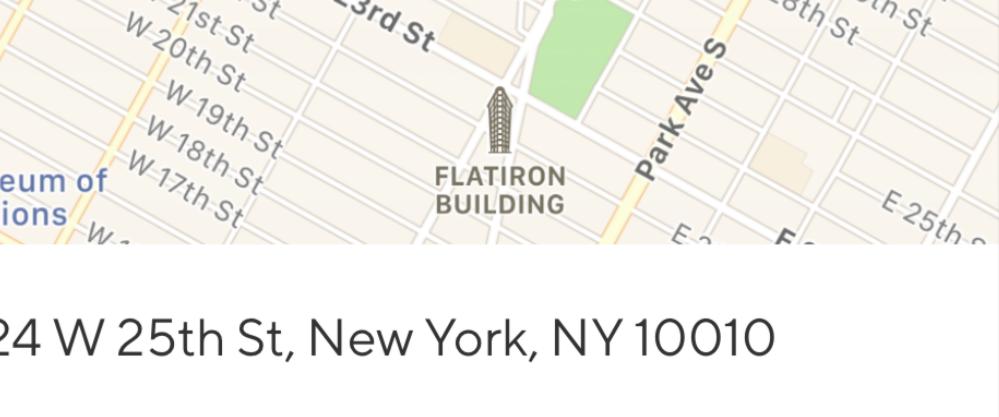
View schedule

Powered by
MINDBODY

Venue detail

- long, heterogenous content
- limited interactivity
- existing Objective-C implementation

classpass



How to get there

We currently have two locations in nyc -

28 E4th St. (NOHO)
24 W25th St. (NOMAD)

Please pay attention to the location when booking your class.

Similar studios



"What's True Now?"
Flatiron District



BodyShock
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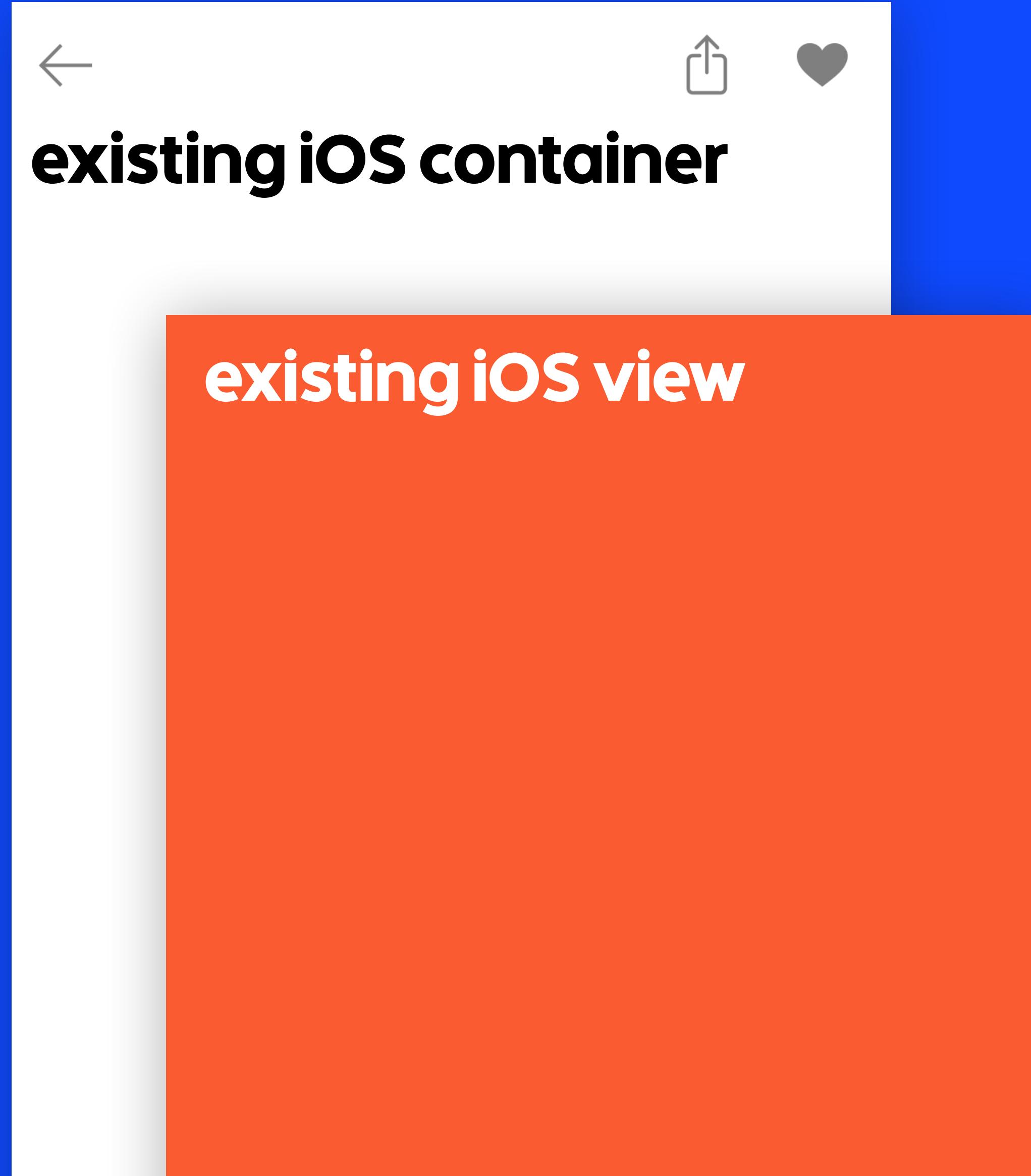
Powered by
MINDBODY

[View schedule](#)

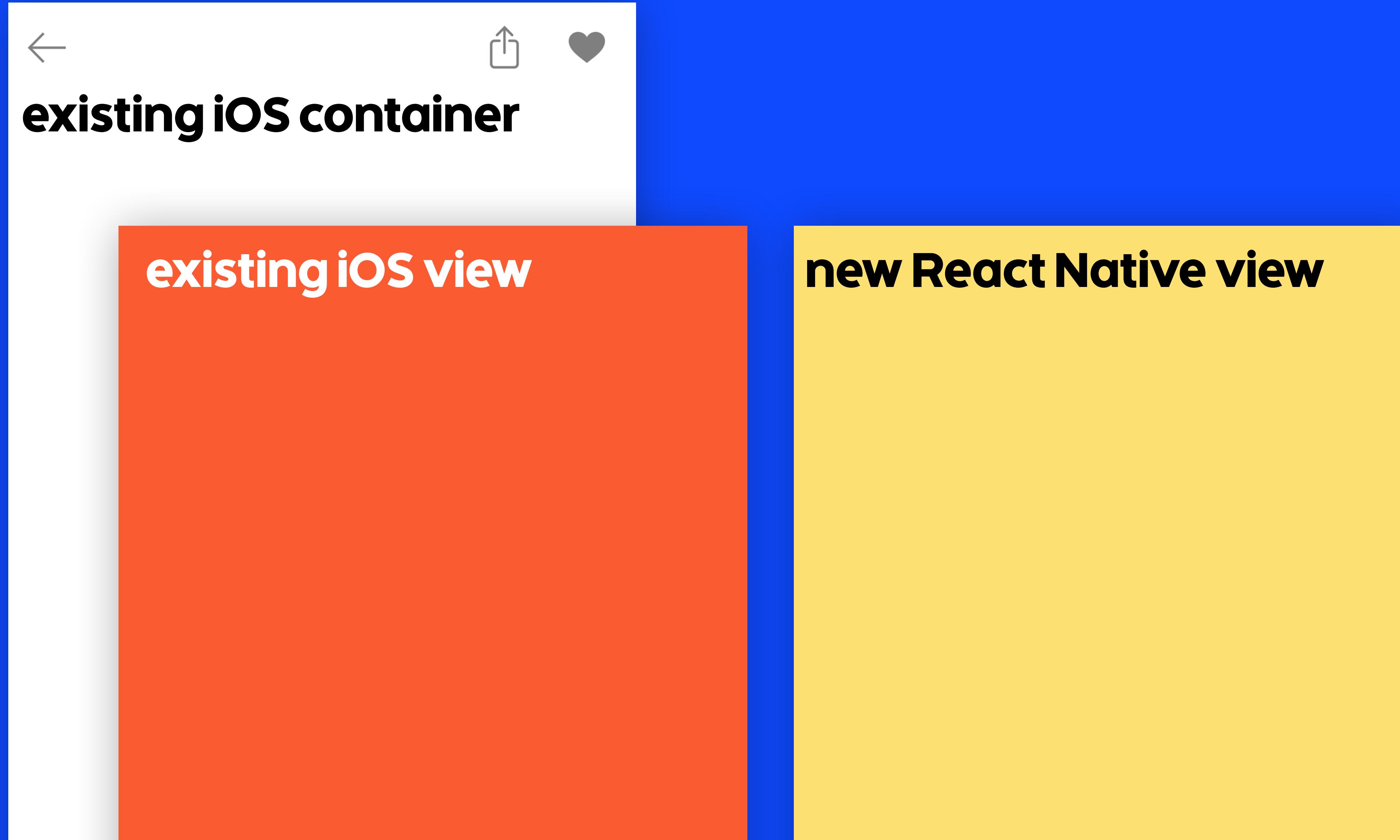
Venue detail



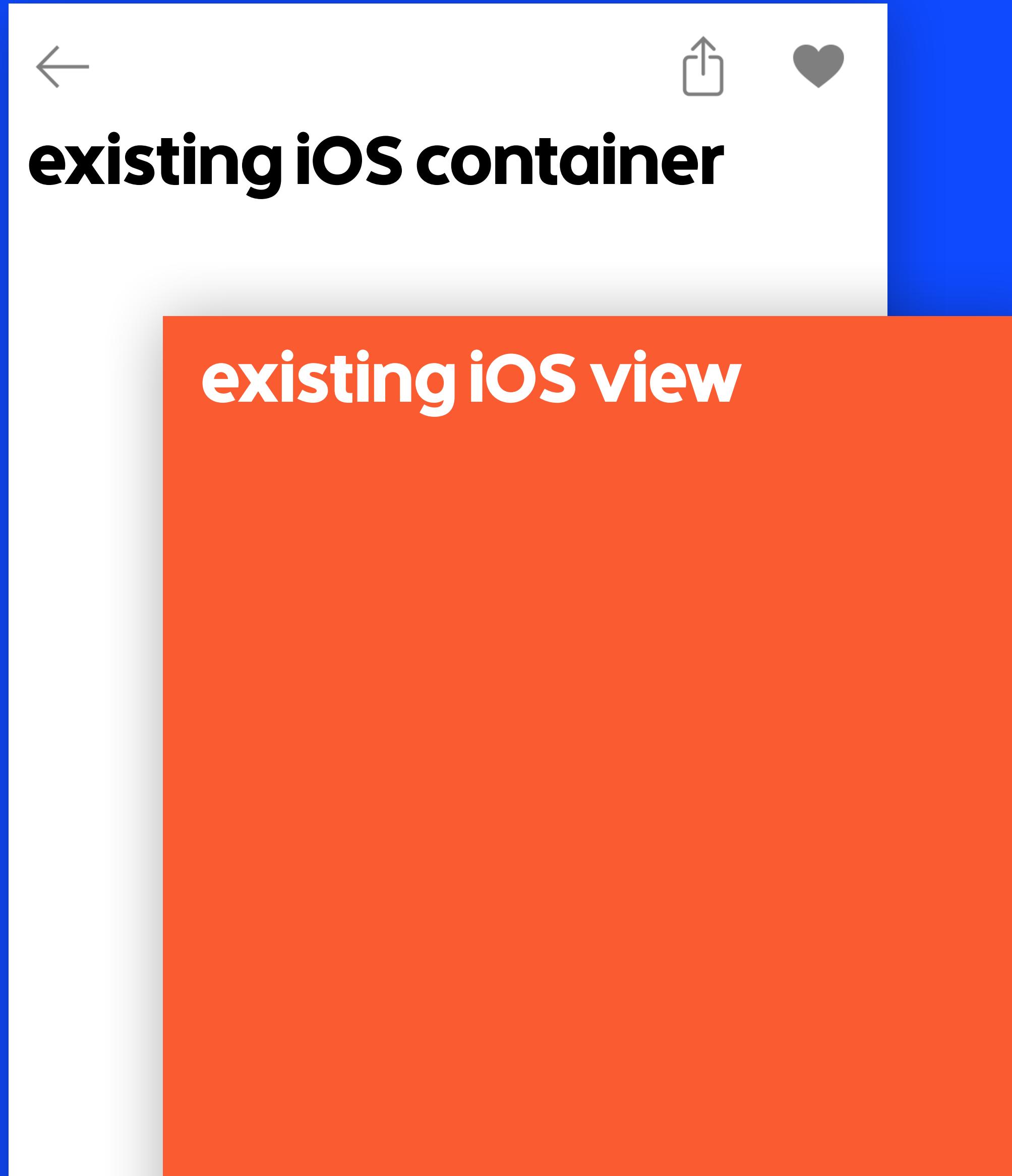
Venue detail



Venue detail



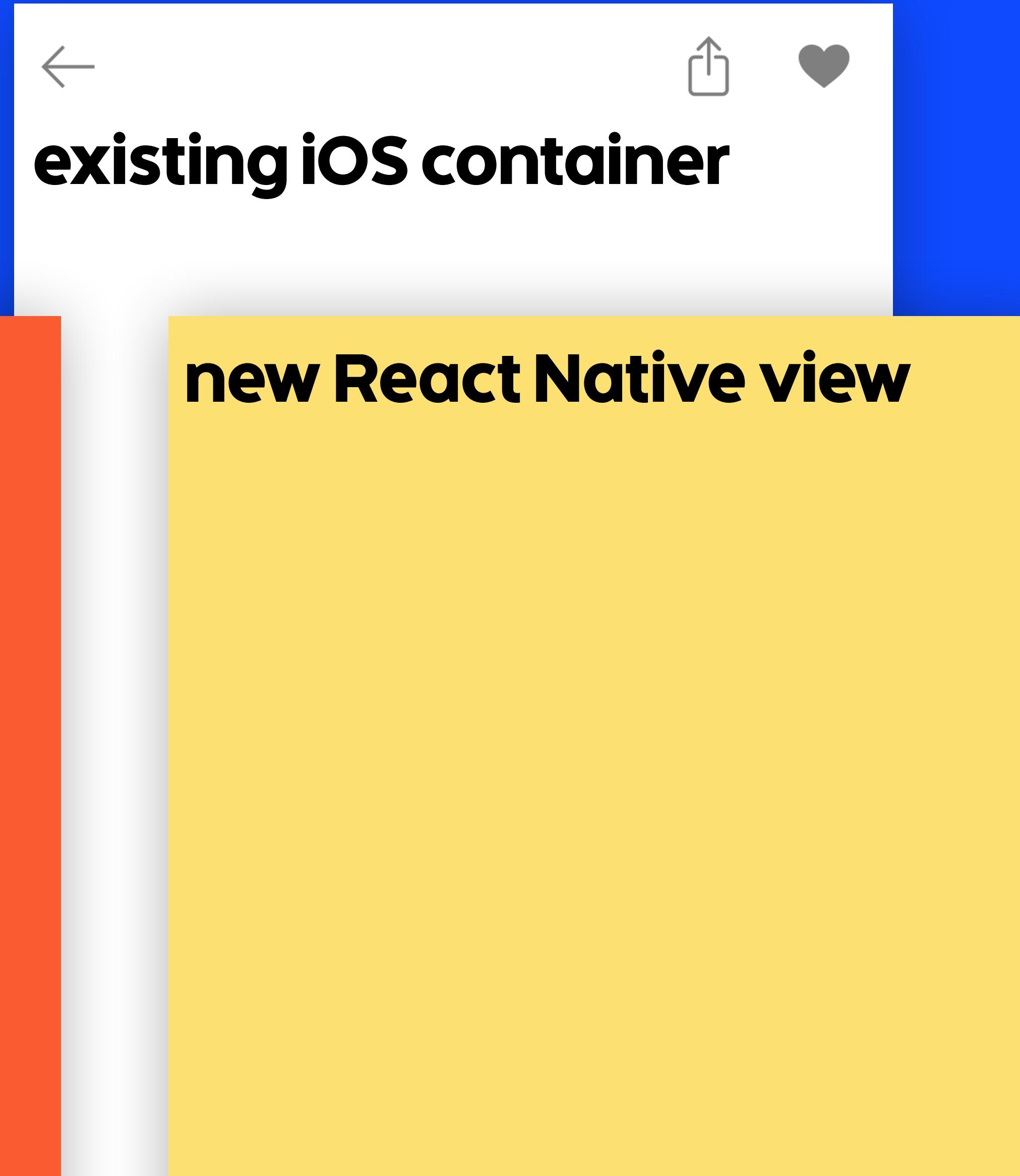
Venue detail



**switched using server
side feature flag**

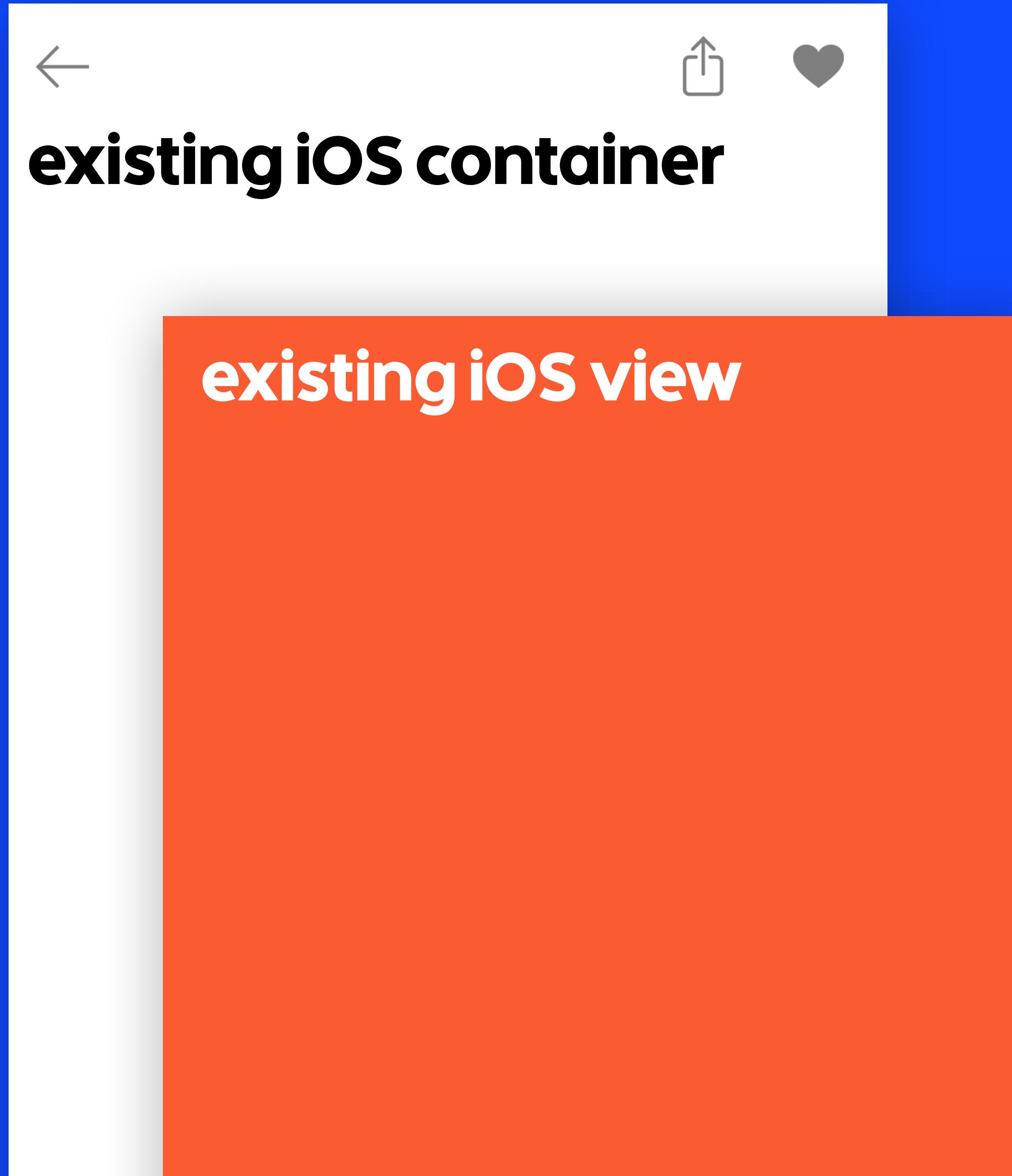
new React Native view

Venue detail



switched using server
side feature flag

Venue detail



switched using server
side feature flag

new React Native view

```
class VenueDetailViewController {  
  
    init(venue: Venue)  
  
    var view: UIView {  
        if featureFlags.reactNativeVenueDetail {  
            return reactNativeView  
        } else {  
            return legacyView  
        }  
    }  
}
```

Venue detail

← Upload Heart

Reviews

★★★★★ 4.9/5.0 from 500+ ratings

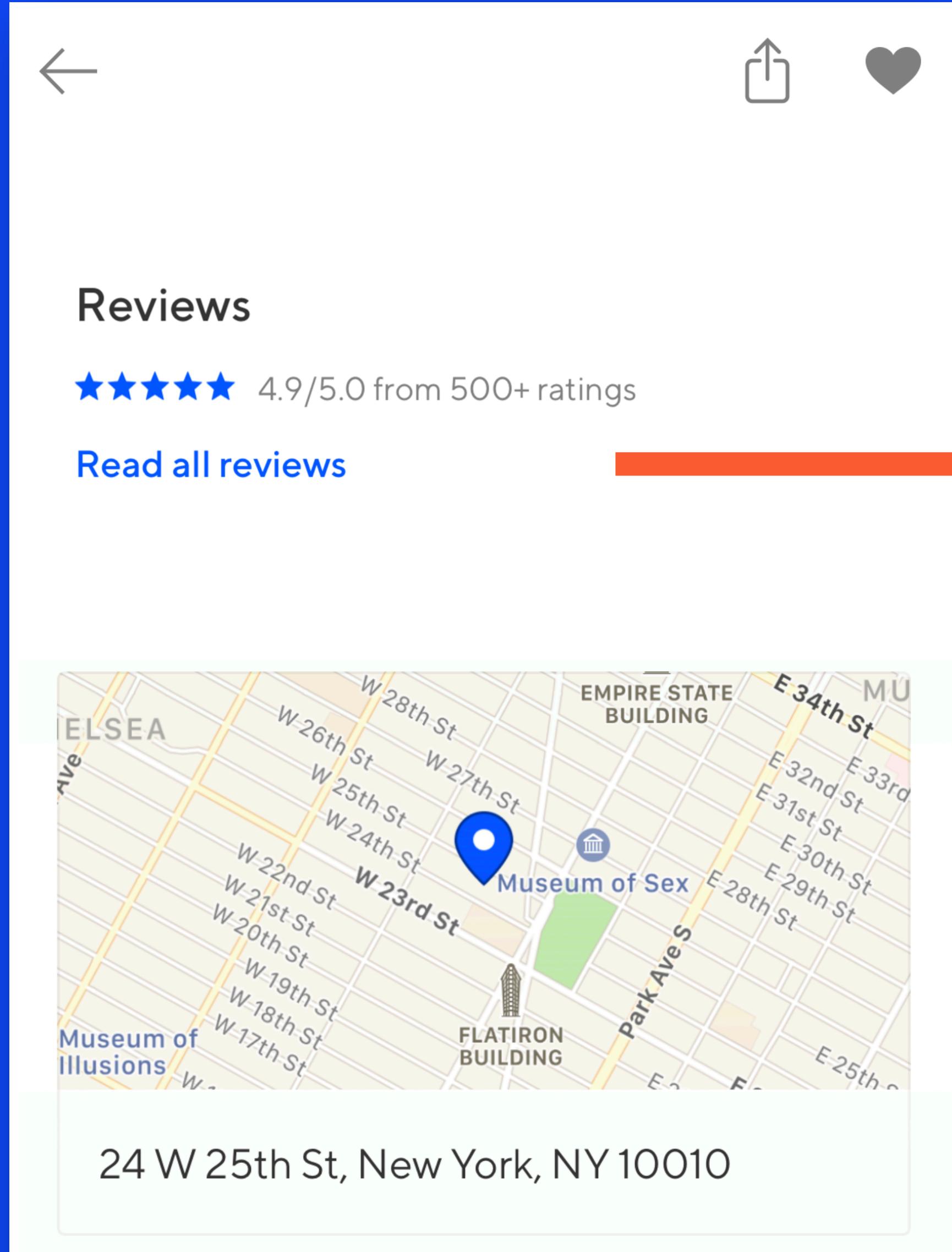
[Read all reviews](#)

24 W 25th St, New York, NY 10010



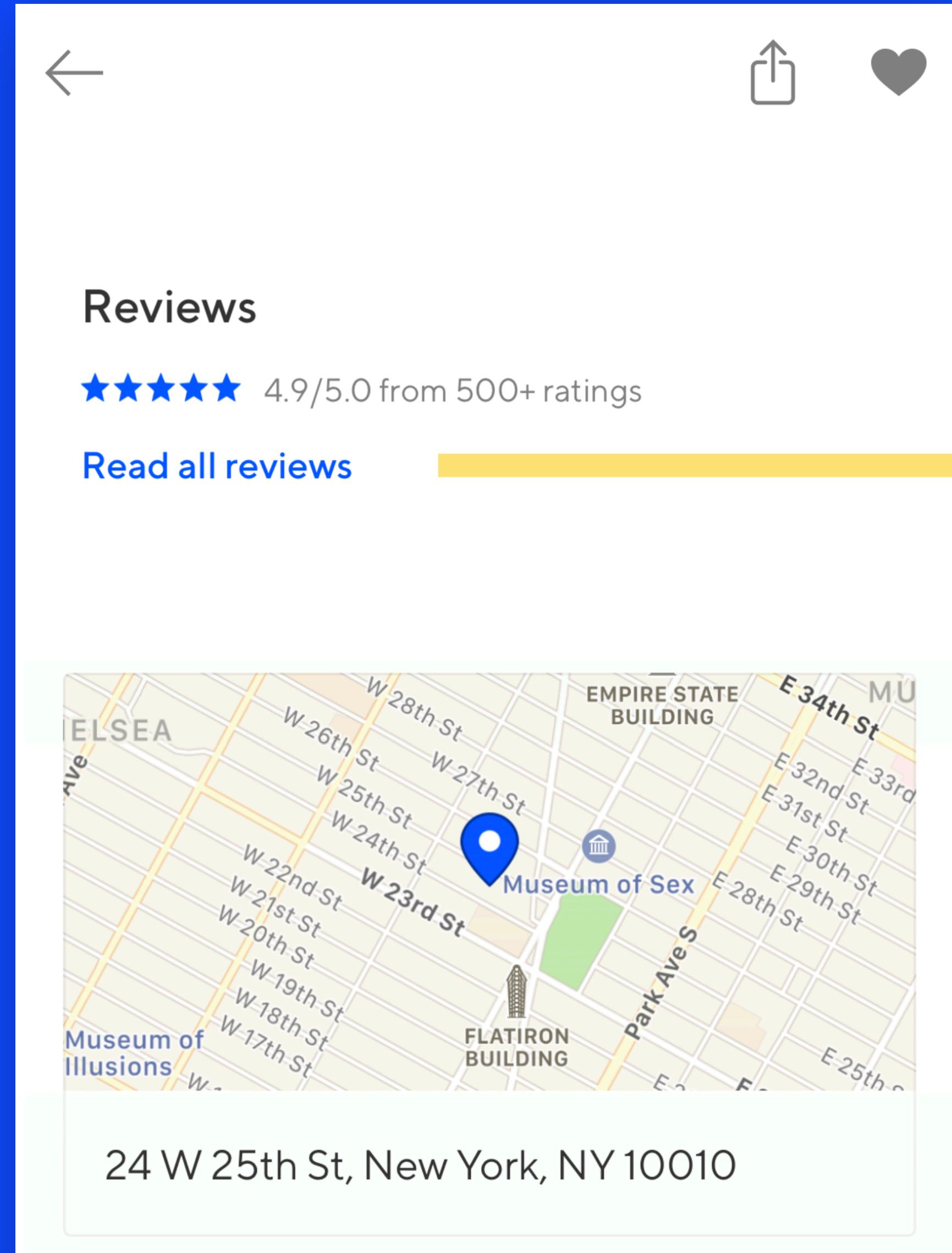
Venue detail

VenueDetailViewController



reviewsTapped

Venue detail



RNVenueBridgeModule

VenueDetailViewController

reviewsTapped

reviewsTapped

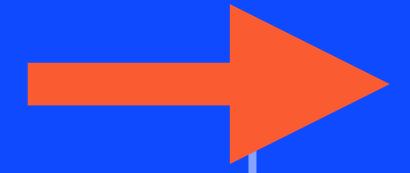
<VenueDetail />

RNVenueBridgeModule

VenueDetailViewController

onPressIn

reviewsTapped



reviewsTapped

<VenueDetail />

```
{  
  'fn': ...  
}
```

onPressIn

RNVenueBridgeModule

reviewsTapped



VenueDetailViewController

reviewsTapped

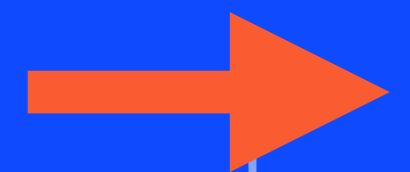
<VenueDetail />

```
{  
  'fn': ...  
}
```

RNVenueBridgeModule

onPressIn

reviewsTapped



reviewsTapped

VenueDetailViewController

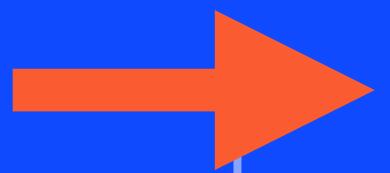
<VenueDetail />

RNVenueBridgeModule

VenueDetailViewController

```
{  
  'fn':...  
}
```

reviewsTapped



reviewsTapped

onPressIn

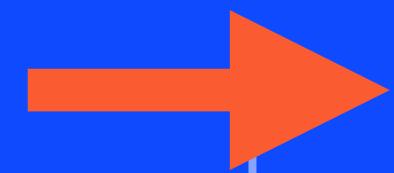
<VenueDetail />

RNVenueBridgeModule

VenueDetailViewController

onPressIn

reviewsTapped



reviewsTapped

Encapsulated and isolated

```
let vc = VenueDetailViewController(venue: ...)  
present(vc)
```

React Native at ClassPass

1

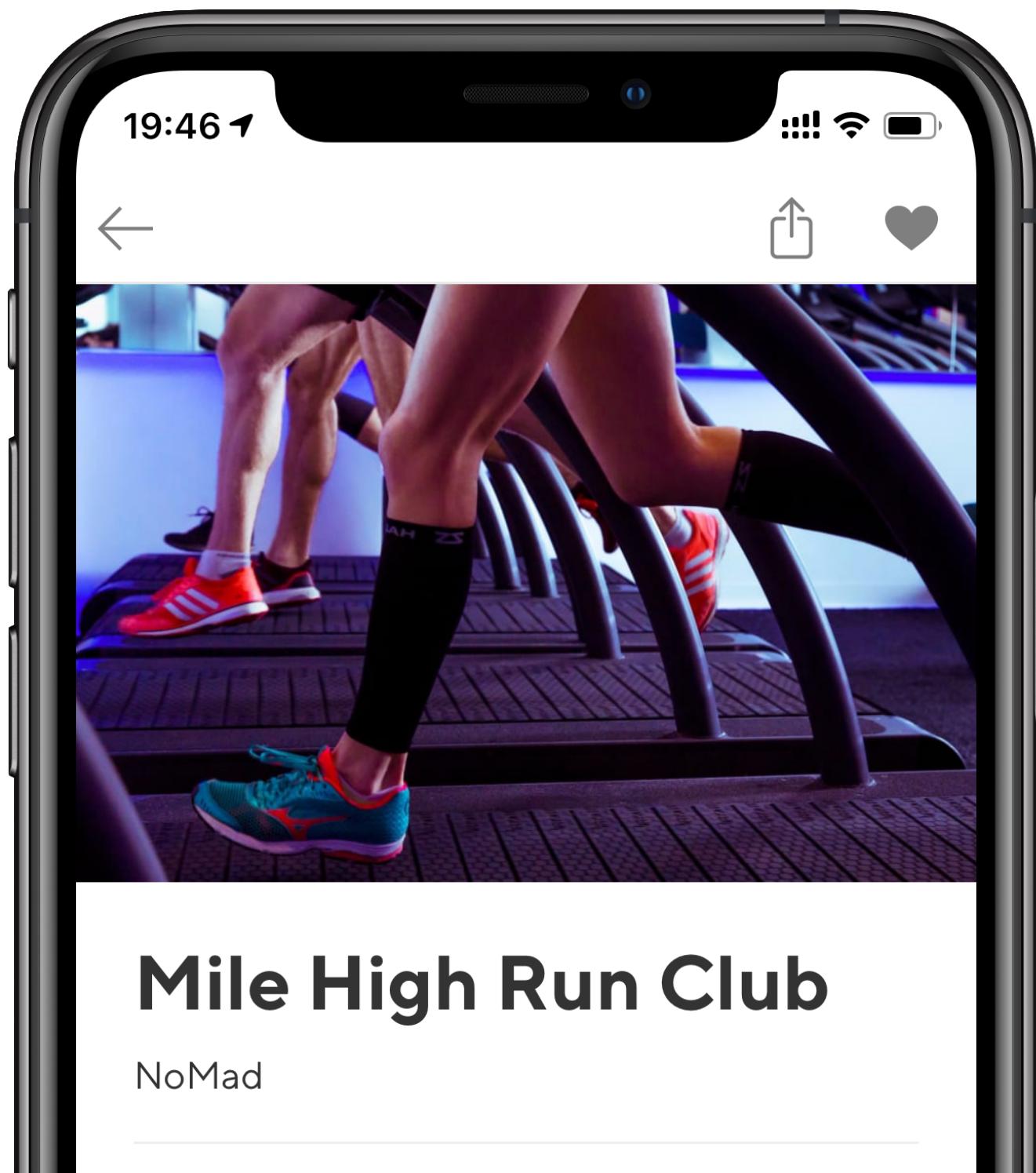
Venue detail

2

Sign up flow

3

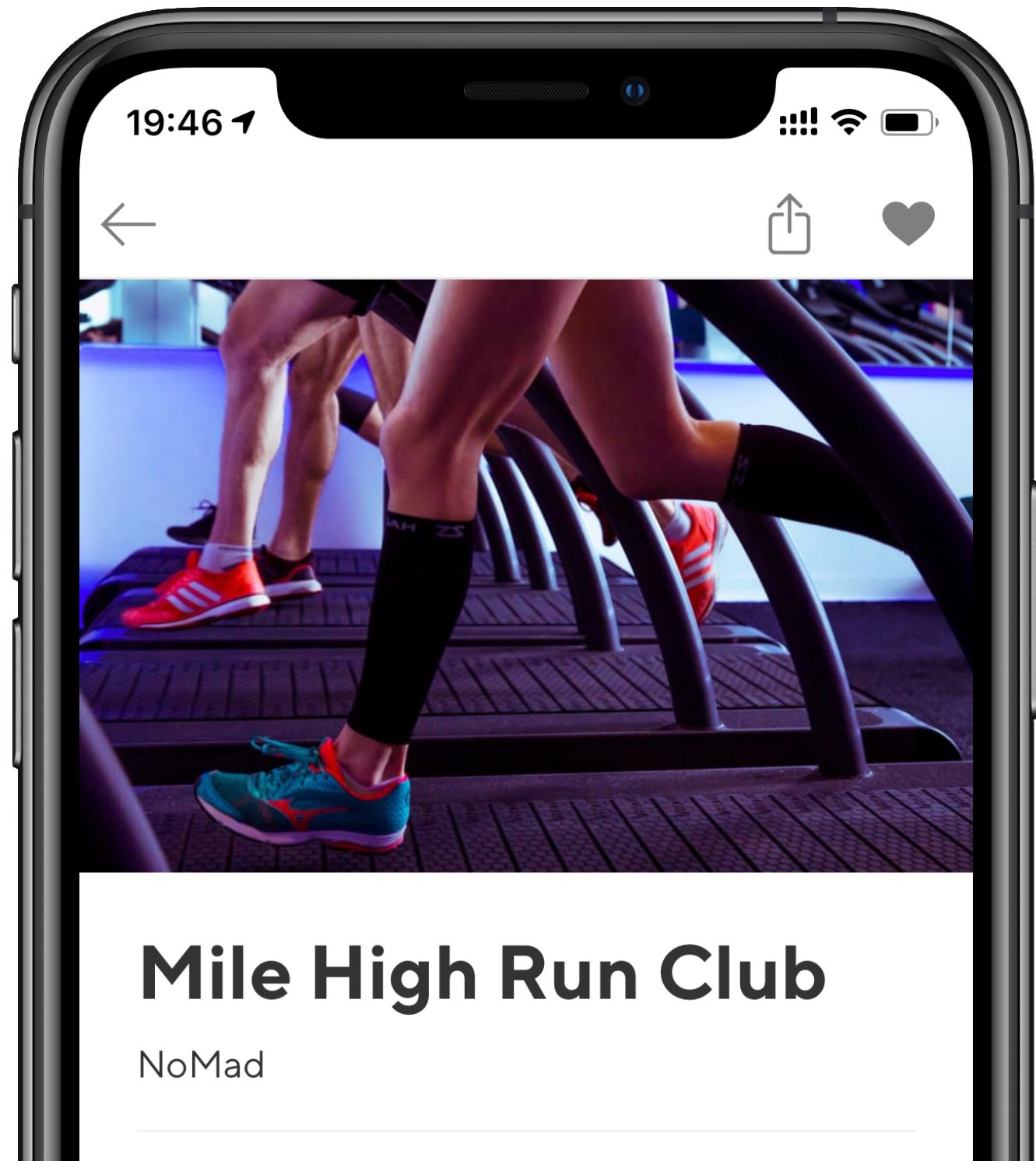
Schedule list



React Native at ClassPass

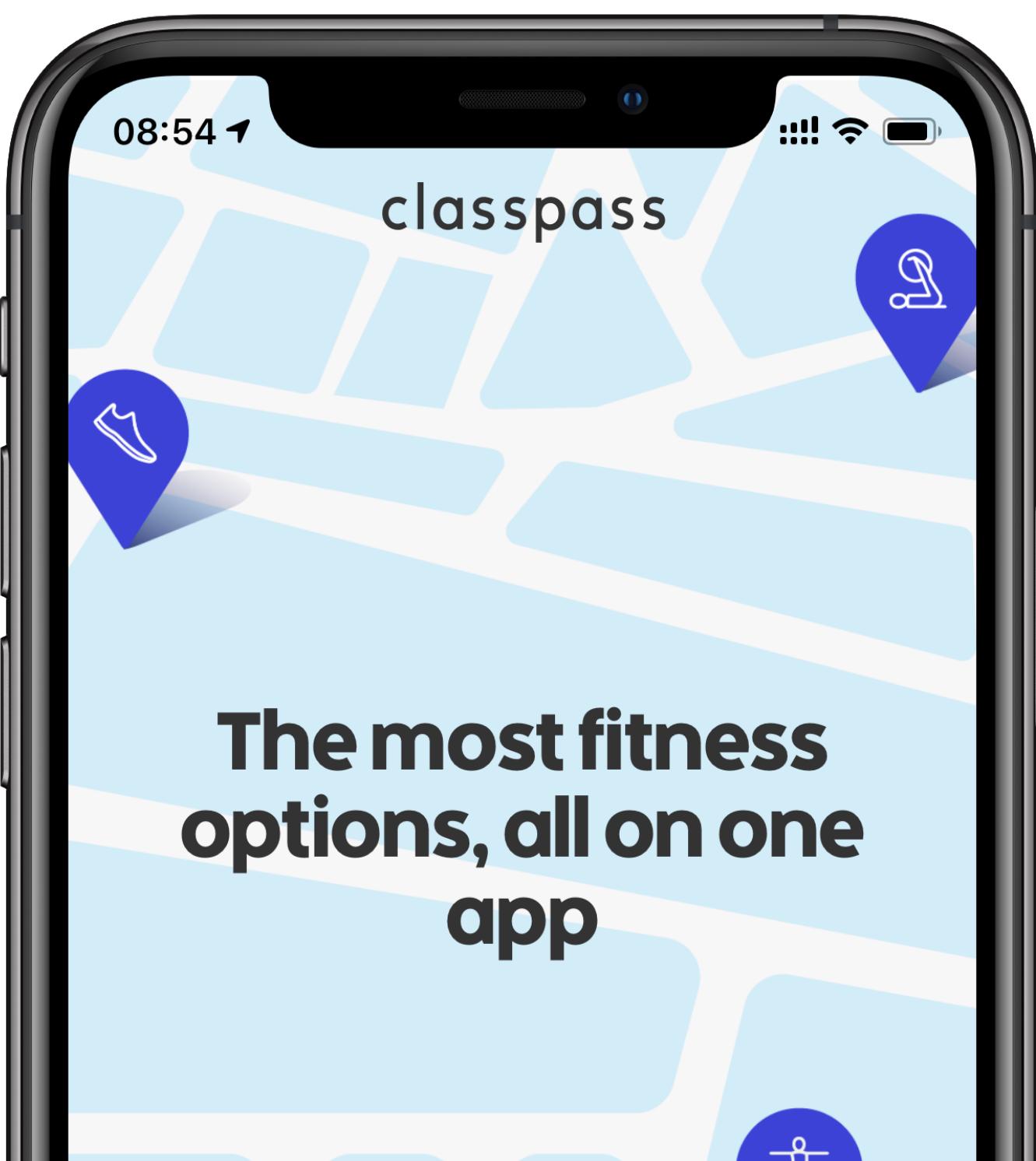
1

Venue detail



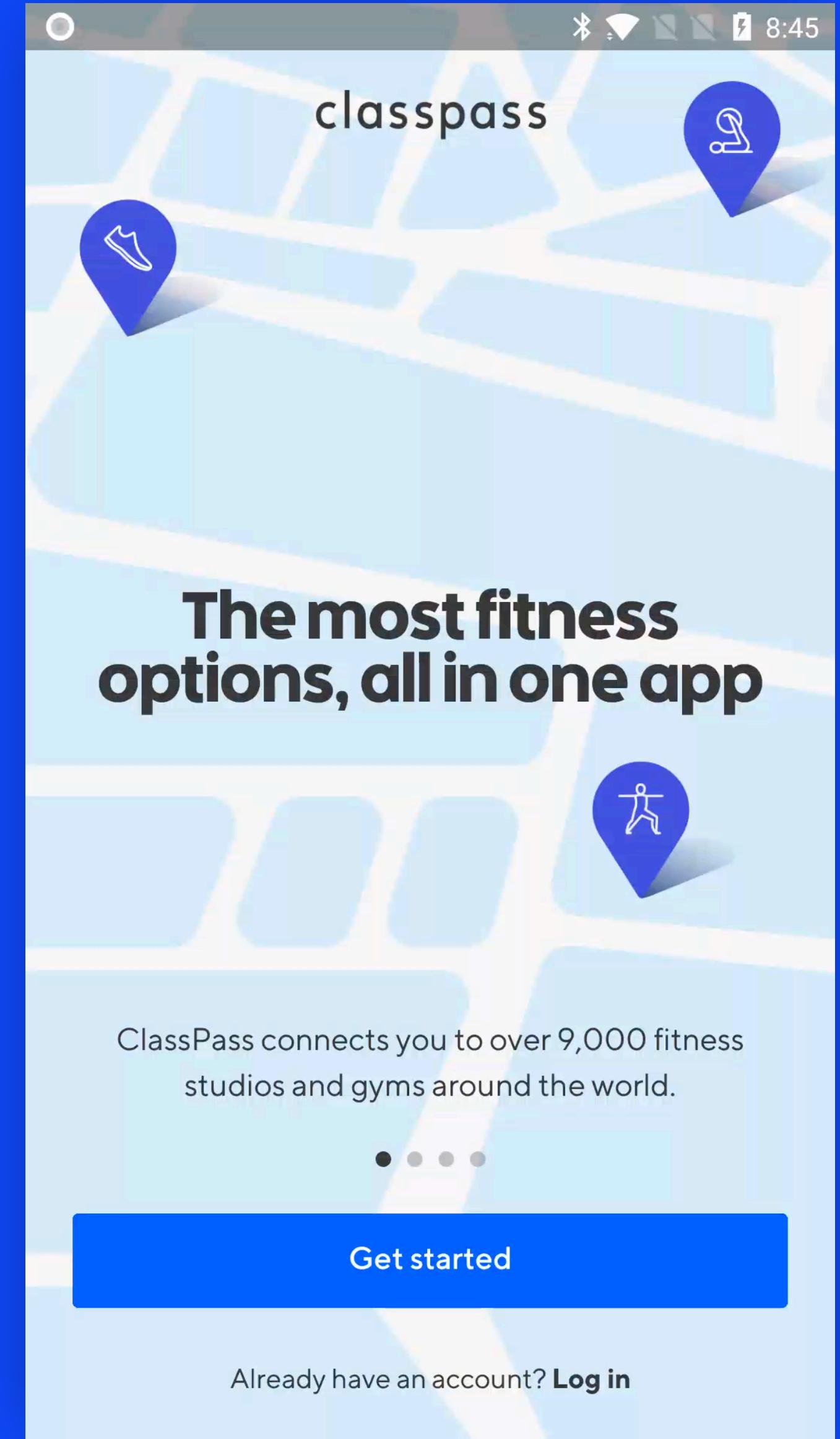
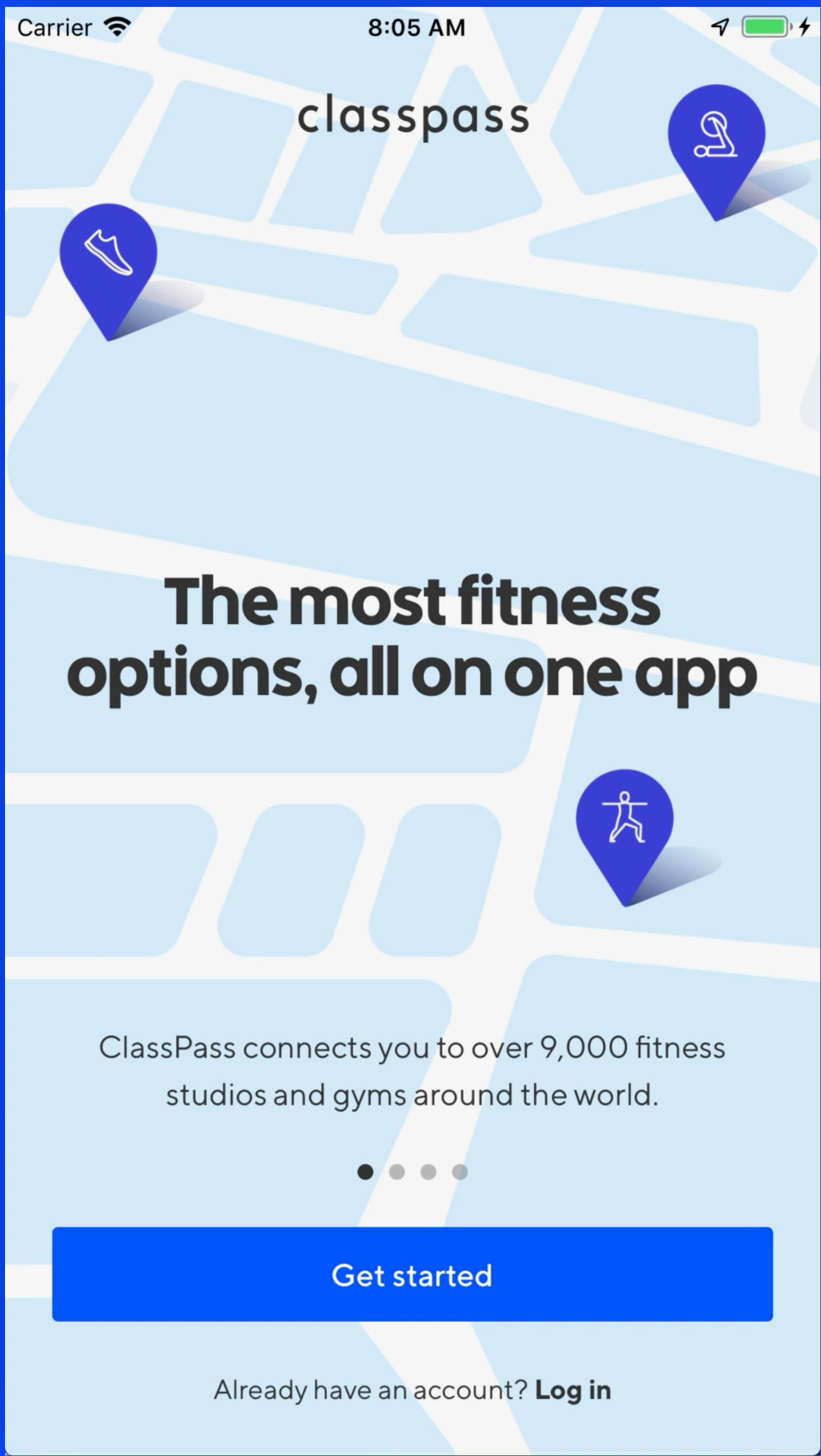
2

Sign up flow

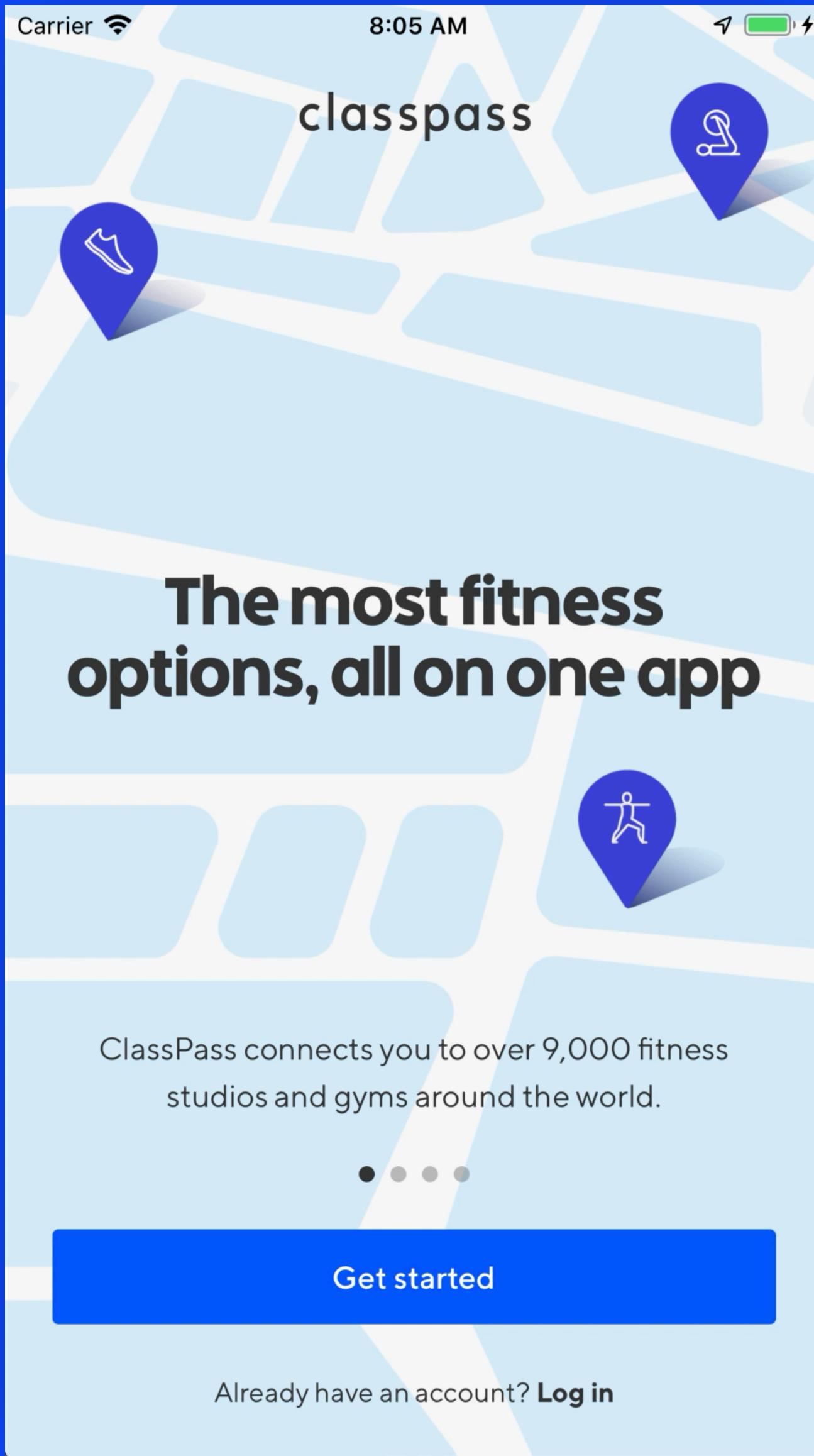


3

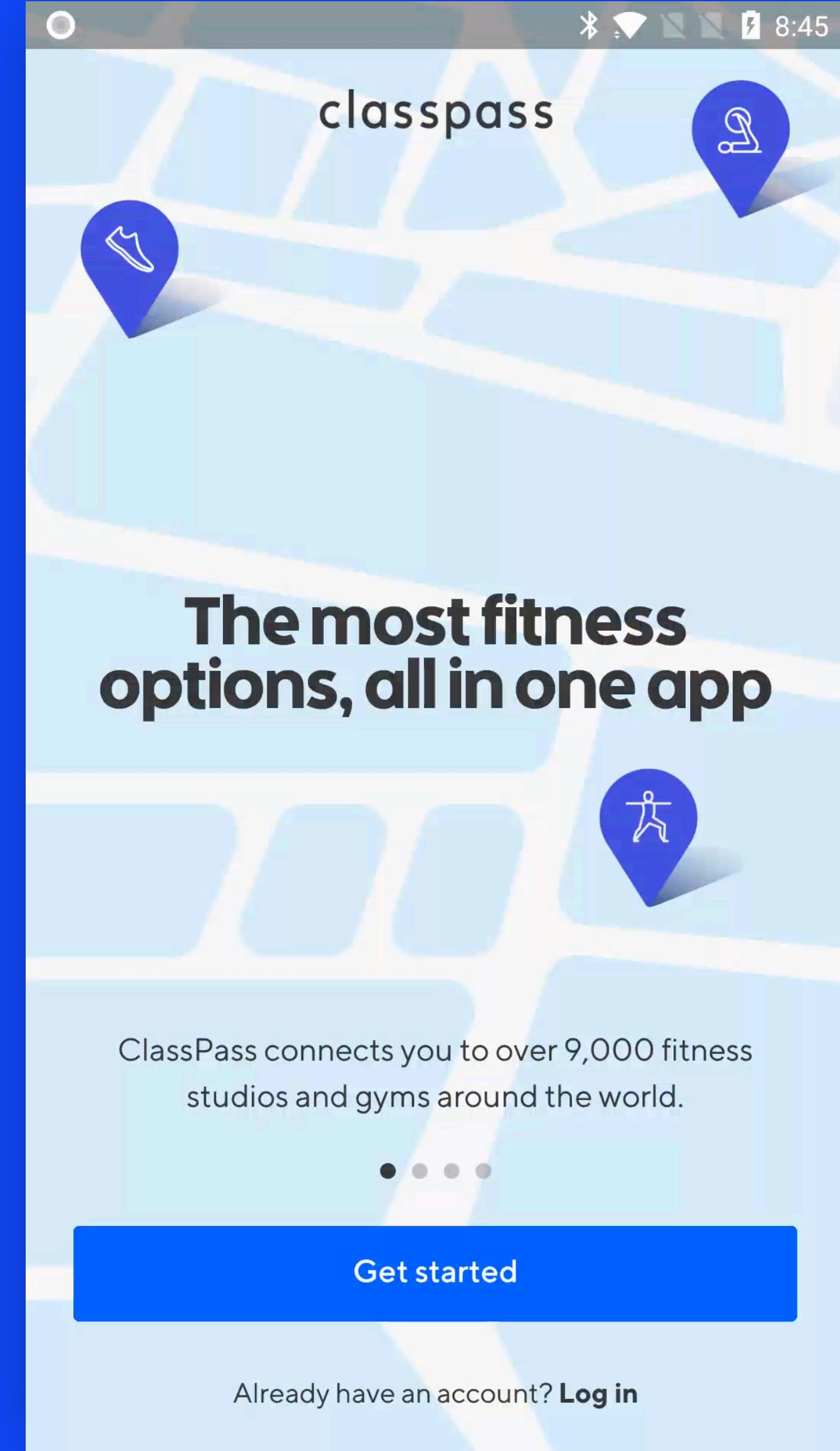
Schedule list



iOS



Android



Navigation in React Native



What's Happening with Navigation in React Native?

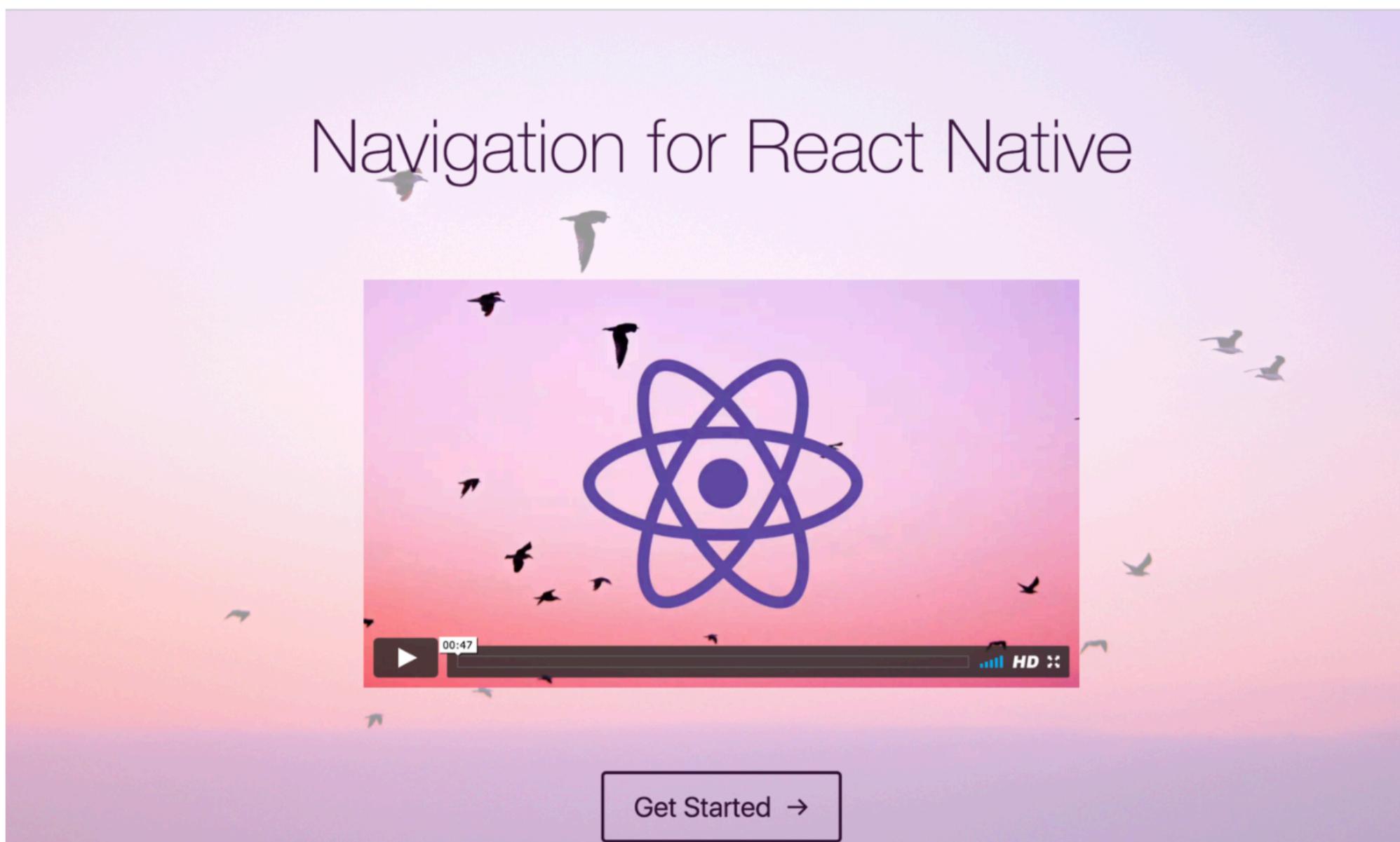


Pav Sidhu

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Feb 19, 2017 · 3 min read

React Navigation

[DOCS](#) [BLOG](#) [GITHUB](#)

There's something nice about the background image...

<https://medium.com/@pavsidhu/whats-happening-with-navigation-in-react-native-c193535888c3>

JavaScript Navigation

JavaScript Navigation



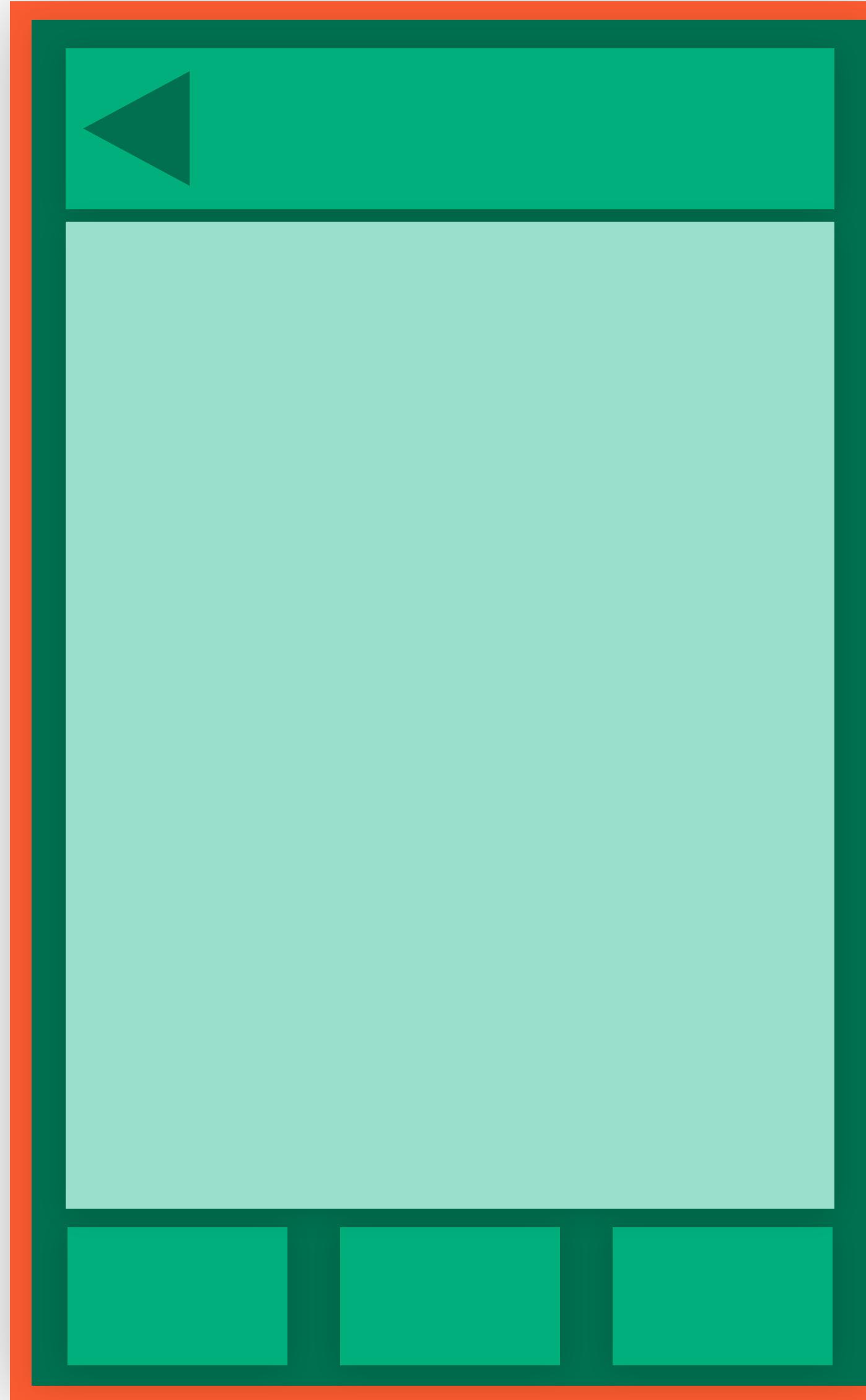
JavaScript Navigation



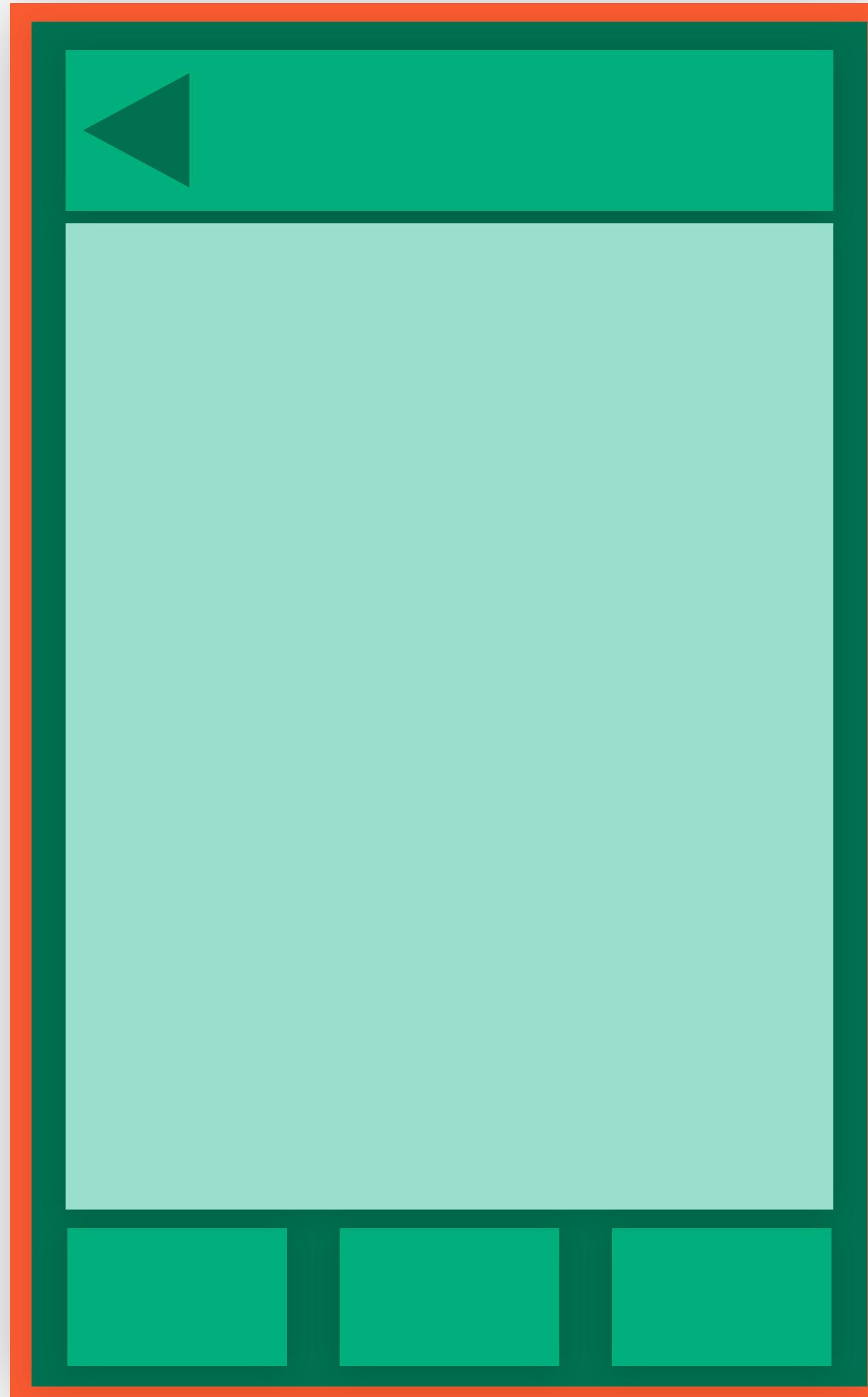
JavaScript Navigation



JavaScript Navigation

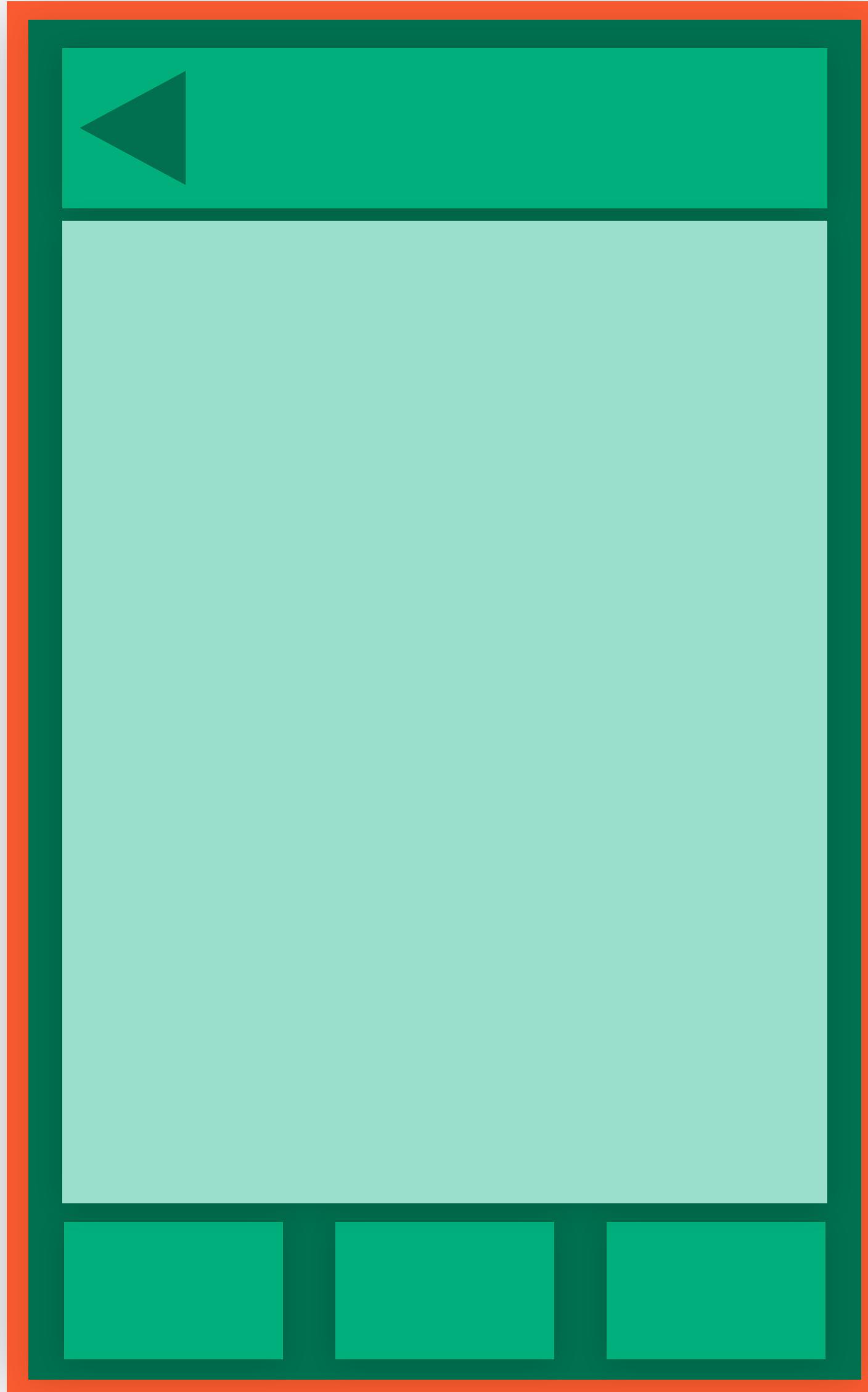


JavaScript Navigation



**thin native shell
navigation in JS**

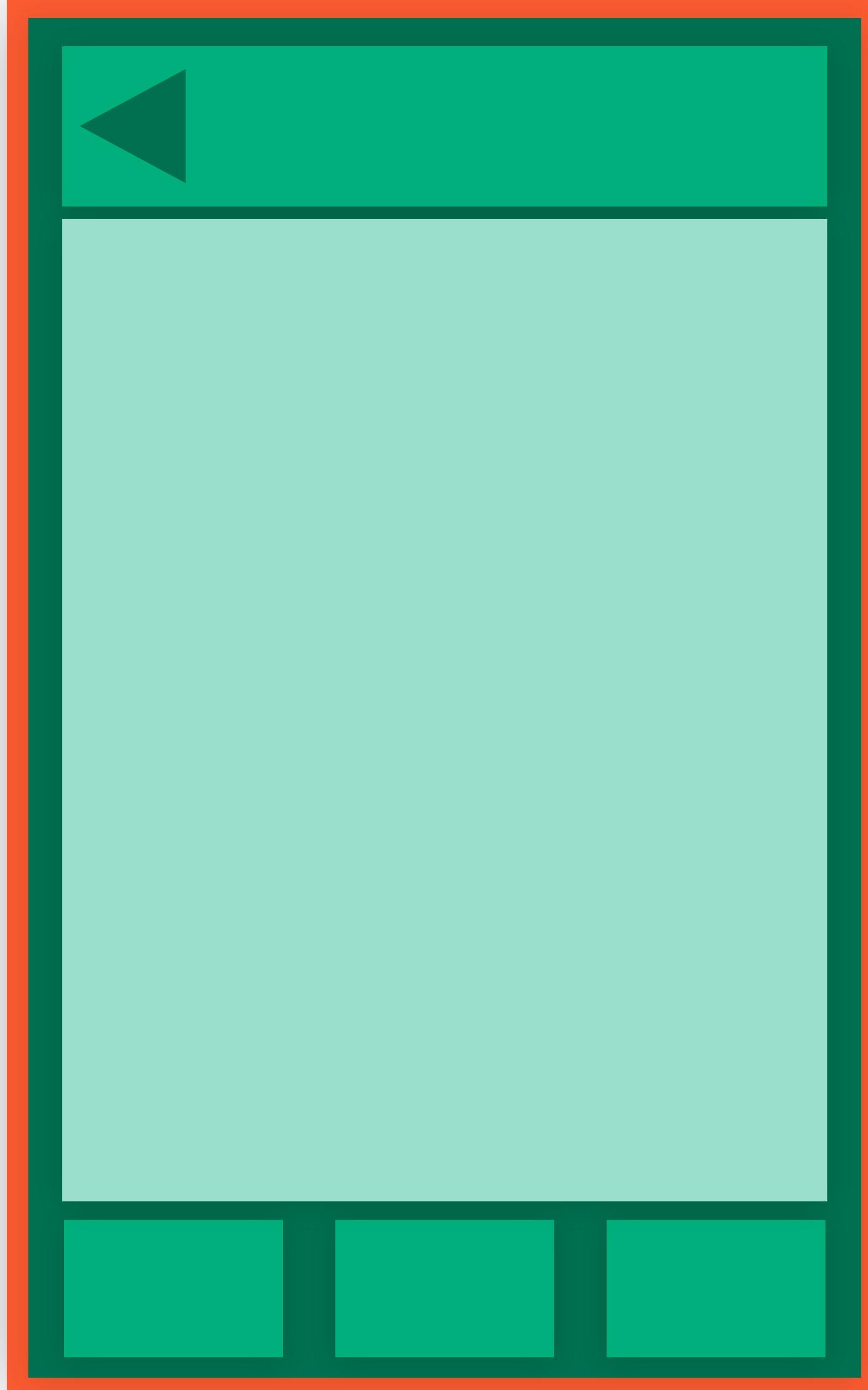
JavaScript Navigation



Native Navigation

**thin native shell
navigation in JS**

JavaScript Navigation

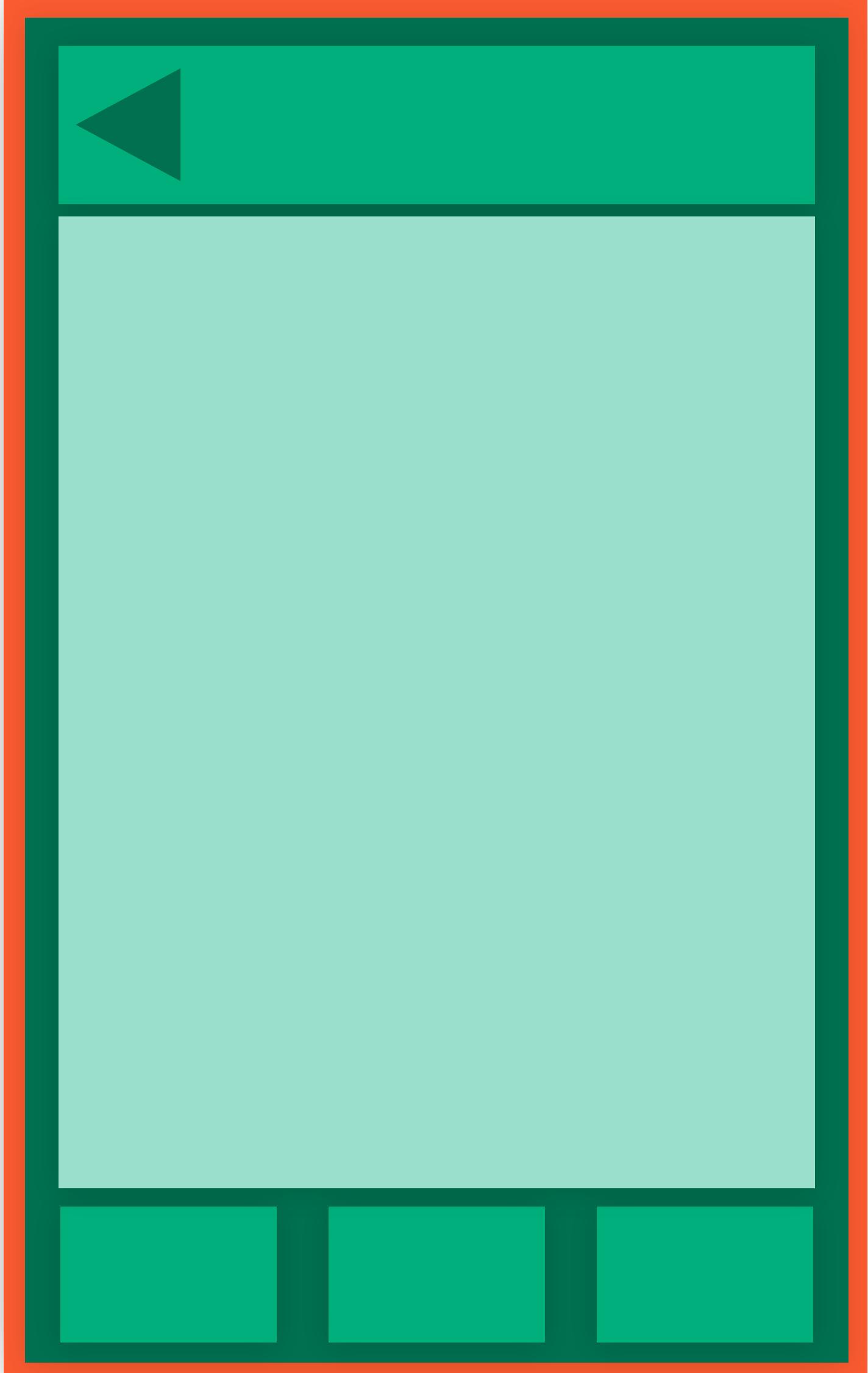


**thin native shell
navigation in JS**

Native Navigation

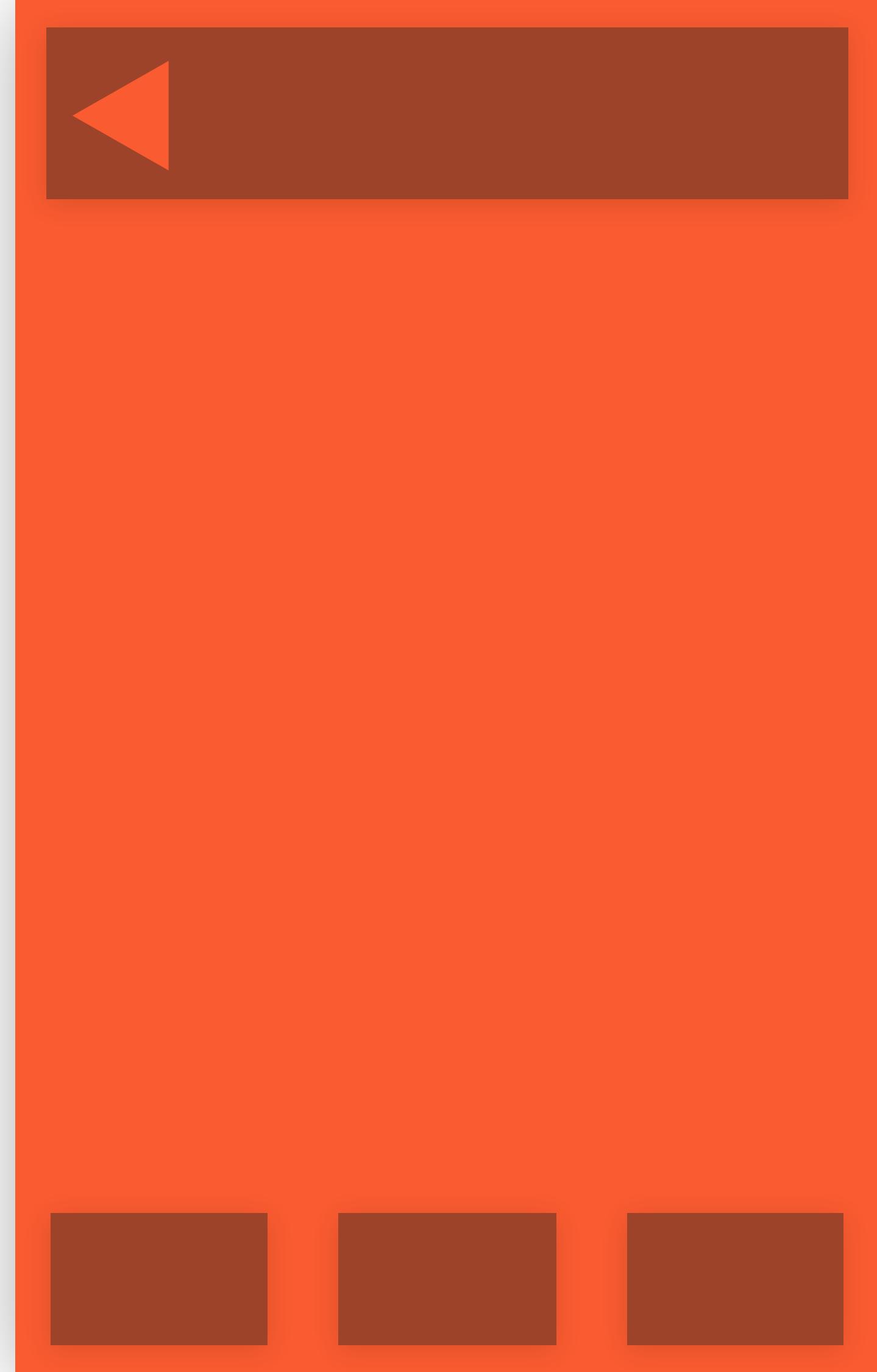


JavaScript Navigation

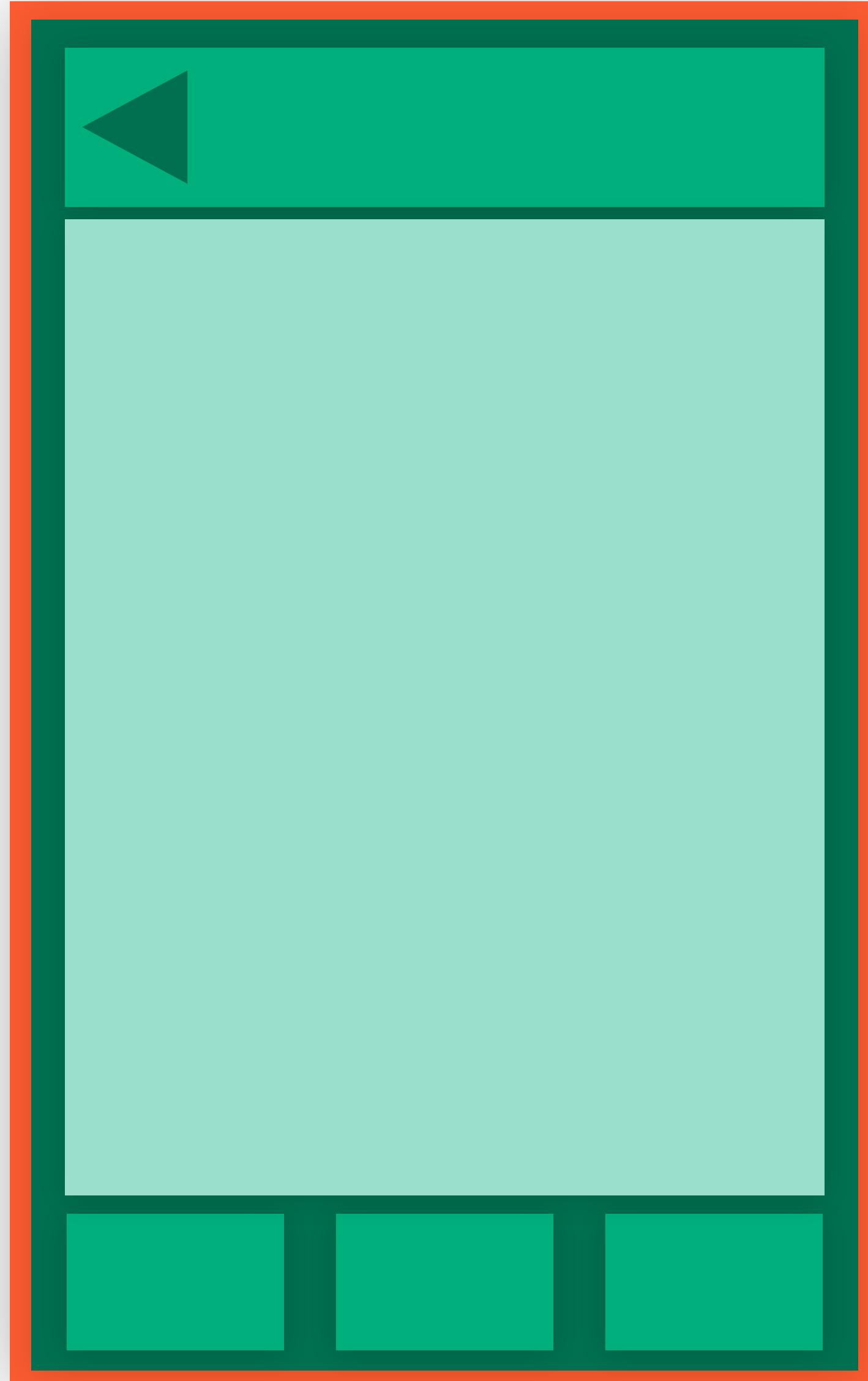


thin native shell
navigation in JS

Native Navigation

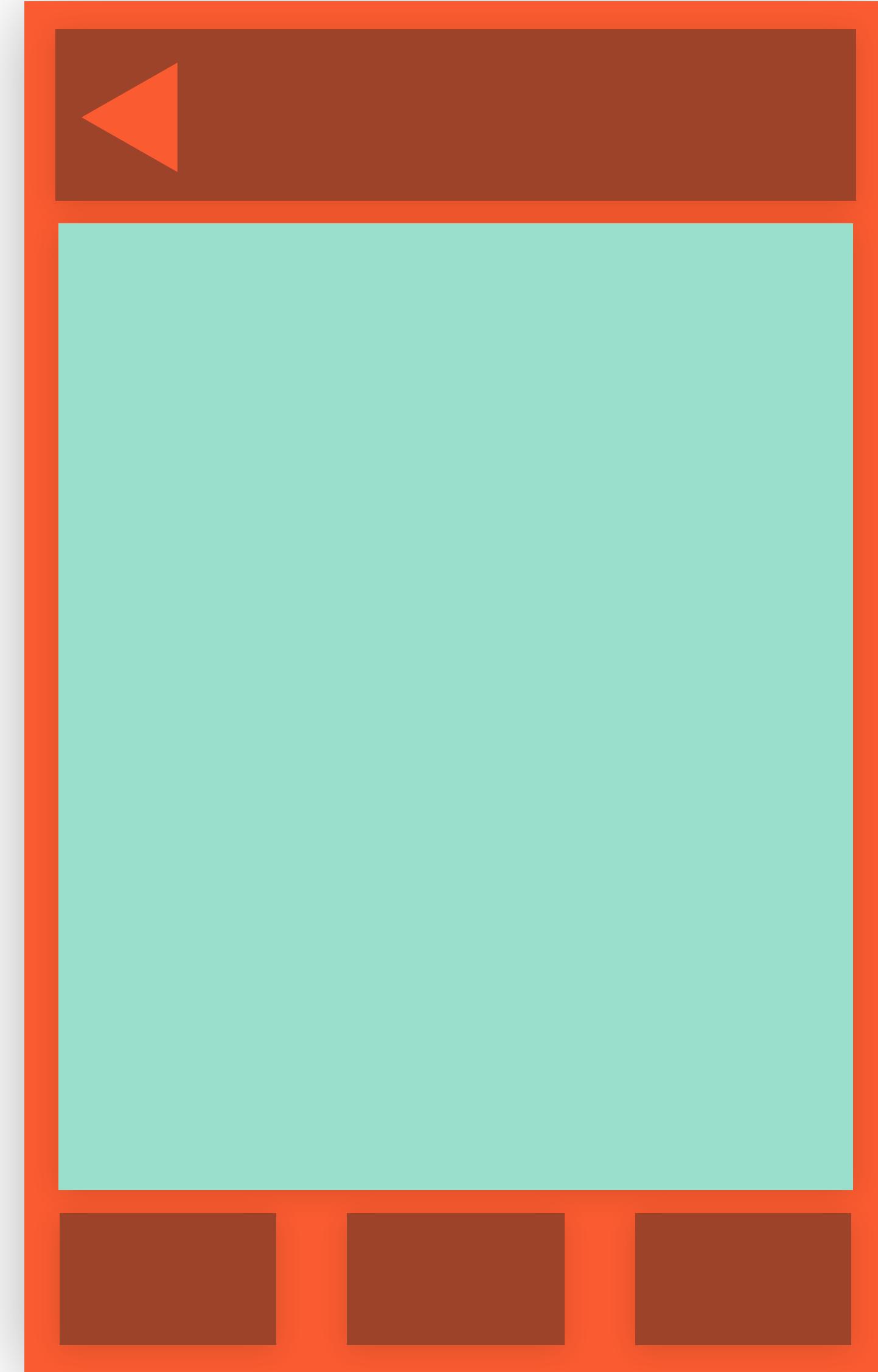


JavaScript Navigation

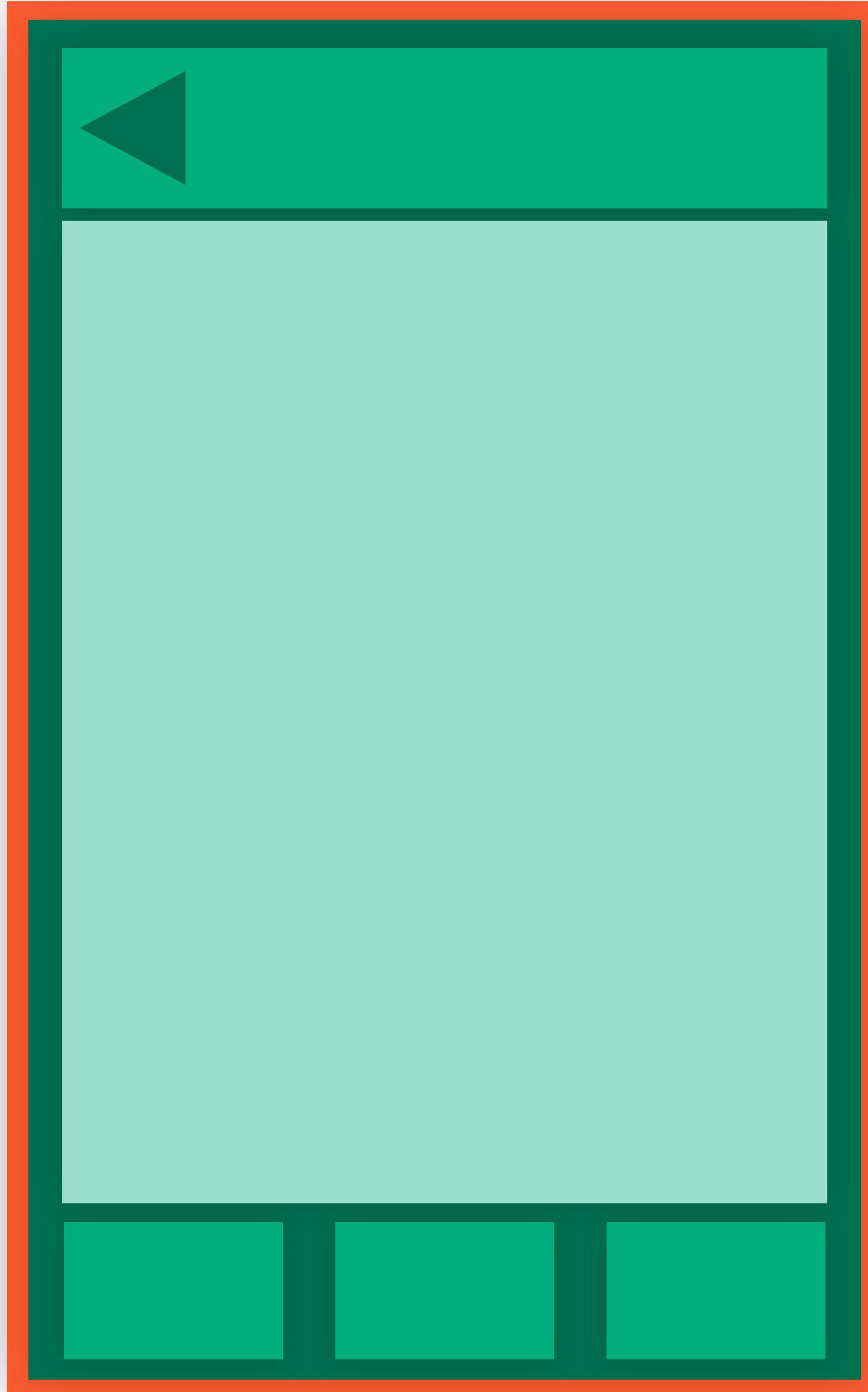


thin native shell
navigation in JS

Native Navigation

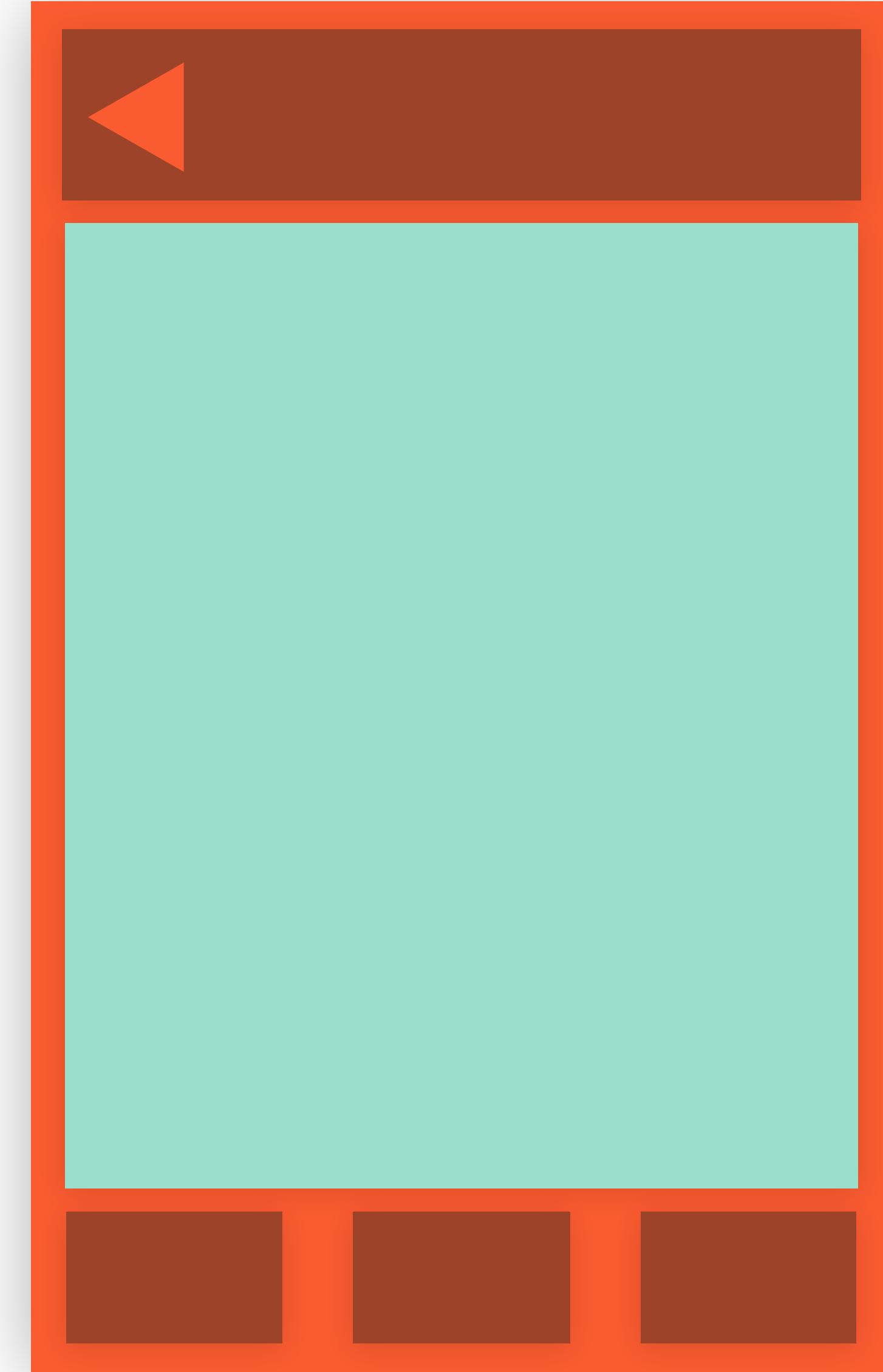


JavaScript Navigation



thin native shell
navigation in JS

Native Navigation



thick native shell
only **content** in JS

JavaScript Navigation

JavaScript Navigation

React Navigation

<https://reactnavigation.org/>

JavaScript Navigation

React Navigation

<https://reactnavigation.org/>

- reimplements iOS/Android behavior in pure JavaScript
- 3rd party library but officially recommended by RN team

Native Navigation

Native Navigation

Wix React Native Navigation

<https://github.com/wix/react-native-navigation>

Native Navigation

Wix React Native Navigation

<https://github.com/wix/react-native-navigation>

Airbnb Native Navigation (Beta)

<https://github.com/airbnb/native-navigation>

ClassPass Native Navigation

Carrier

8:05 AM



Find your city

Our studios and classes vary by city. What neighborhood will you be working out in?

Use my current location

or

Address or city

Next

ClassPass Native Navigation

Carrier

8:05 AM



Find your city

Our studios and classes vary by city. What neighborhood will you be working out in?

Use my current location

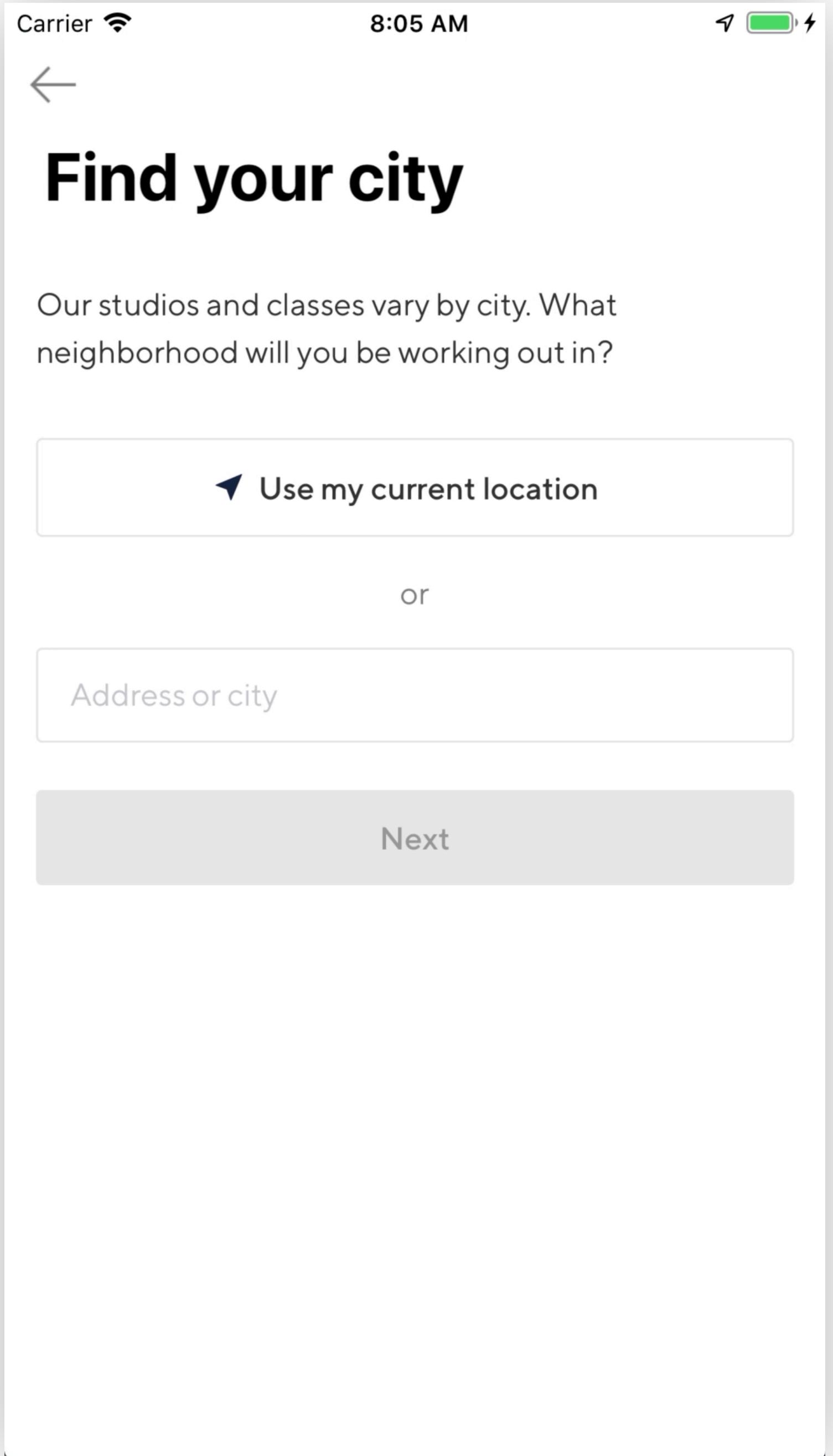
or

Address or city

Next

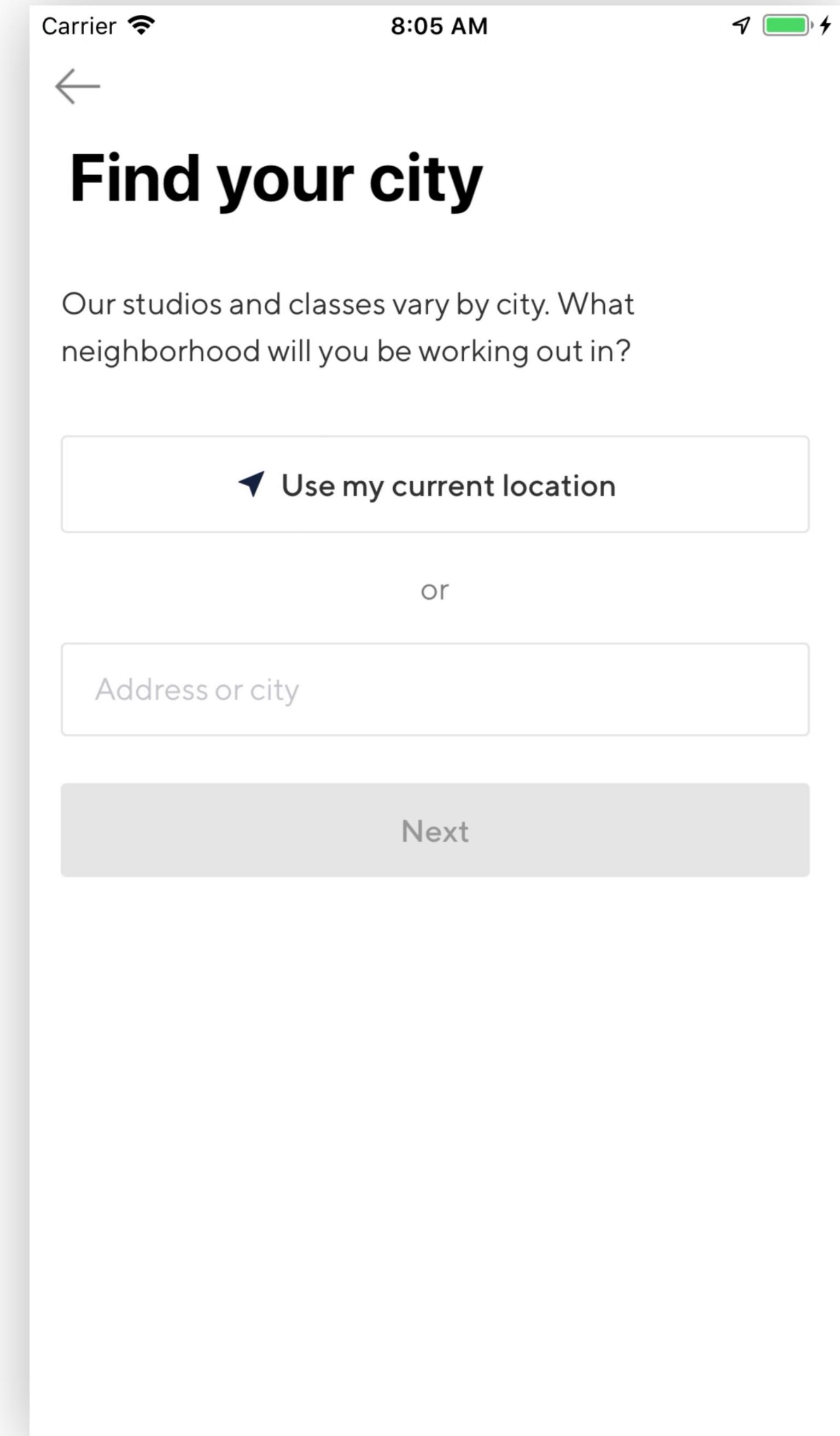
ClassPass Native Navigation

```
enum ReactRoute: String {  
    case findCity  
    case signUp  
}  
  
class ReactViewController {  
    init(route: Route, props: [String: Any])  
}
```



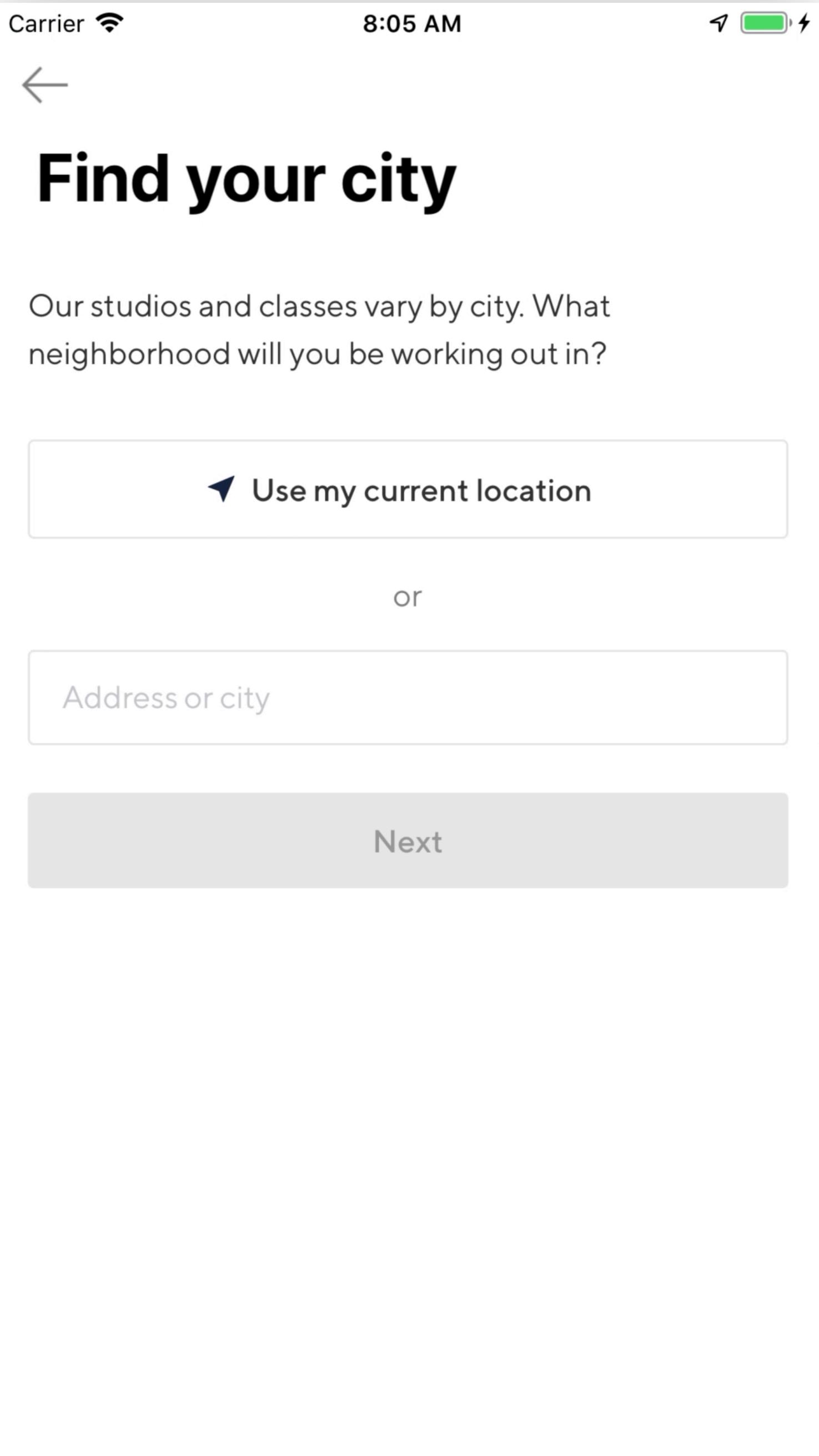
ClassPass Native Navigation

```
enum ReactRoute: String {  
    case findCity  
    case signUp  
}  
  
class ReactViewController {  
    init(route: Route, props: [String: Any])  
}  
  
class FindCityViewController: ReactViewController {  
    init() { return super.init(route: .findCity) }  
}  
  
class SignUpViewController: ReactViewController {  
    init(city: City) {  
        return super.init(route: .signUp, props: [  
            "city_id": city.id,  
        ]  
    }  
}
```



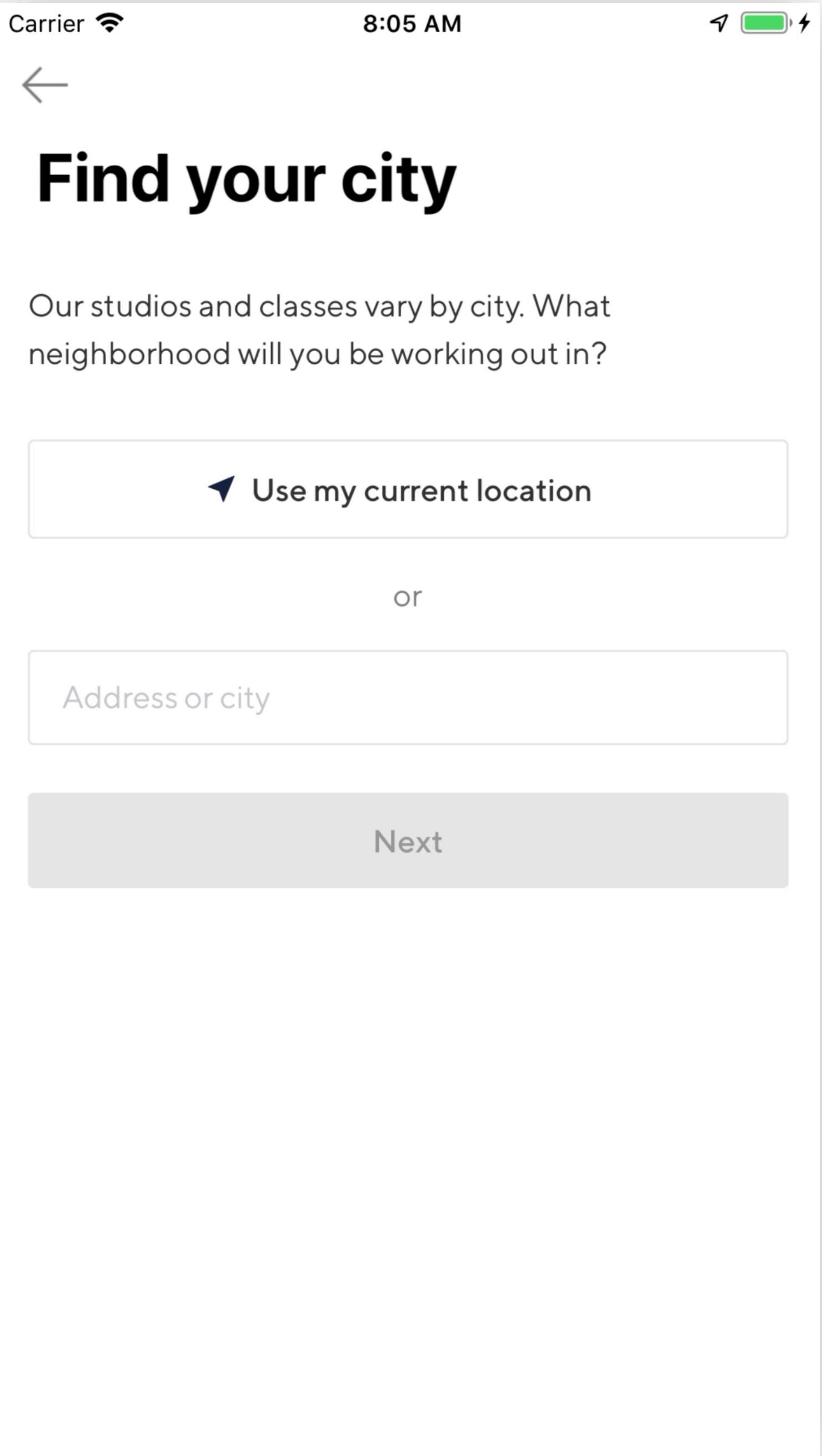
ClassPass Native Navigation

```
render() {  
  
  const routes = {  
    'findCity': FindCity,  
    'signUp': SignUp,  
  }  
  
  const Component = routes[props.route]  
  
  return (  
    <Component {...props} />  
  )  
}
```

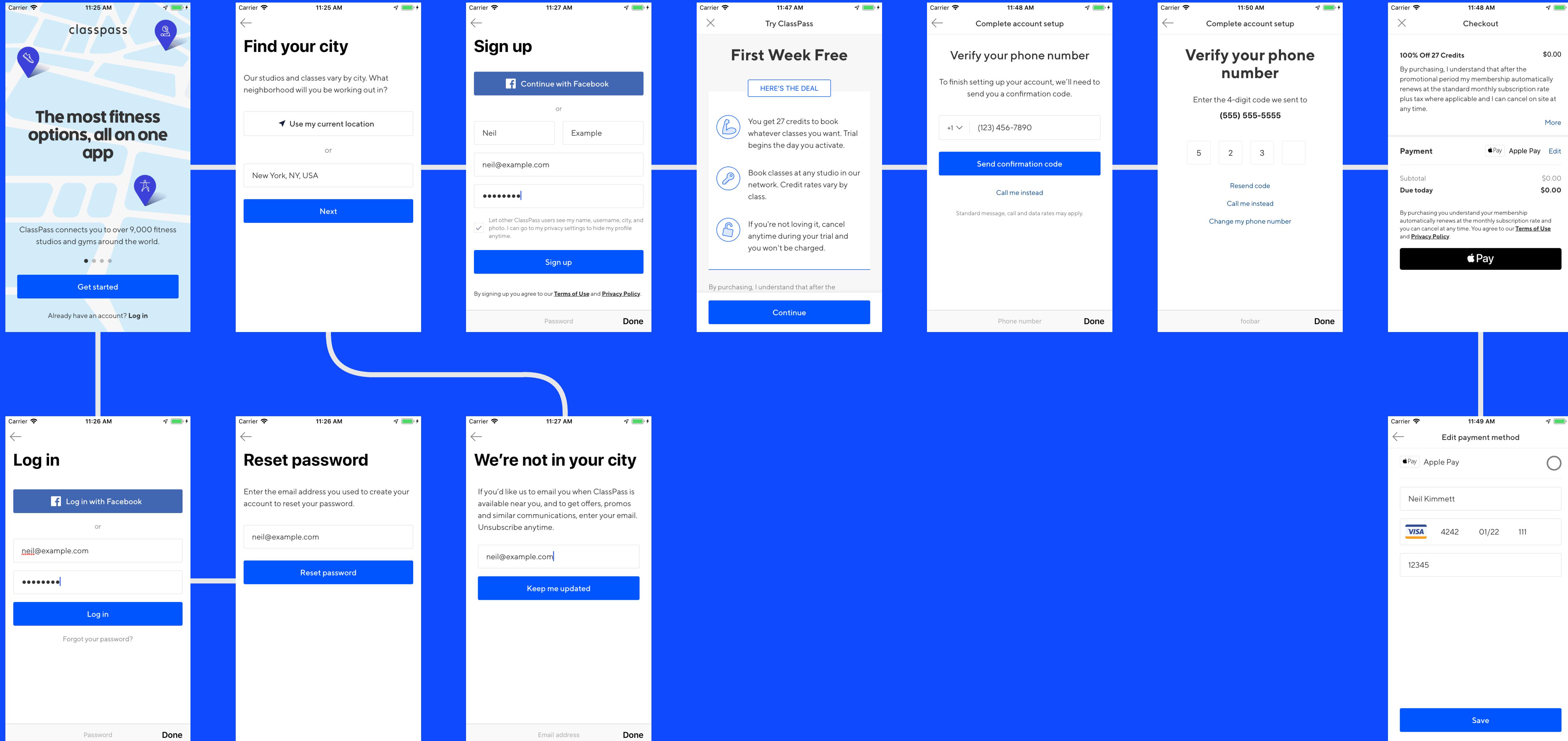


ClassPass Native Navigation

```
render() {  
  
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    'signUp': SignUp,  
  }  
  
  const Component = routes[props.route]  
  
  return (  
    <Component {...props} />  
  )  
}
```



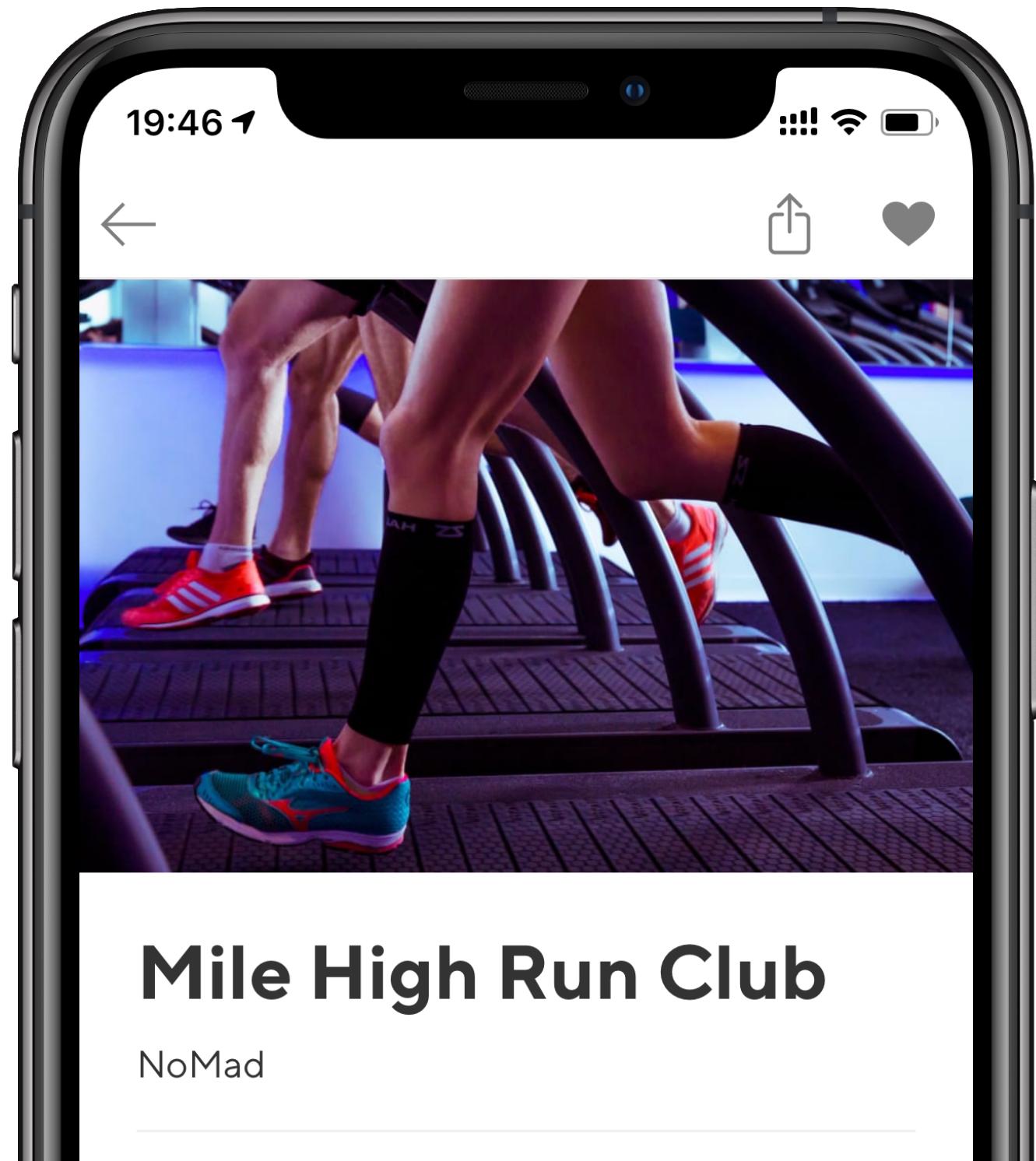
Sign up flow



React Native at ClassPass

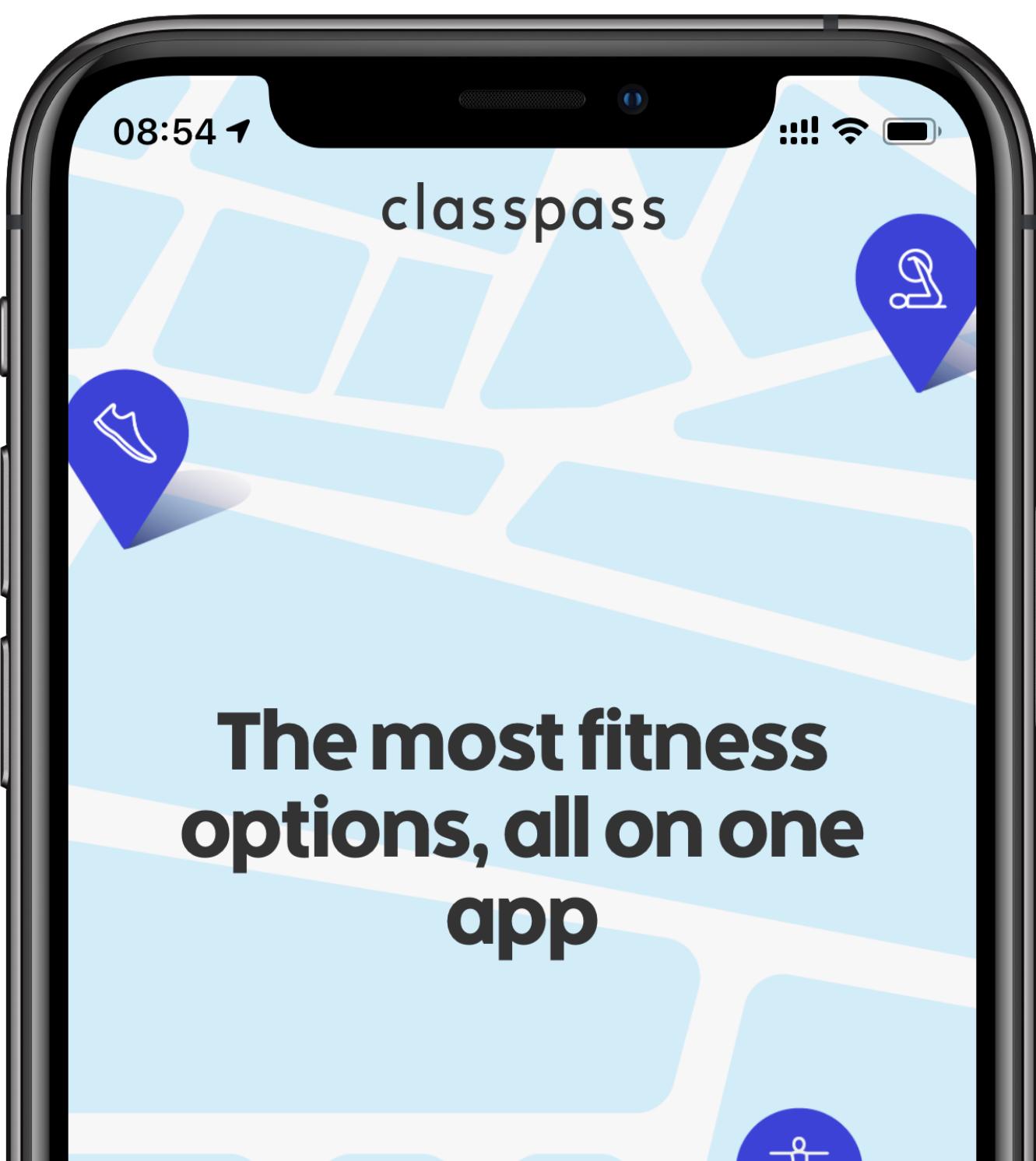
1

Venue detail



2

Sign up flow



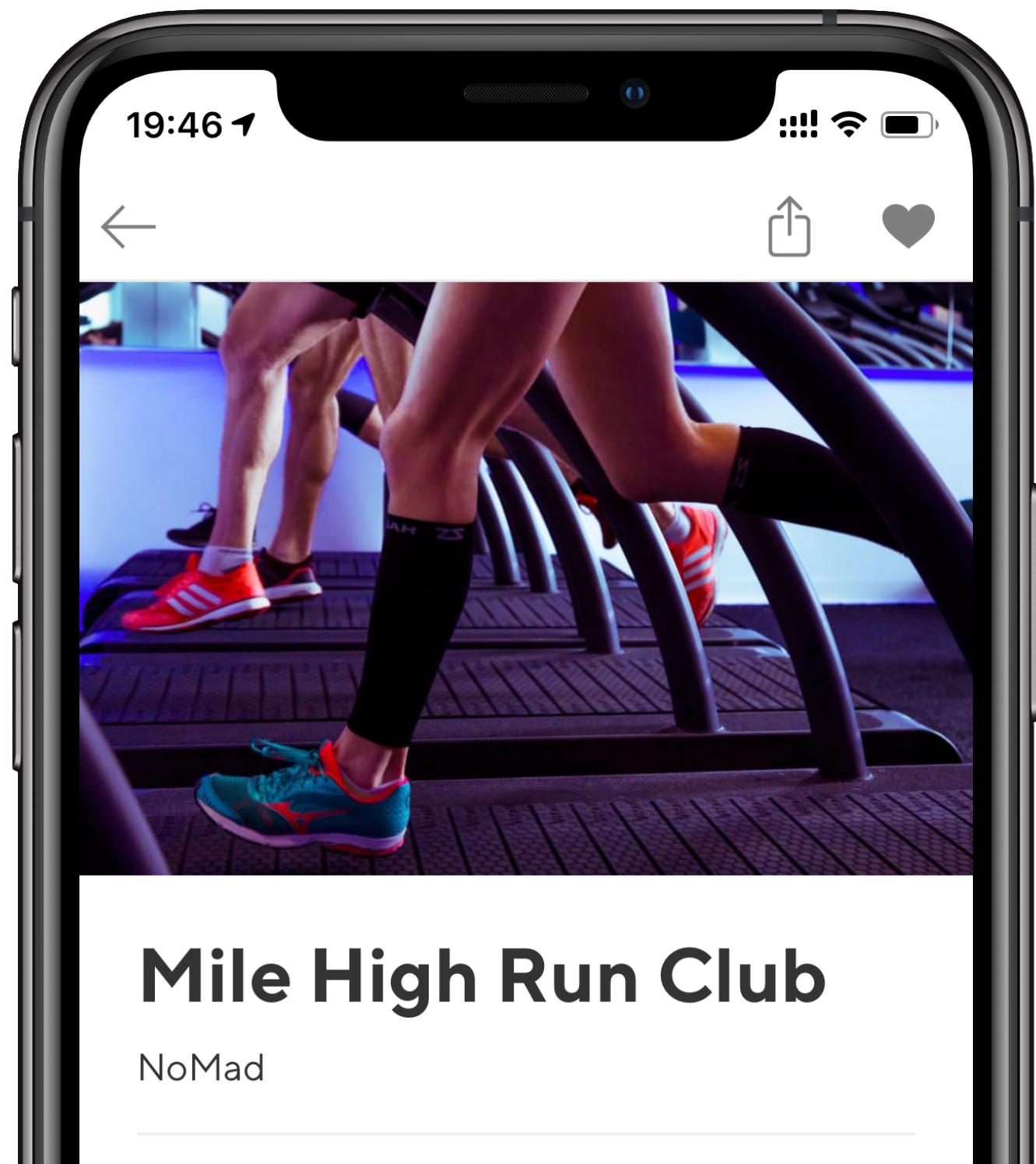
3

Schedule list

React Native at ClassPass

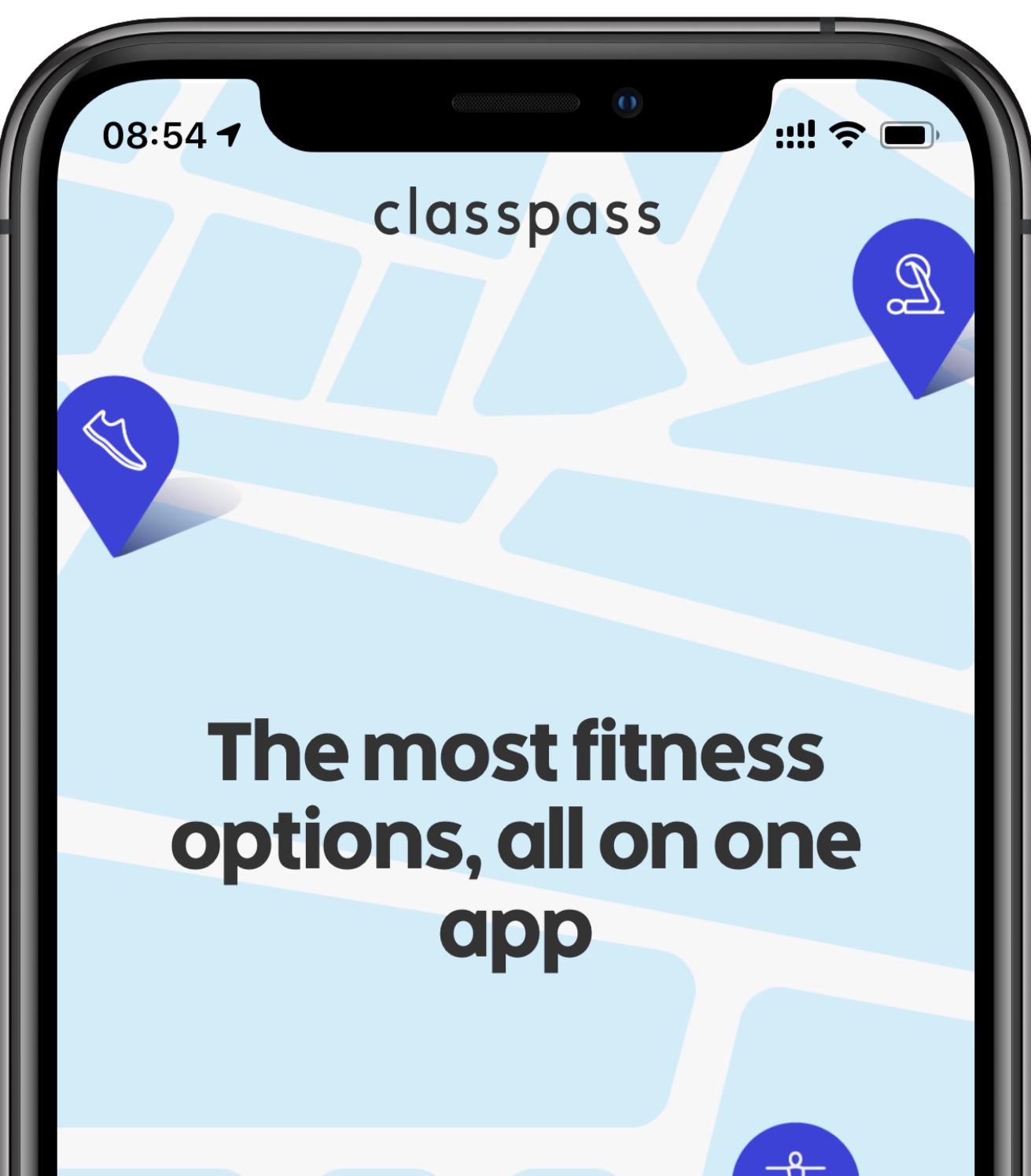
1

Venue detail



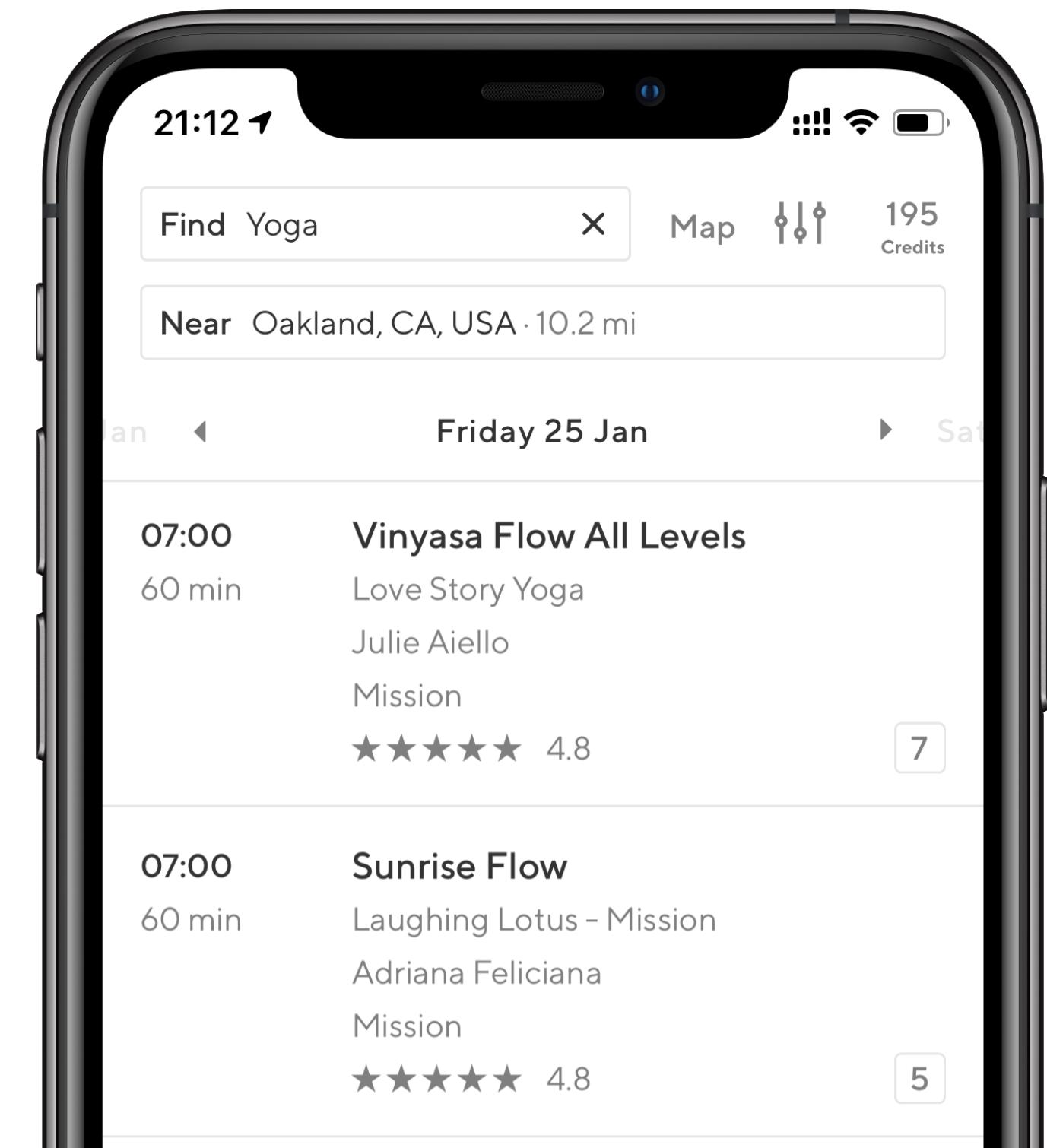
2

Sign up flow



3

Schedule list



Schedule list

Schedule list

| 7 | Friday, Feb 8 | Sa |
|---|--|----|
|  Peloton Tread Studio West Village ★★★★★ 4.7 FEATURED STUDIO | | |
| 12:00 am | Gym Time 120 min 24 Hour Fitness - Madison Squar... NoMad ★★★★★ 4.6 | 7 |
| 1:00 am | Gym Time 120 min 24 Hour Fitness - Madison Squar... NoMad ★★★★★ 4.6 | 5 |
| 2:00 am | Gym Time 120 min 24 Hour Fitness - Madison Squar... NoMad ★★★★★ 4.6 | 5 |
| 3:00 am | Gym Time 120 min 24 Hour Fitness - Madison Squar... NoMad | 5 |

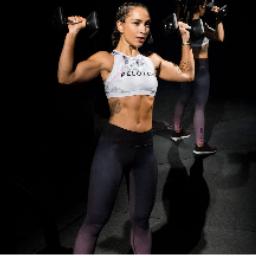
Schedule list

11:02 ⓘ

Find an activity or venue Map 126 Credits

Near Current location · 3.1 mi

7 Friday, Feb 8 Sa

 Peloton Tread Studio
West Village
★★★★★ 4.7
FEATURED STUDIO

12:00 am Gym Time
120 min 24 Hour Fitness - Madison Squar...
NoMad
★★★★★ 4.6 7

1:00 am Gym Time
120 min 24 Hour Fitness - Madison Squar...
NoMad
★★★★★ 4.6 5

2:00 am Gym Time
120 min 24 Hour Fitness - Madison Squar...
NoMad
★★★★★ 4.6 5

3:00 am Gym Time
120 min 24 Hour Fitness - Madison Squar...
NoMad

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Schedule list

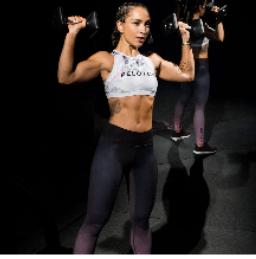
11:02 ↗

Find an activity or venue

Map

Near Current location · 3.1 mi

7 Friday, Feb 8 Sa

 Peloton Tread Studio
West Village
★★★★★ 4.7
FEATURED STUDIO

12:00 am Gym Time
120 min 24 Hour Fitness - Madison Squar...
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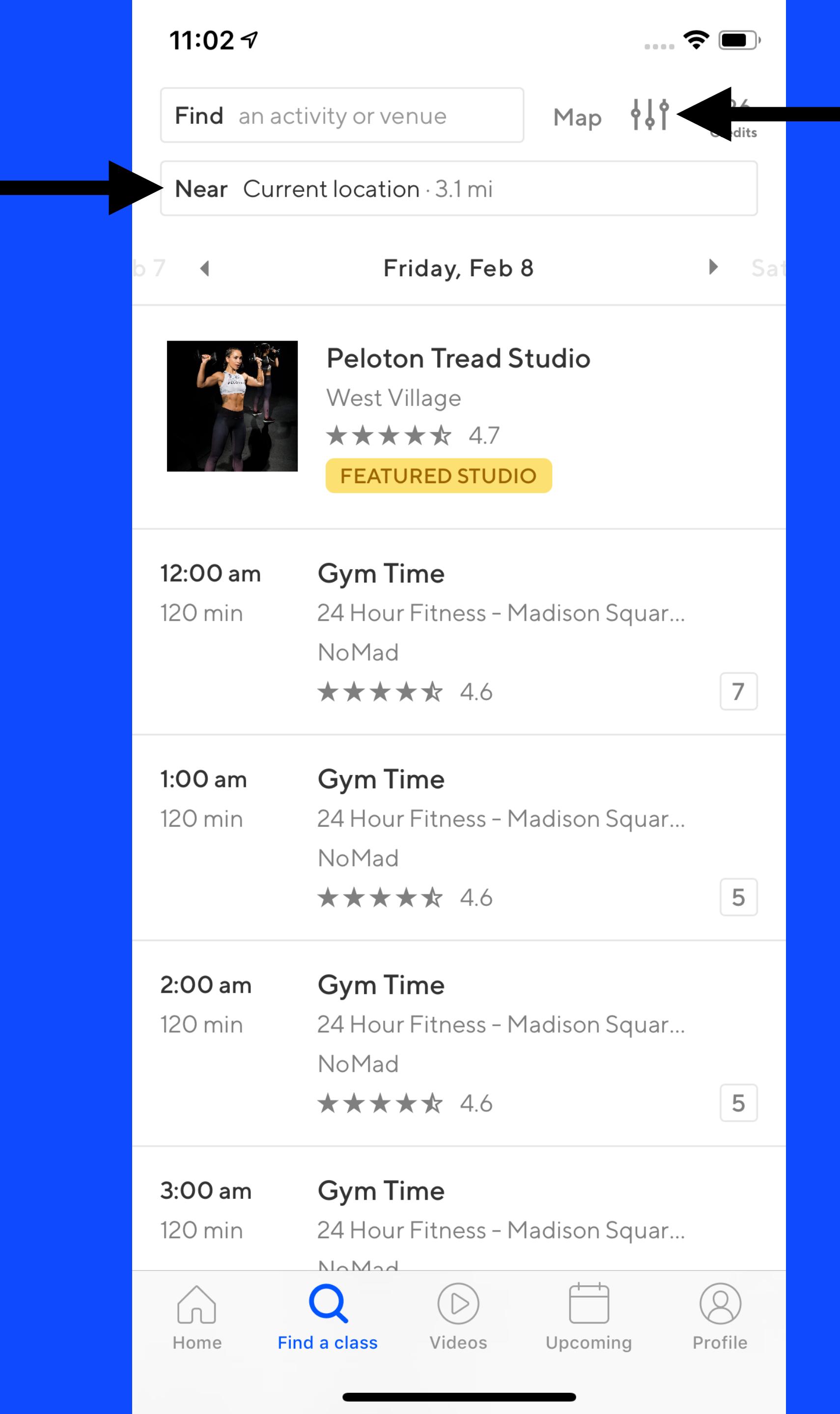
2:00 am Gym Time
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NoMad
★★★★★ 4.6 5

3:00 am Gym Time
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NoMad

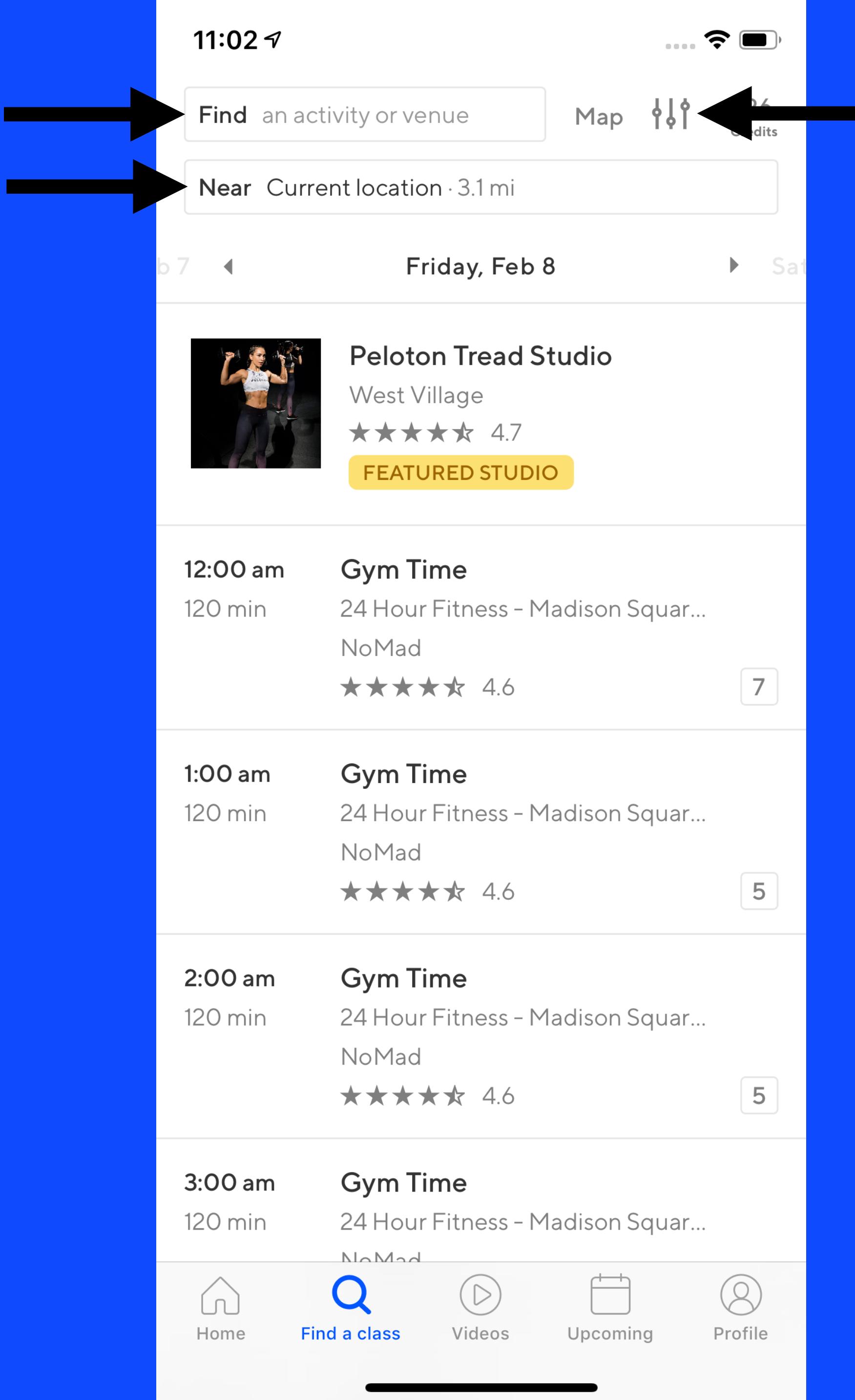
Home Find a class Videos Upcoming Profile

A black arrow points to the Map icon in the top right corner of the header.

Schedule list



Schedule list



Schedule list

11:02 ↗



Find an activity or venue

Map



Near Current location · 3.1 mi

24 credits

6

Today Thursday, Feb 7

Fri 7

Friday, Feb 8

Sat 8

Saturday, Feb 9

Sun

**Sal Anthony's Movement Salon**

Gramercy Park

★★★★★ 4.7

FEATURED STUDIO

**Peloton Tread Studio**

West Village

★★★★★ 4.7

FEATURED STUDIO

You are viewing classes in your next cycle**Mile High Run Club**

NoHo

★★★★★ 4.9

FEATURED STUDIO

10:40 am

Whole Body Cryotherapy

10 min

Advanced Cryo NYC

SoHo

★★★★★ 4.8

Wellness 19

12:00 am

Gym Time

120 min

24 Hour Fitness - Madison Squar...

NoMad

★★★★★ 4.6

7

10:45 am

Signature II

60 min

Physique 57 - Spring Street

Adam Dickerson

SoHo

★★★★★ 4.8

12

1:00 am

Gym Time

120 min

24 Hour Fitness - Madison Squar...

NoMad

★★★★★ 4.6

12:00 am

Gym Time

120 min

24 Hour Fitness - Madison Squar...

NoMad

★★★★★ 4.6

6

11:00 am

Lymph

55 min

Shape House - Dumbo

DUMBO

★★★★★ 4.8

Wellness 18

2:00 am

Gym Time

120 min

24 Hour Fitness - Madison Squar...

NoMad

★★★★★ 4.6

12:15 am

Hair Therapy

60 min

Hair Repair Bar by Giojé

West Village

★★★★★ 4.9

Wellness 27

11:00 am

Sweat

55 min

Shape House - Dumbo

3:00 am

Gym Time

120 min

24 Hour Fitness - Madison Squar...

NoMad

★★★★★ 4.6

5



Home



Find a class



Videos



Upcoming



Profile

Should you use React Native in your app?



React Native at Airbnb

React Native at Airbnb

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Due to a variety of technical and organizational issues, we will be sunsetting React Native and putting all of our efforts into making native amazing.



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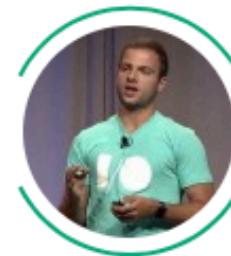
M

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React Native at Airbnb: The Technology

The technical details



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What's Next for Mobile at Airbnb

Bringing the best back to native



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In 2016, we took a big bet on React Native. Two years later, we're ready to share our experience with the world and show what's next.



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Building a Cross-Platform Mobile Team

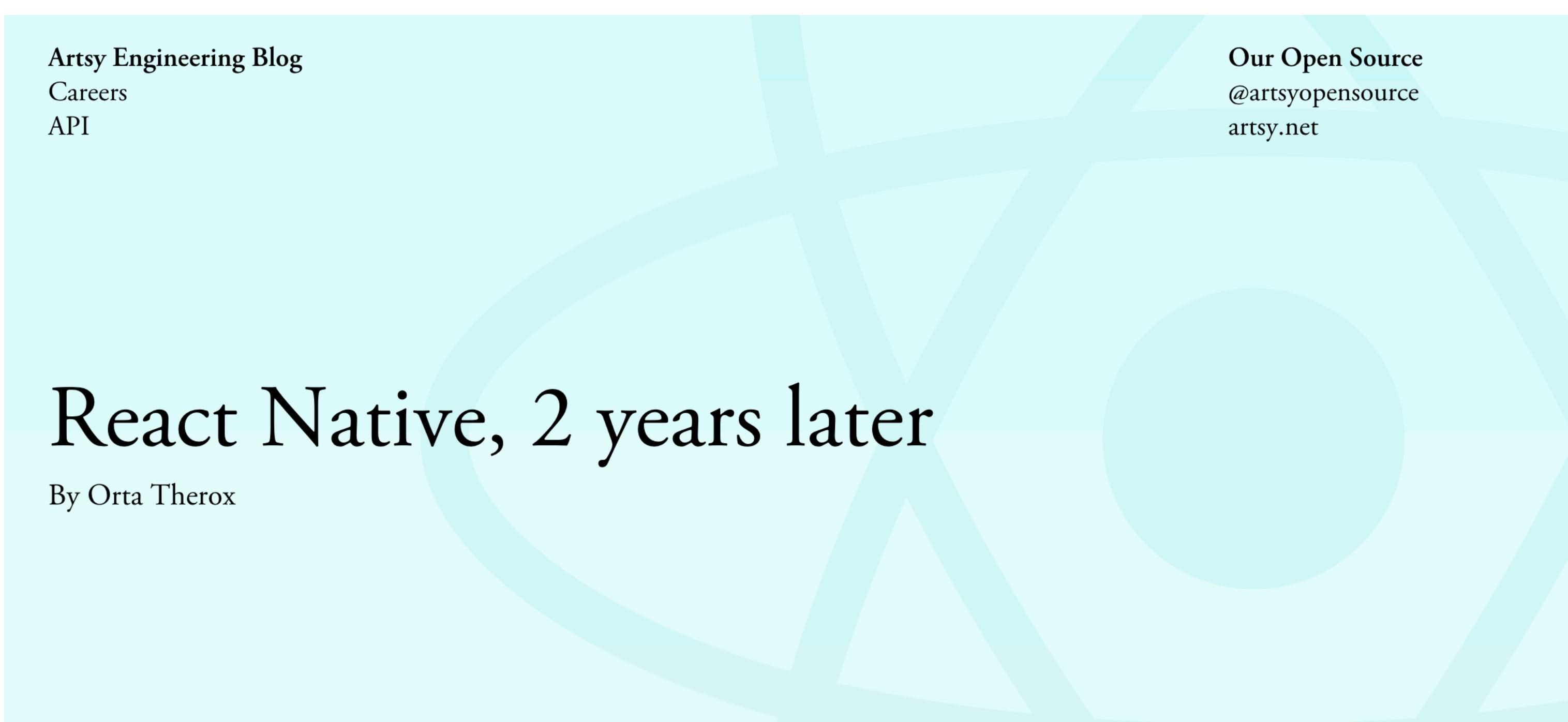
Adapting mobile for a world with React Native



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<http://artsy.github.io/blog/2018/03/17/two-years-of-react-native/>



Supporting React Native at Pinterest



Pinterest Engineering

May 10, 2018 · 6 min read

Vivian Qu | Pinterest engineer, Growth

https://medium.com/@Pinterest_Engineering/

Artsy Engineering Blog
Careers
API

Our Open Source
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[artsy.net](#)

React Native, 2 years later

By Orta Therox

classpass

<http://artsy.github.io/blog/2018/03/17/two-years-of-react-native/>

Sunsetting React Native at Airbnb

“there were a number of technical and organizational challenges that we were unable to overcome that would have made continuing to invest in React Native a challenge”

<https://medium.com/airbnb-engineering/sunsetting-react-native-1868ba28e30a>

Technical challenges

Technical challenges

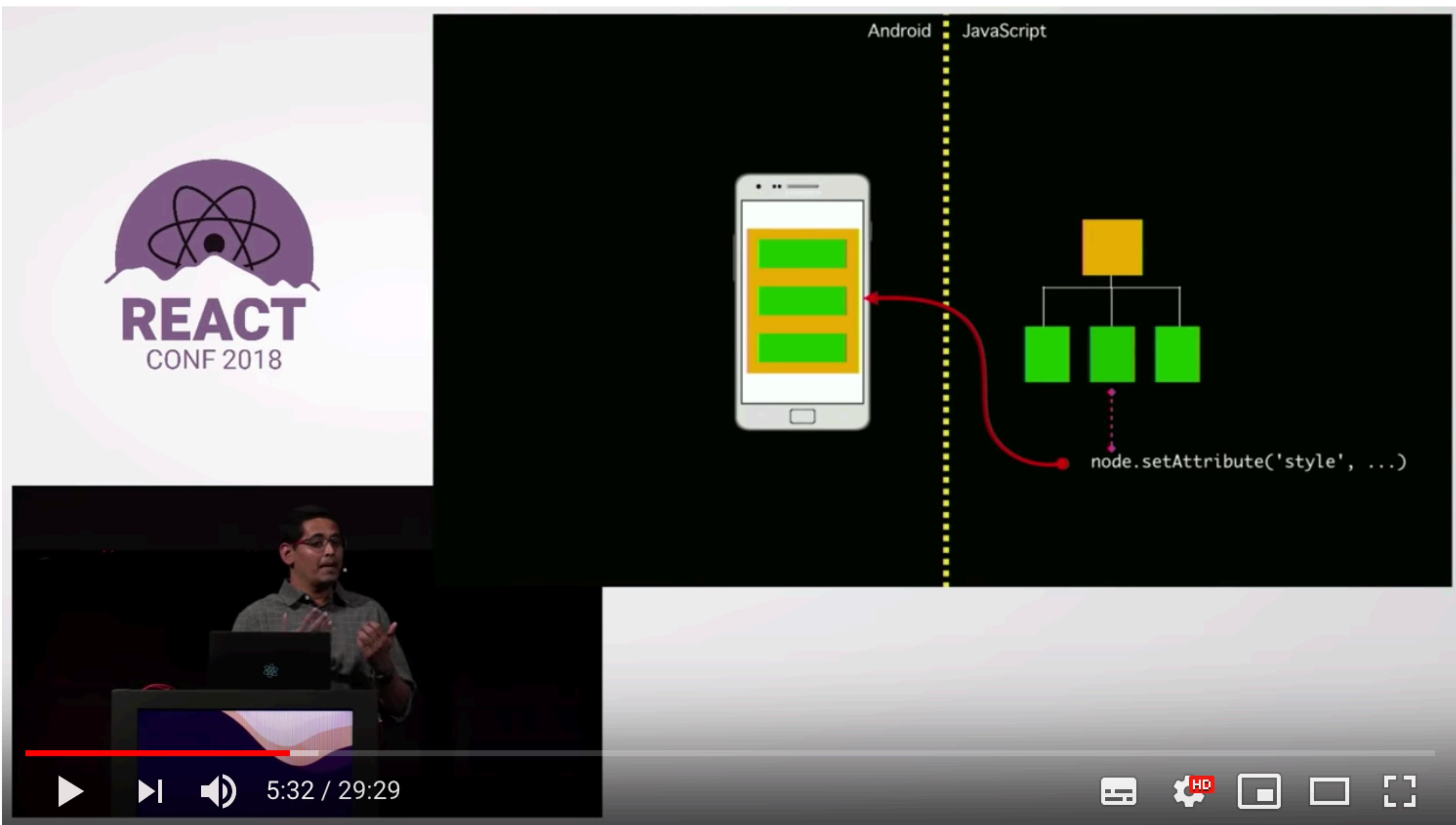
- investing in infrastructure

Technical challenges

- investing in **infrastructure**
- initial **render time**

Technical challenges

- investing in **infrastructure**
- initial **render time**
- **asynchronous native bridge**



React Native's New Architecture - Parashuram N - React Conf 2018

22,533 views

518

7

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SAVE

...

<https://www.youtube.com/watch?v=UcqRXTriUVI>

React Native's new architecture

React Native's new architecture

- new architecture called **Fabric**

React Native's new architecture

- new architecture called **Fabric**
- opt-in **synchronous execution** to help performance

React Native's new architecture

- new architecture called **Fabric**
- opt-in **synchronous execution** to help performance
- JSI: **shared memory** between JS and native objects

React Native's new architecture

- new architecture called **Fabric**
- opt-in **synchronous execution** to help performance
- JSI: **shared memory** between JS and native objects

<https://github.com/react-native-community/discussions-and-proposals/issues/40>



Krzysztof Magiera

@kzzzf

Following



So it appears that React Native github repo has all the code to run Fabric. With a little bit of hacking I finally got it to work with RNTester app on iOS, AMA



The image shows a screenshot of an iPhone X displaying a React Native application. The top status bar indicates 'Carrier' and '3:24 PM'. The main screen title is 'Layout - Flexbox'. Below the title, there's a 'Layout' section with a heading 'Flex Direction'. It shows four examples: 'row' (blue, purple, orange, yellow, green circles at top: 15, left: 160), 'row-reverse' (green, yellow, orange, purple, blue circles), 'column' (blue, purple, orange, yellow, green circles), and 'column-reverse' (green, yellow, orange, purple, blue circles). Below this is a 'Justify Content - Main Direction' section with 'flex-start' (blue, purple, orange, yellow, green circles).

```
46 // RCTRootView *rootView = [[RCTRootView alloc] initWithBridge:_bridge
47 //                                         moduleName:@"RNTesterApp"
48 //                                         initialProperties:initProps];
49 //
50 UIView *rootView = [[RCTFabricSurfaceHostingProxyRootView alloc]
51                         initWithBridge:_bridge
52                                         moduleName:@"RNTesterApp"
53                                         initialProperties:initProps];
54
55 self.window = [[UIWindow alloc] initWithFrame:[UIScreen mainScreen].bounds];
56 UIViewController *rootViewController = [UIViewController new];
57 rootViewController.view = rootView;
58 self.window.rootViewController = rootViewController;
59 [self.window makeKeyAndVisible];
60 return YES;
61 }
62
63 - (NSURL *)sourceURLForBridge:(__unused RCTBridge *)bridge
64 {
65     return [[RCTBundleURLProvider sharedSettings] jsBundleURLForBundleRoot:@"RNTesterApp"
66                                         fallbackResource:nil];
67 }
68
69 - (BOOL)application:(UIApplication *)app
70             openURL:(NSURL *)url
71             options:(NSDictionary<UIApplicationOpenURLOptionsKey,id> *)options
72 {
73     return [RCTLinkingManager application:app openURL:url options:options];
74 }
```

9:42 AM - 20 Nov 2018

Organizational challenges

Organizational challenges

- React Native is **polarising**

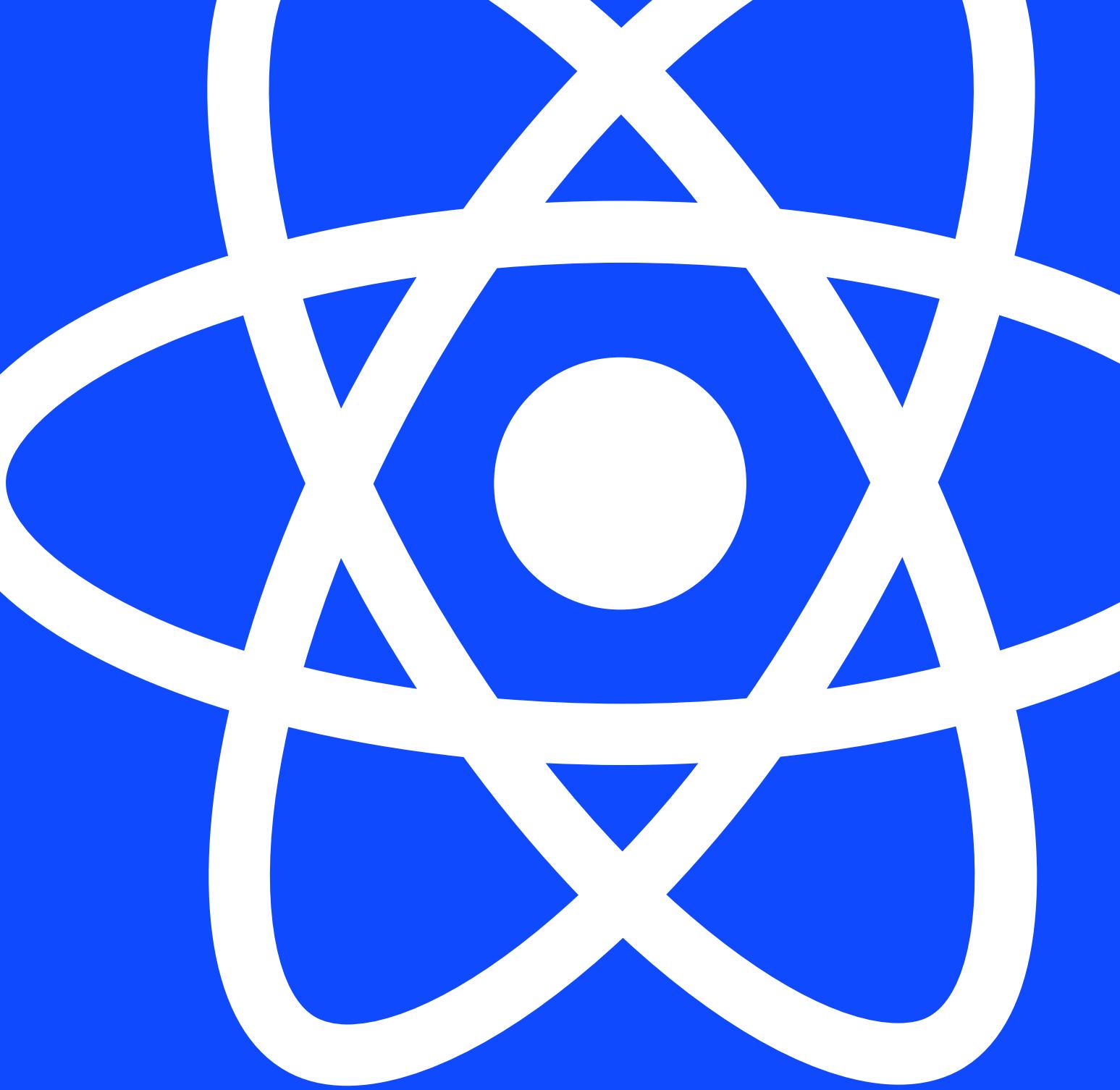
Organizational challenges

- React Native is **polarising**
- React Native is still **native**

Organizational challenges

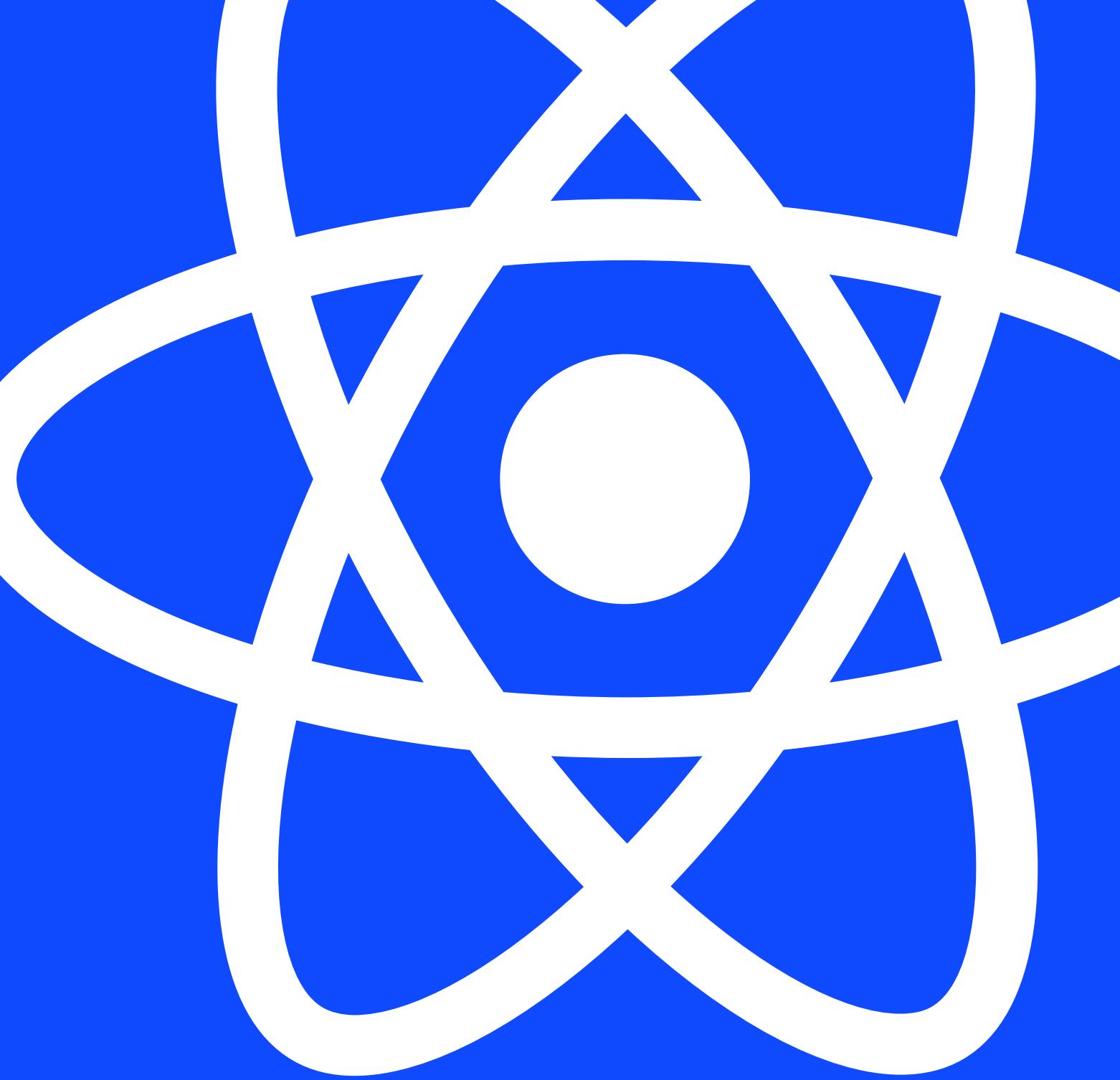
- React Native is **polarising**
- React Native is still **native**
- **hiring** can be a challenge

Should you use React Native in your app?



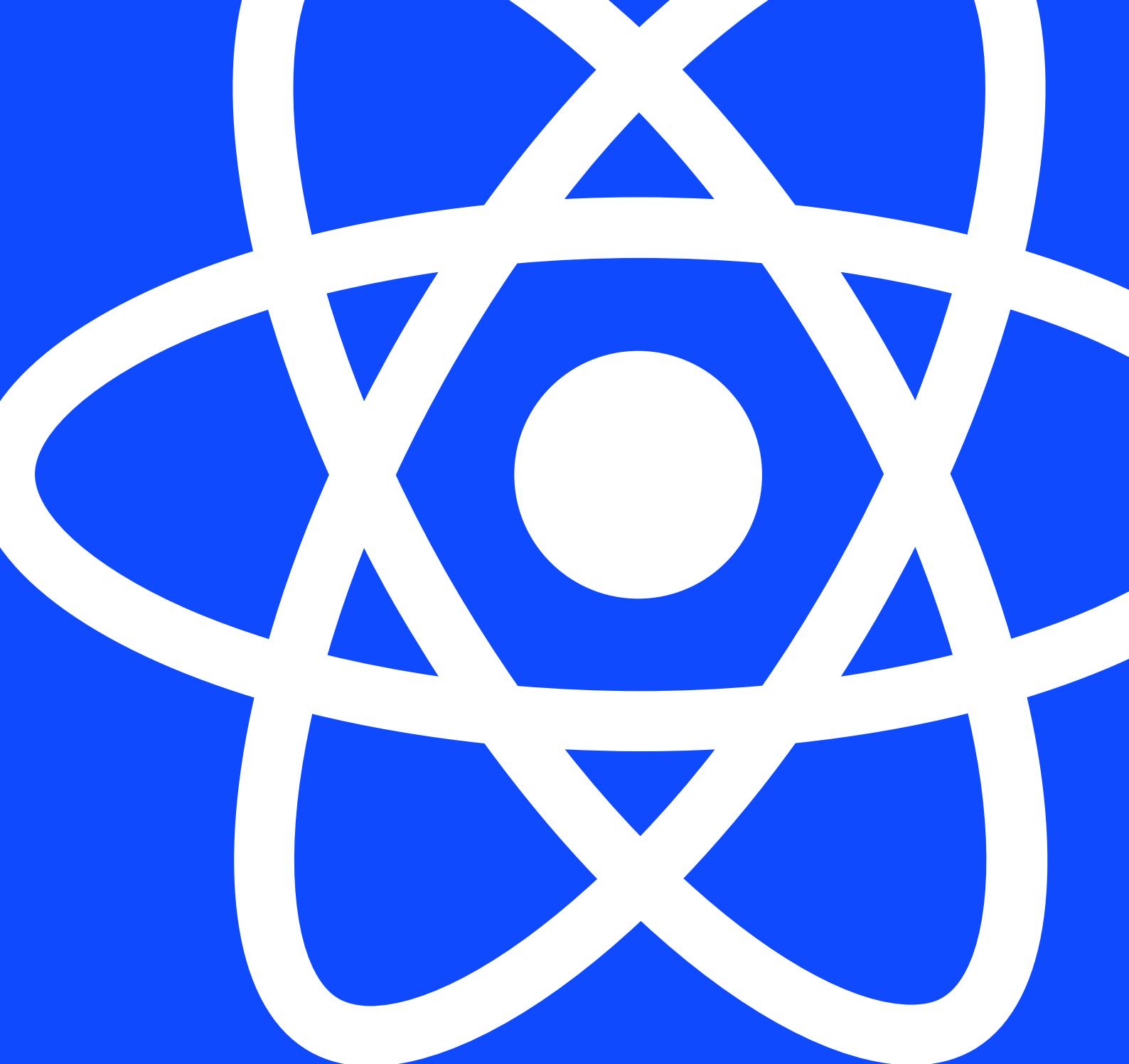
Should you use React Native in your app?

- think about your inputs and outputs



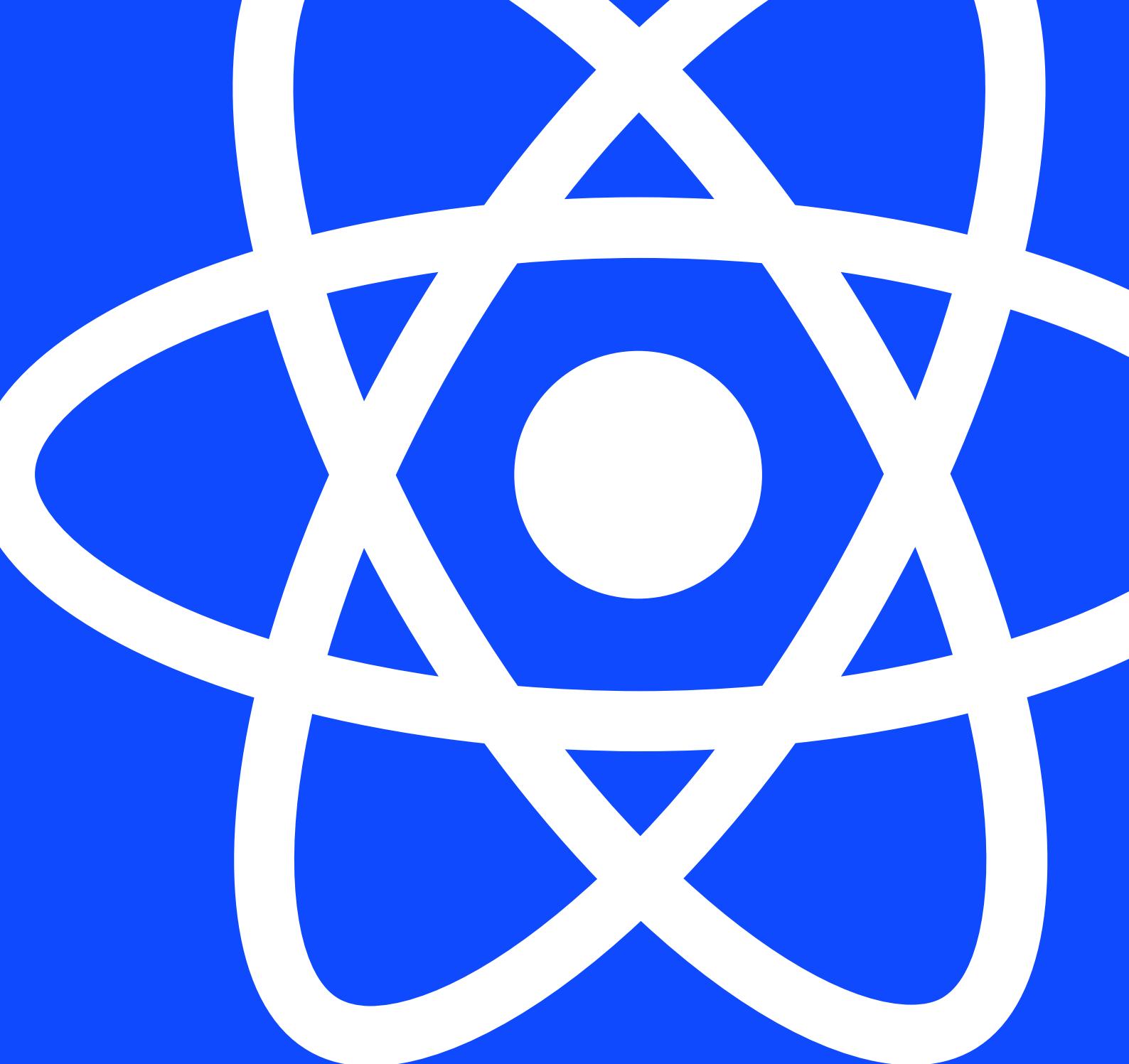
Should you use React Native in your app?

- think about your **inputs** and **outputs**
- think about your **team** and their **skills**



Should you use React Native in your app?

- think about your **inputs** and **outputs**
- think about your **team** and their **skills**
- regularly **re-evaluate**



Whats next?

11:47 11:47

50 classes

50

50 classes

The big 5-0

You took 50 classes

Share

Home Find a class Workouts Upcoming Profile

11:46 11:46

Invite friends

Invite your crew to

Boot Camp
Warrior Fitness Boot Camp - Brooklyn
Tomorrow, 7 Feb, 05:30 - 06:30

Share a free trial

Kevin Hylant
Austin Metro

Lee Wang
New York Metro

Send

11:47 11:47

Find an activity or venue

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Brrrn • Flatiron District

Mile High Run Club • NoMad

Laughing Lotus • Flatiron District

Show more ...

Classes at favorite studios
Barry's Bootcamp and 19 other studios.

Nearby

Warrior Fitness Boot Camp • Brooklyn
1.7 km Williamsburg

The Dreamery by Casper
1.5 km SoHo

STREB @ S.L.A.M.
1.5 km Williamsburg

Show more ...

9:41 AM 100% AT&T

Hi, Alexandria

Ready to hit the ground running?
We'll help you get started!



A few quick questions is all it takes

Let's go

9:41 AM 100% AT&T

What kinds of workouts do you want to do – or try?

Pick one, pick all.

| | |
|--|---|
|  Barre |  Boxing |
|  Cycling |  Dance |
|  Gym Time |  Pilates |
|  Rowing |  Strength |
|  Yoga | |

Next

9:41 AM 100% AT&T

How would you describe your fitness level?

We'll find classes that match your abilities

 Beginner
You work out occasionally

 Experienced
You work out regularly

 Advanced
You work out frequently

Next



Thanks!

@neilkimmett

Speaker Hours:
Thursday @ 11am
Room 210

