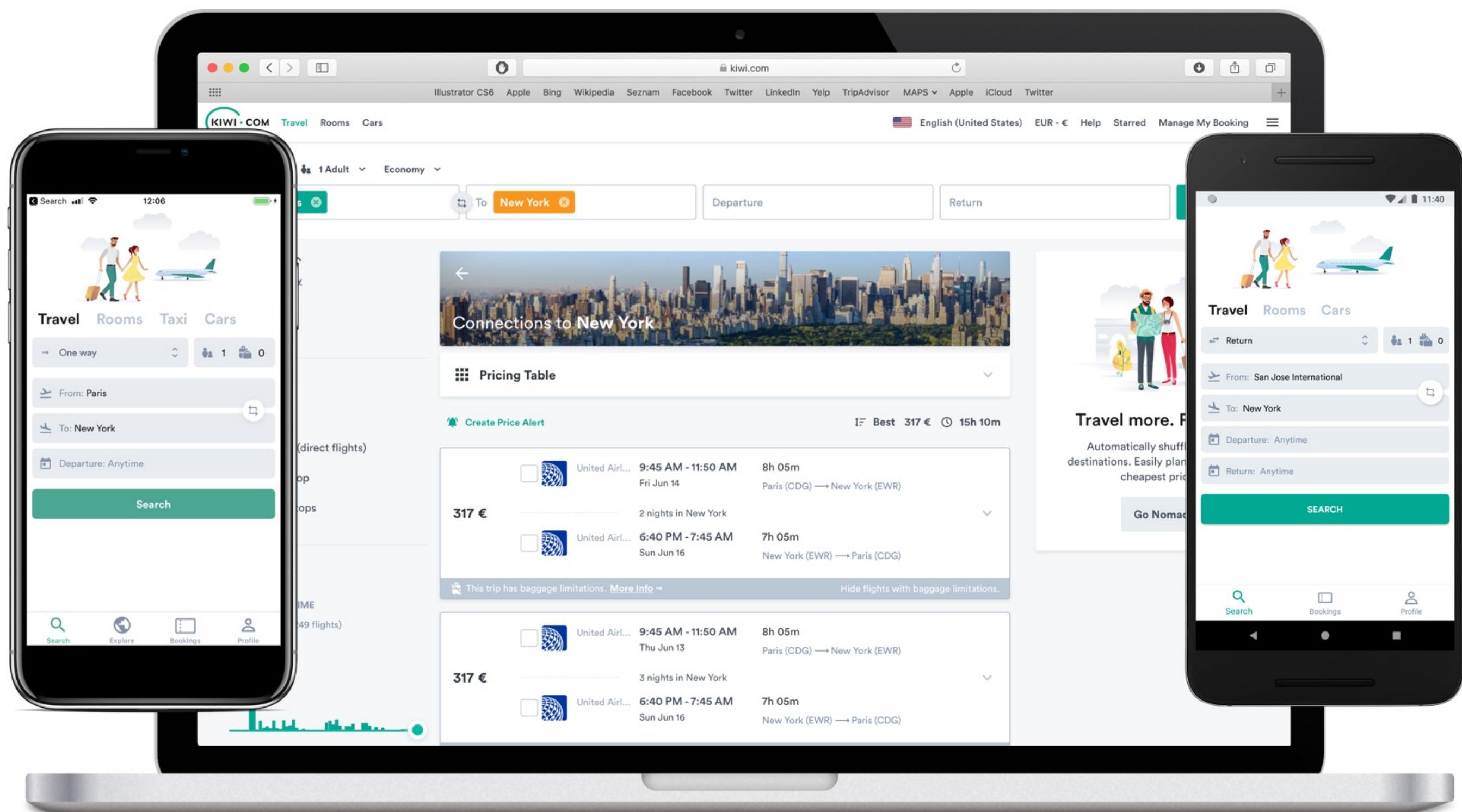


MULTIPLATFORM UI

MICHAL SÄNGER

michal.sanger@kiwi.com

**KIWI.COM WANTS TO
MAKE TRAVEL BETTER**



A screenshot of the Kiwi.com travel search interface on a Mac OS X desktop. The window title is "kiwi.com". The search parameters are set to "Return", "1 Adult", "Economy", "From Paris" (green button), "To New York" (orange button), "Departure" (empty field), "Return" (empty field), and a green "Search >" button.

Transport filters (checked): Flight only, Bus only, Train only.

Stops filter: Any (selected), Nonstop (direct flights), Up to 1 stop, Up to 2 stops.

Duration filter: MAX TRAVEL TIME (any, 1249 of 1249 flights). A histogram shows flight times with a major peak around 8 hours.

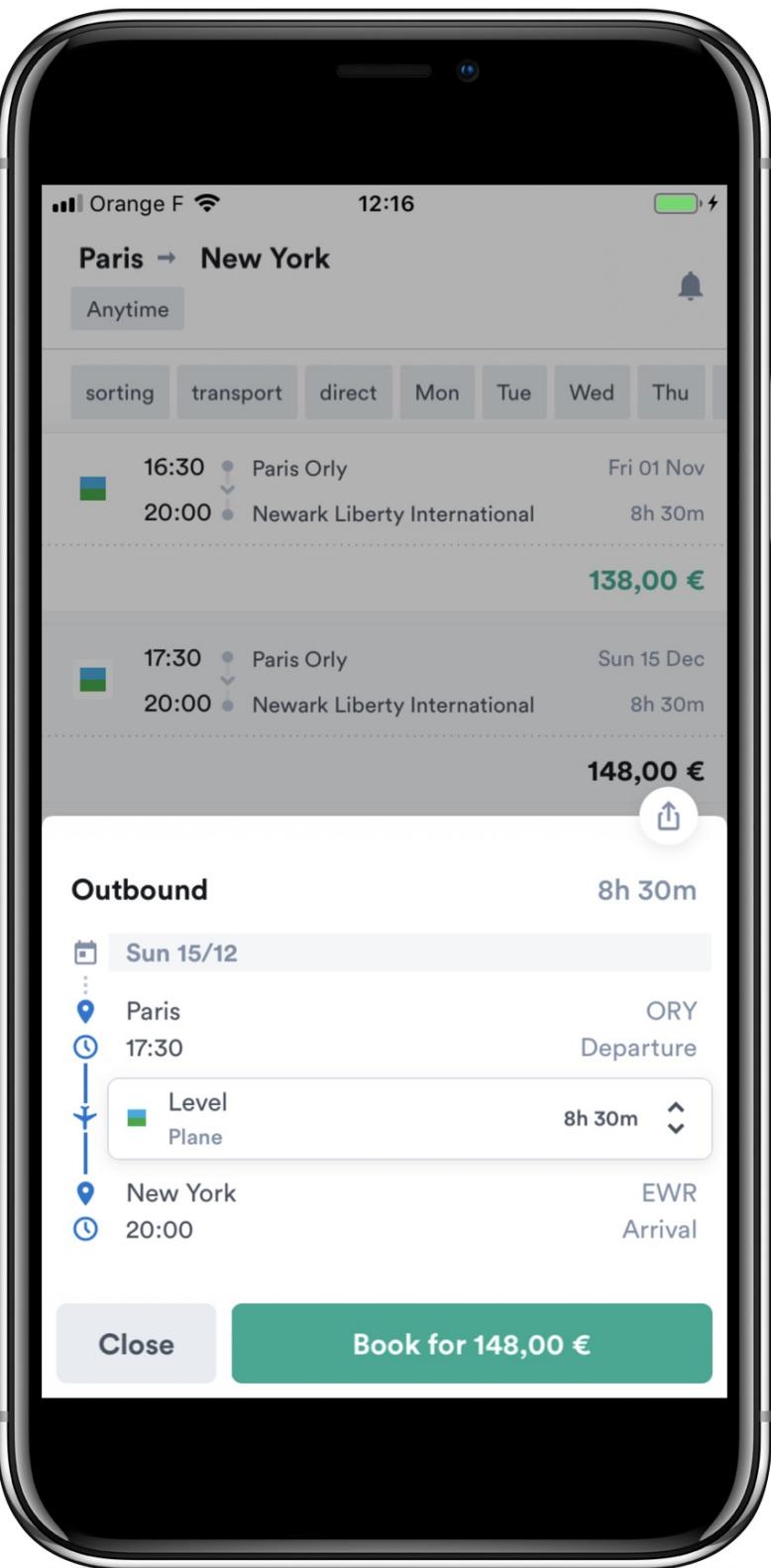
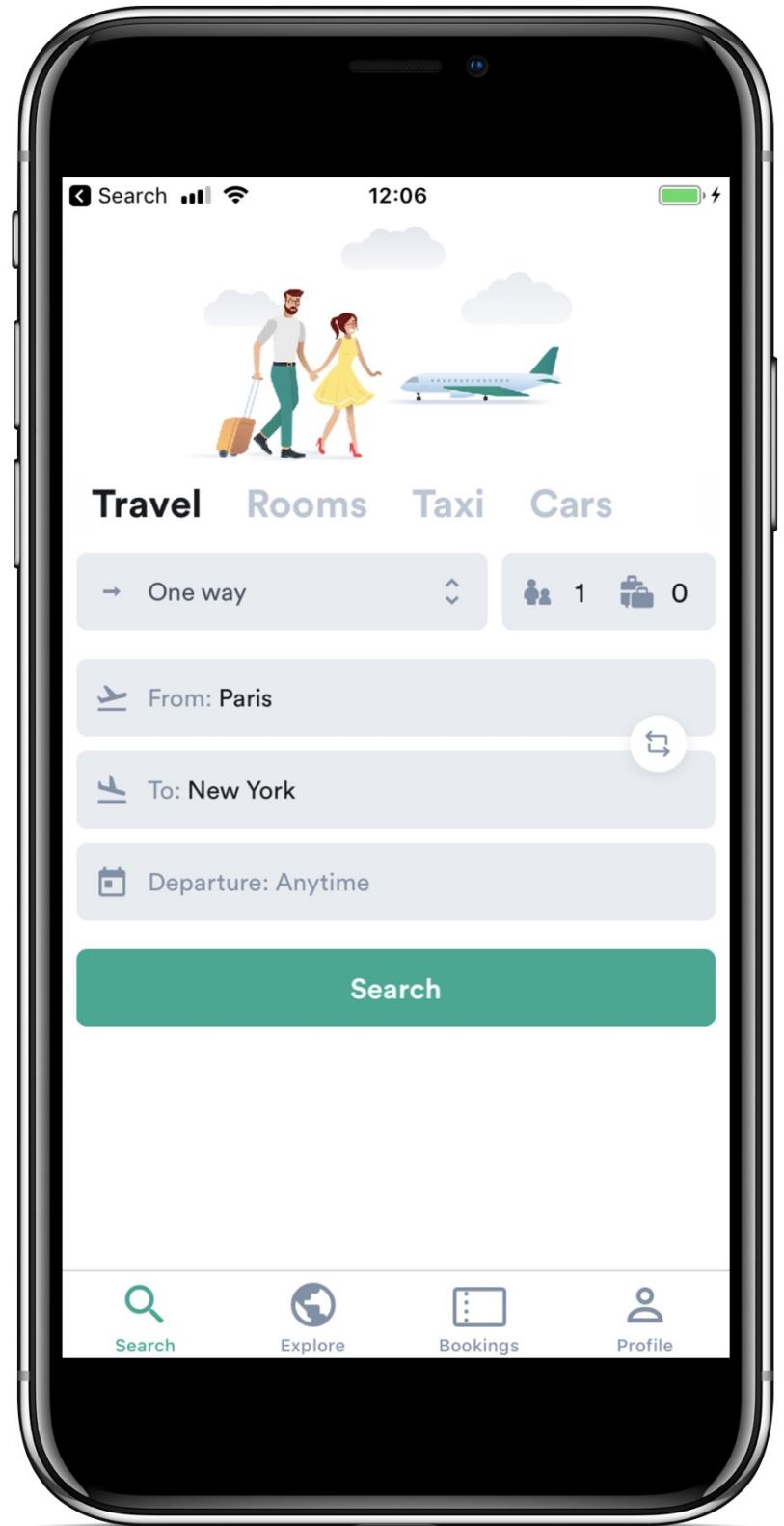
Pricing Table section:

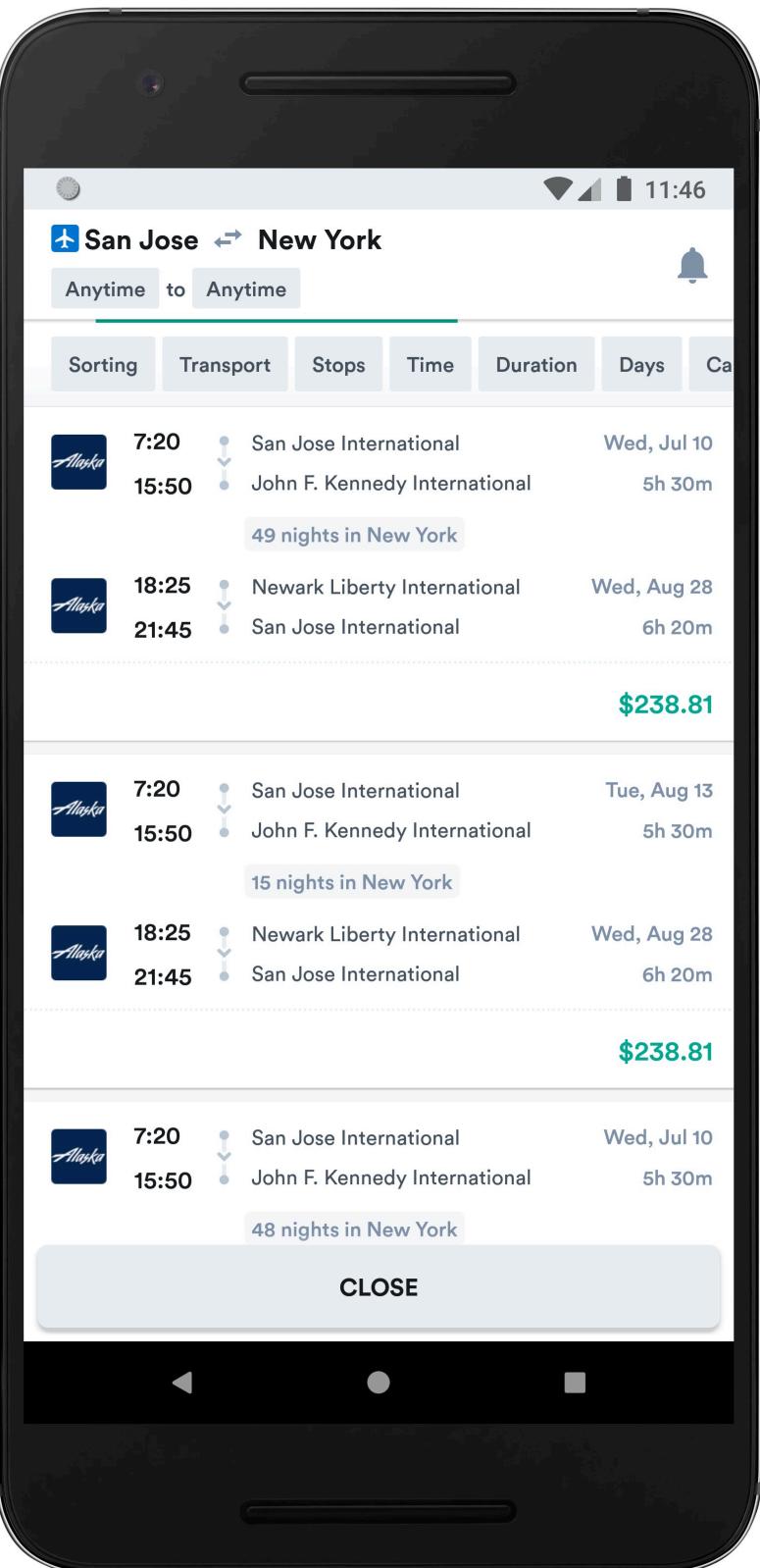
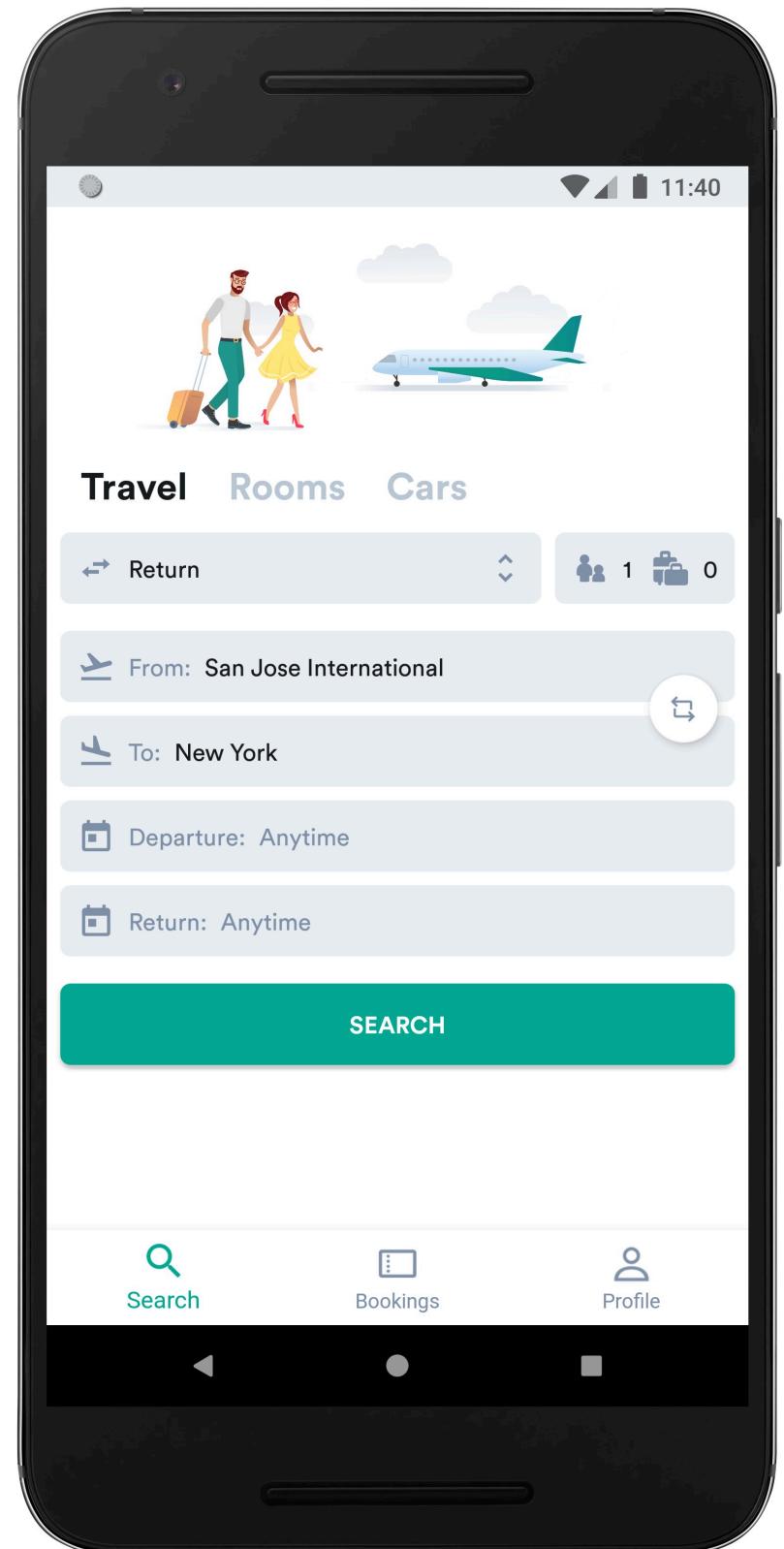
	Flight	Arrival	Departure	Duration	Price	Notes
1	United Airline	9:45 AM - 11:50 AM	Fri Jun 14	8h 05m	317 €	Paris (CDG) —> New York (EWR)
2	United Airline	6:40 PM - 7:45 AM	Sun Jun 16	7h 05m		New York (EWR) —> Paris (CDG)
<small>This trip has baggage limitations. More Info → Hide flights with baggage limitations.</small>						

	Flight	Arrival	Departure	Duration	Price	Notes
1	United Airline	9:45 AM - 11:50 AM	Thu Jun 13	8h 05m	317 €	Paris (CDG) —> New York (EWR)
2	United Airline	6:40 PM - 7:45 AM	Sun Jun 16	7h 05m		New York (EWR) —> Paris (CDG)

Connections to New York banner image showing the New York City skyline.

Travel more. Pay less. Callout: Automatically shuffle multiple destinations. Easily plan trips with the cheapest prices. [Go Nomad](#).





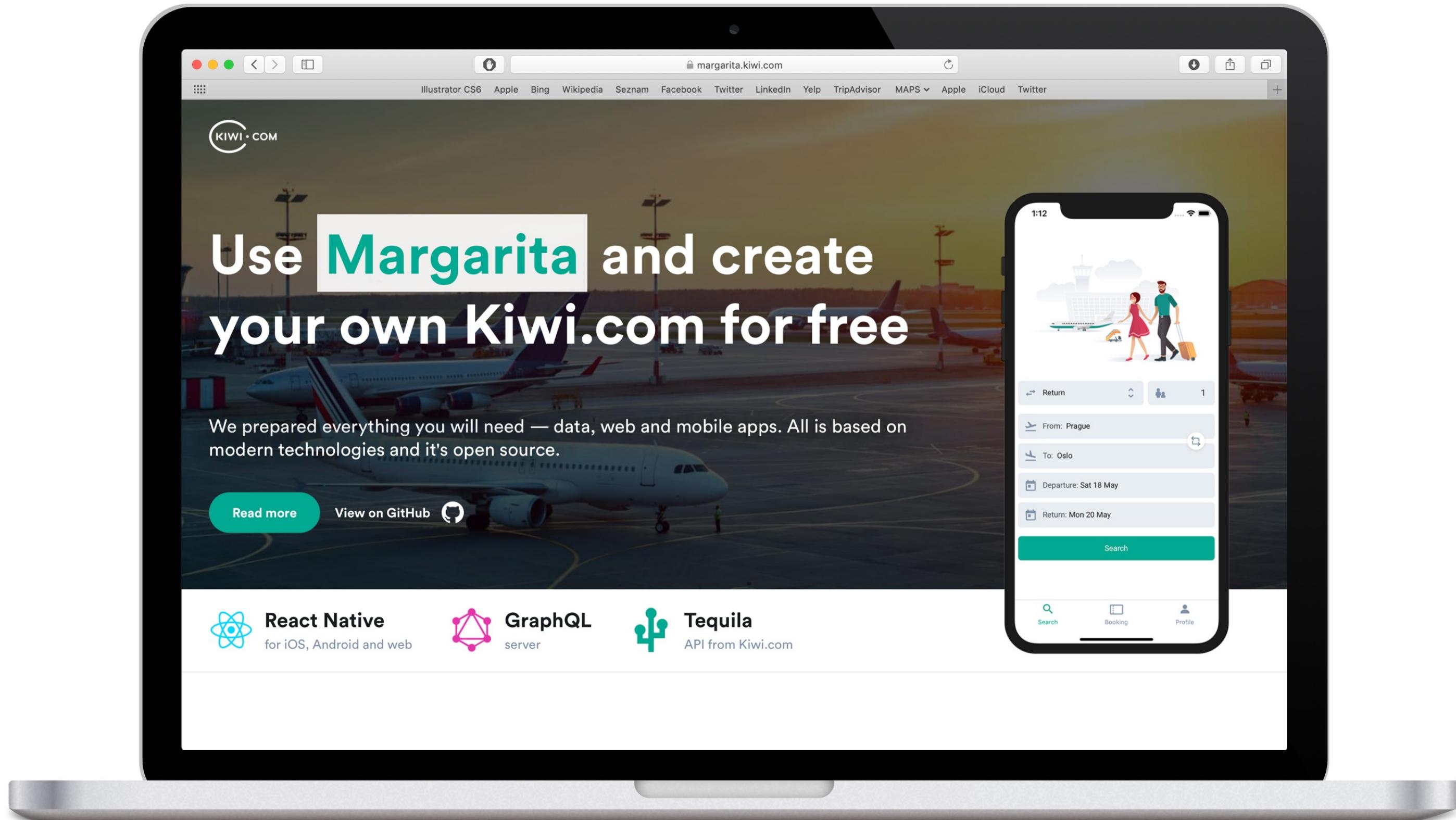
3 PLATFORMS

3 FE TEAMS

3 ISOLATED ISLANDS

NEW PROJECT

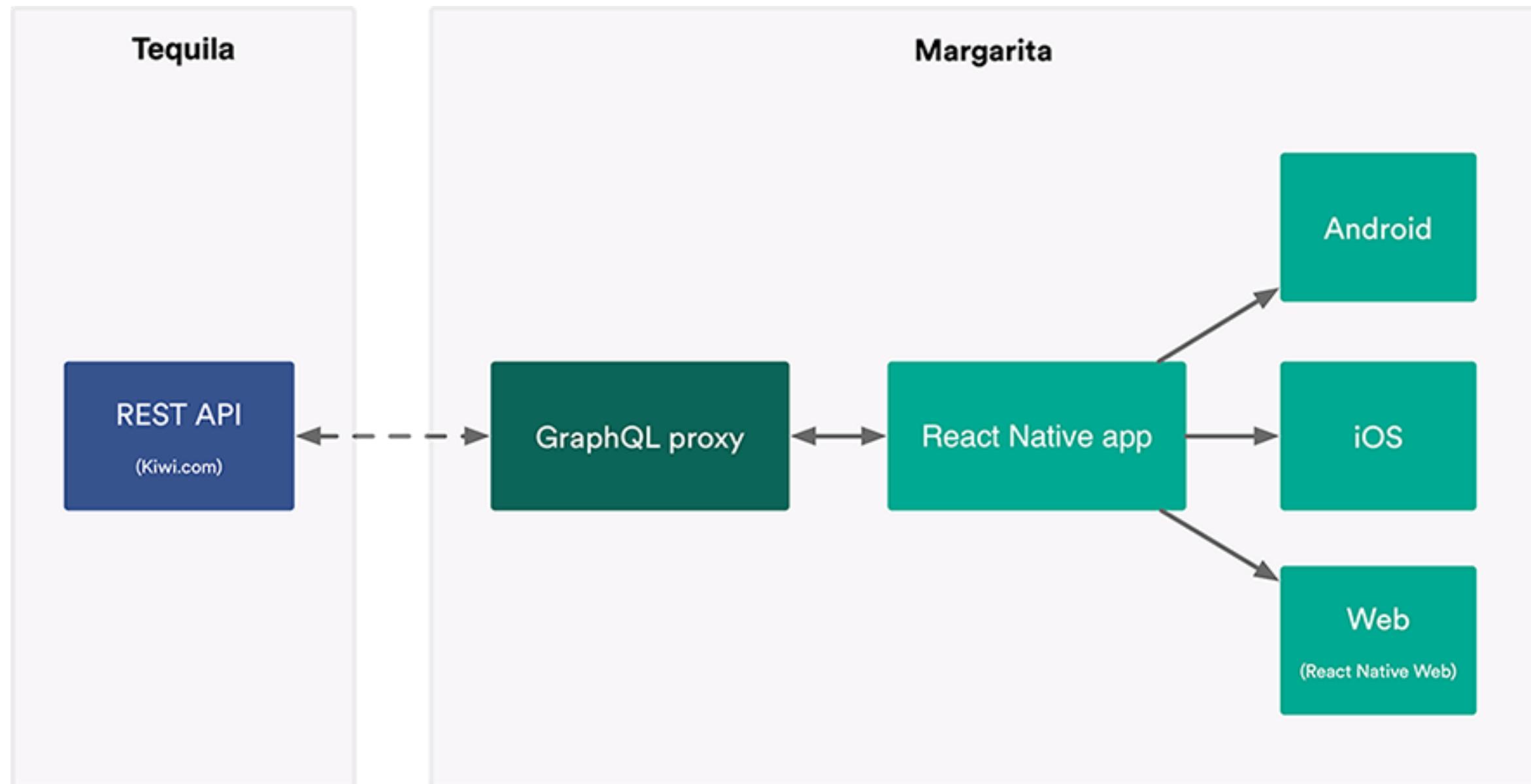
MARGARITA.KIWI.COM



OPENSOURCE

GITHUB.COM/KIWICOM/MARGARITA

MARGARITA



WE HANDLE

- > BACKEND
- > PAYMENTS
- > CUSTOMER SUPPORT

YOU ENJOY

- > **GRAPHQL**
- > **MULTIPLATFORM UI COMPONENTS**
- > **PROFIT**

HOW TO **MULTIPLATFORM UI**

REACT NATIVE FIRST

**REACT NATIVE WEB
FOR BROWSER**

PLATFORM TWEAKS

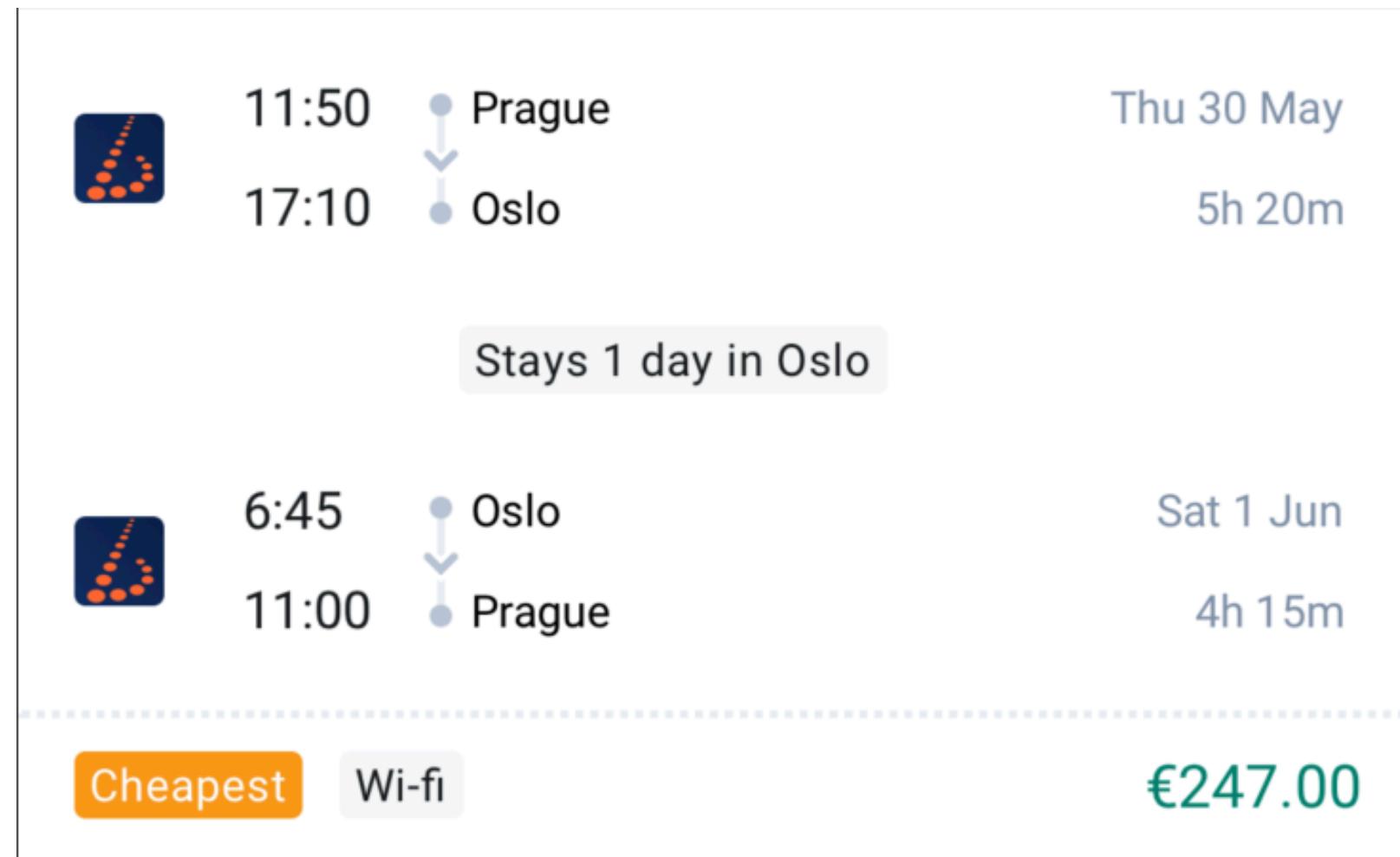
```
<CarrierLogo  
  size={Platform.OS === 'web' ? 'large' : 'medium'}  
  carriers={carriers}  
/>
```

PLATFORM TWEAKS

```
const styles = StyleSheet.create({
  text: {
    ios: {
      color: 'pink'
    },
    android: {
      color: 'deepink'
    },
    web: {
      color: 'salmon'
    }
  }
});
```

PLATFORM TWEAKS

ItineraryCard.native.js



PLATFORM TWEAKS

ItineraryCard.web.js



11:50 - 17:10

Prague → Oslo

Thu 30 May

5h 20m

€247.00

.....

Stays 1 day in Oslo



6:45 - 11:00

Oslo → Prague

Sat 1 Jun

4h 15m

localhost:3000

localhost:3000

KIWI.COM Travel Manage My Booking Profile



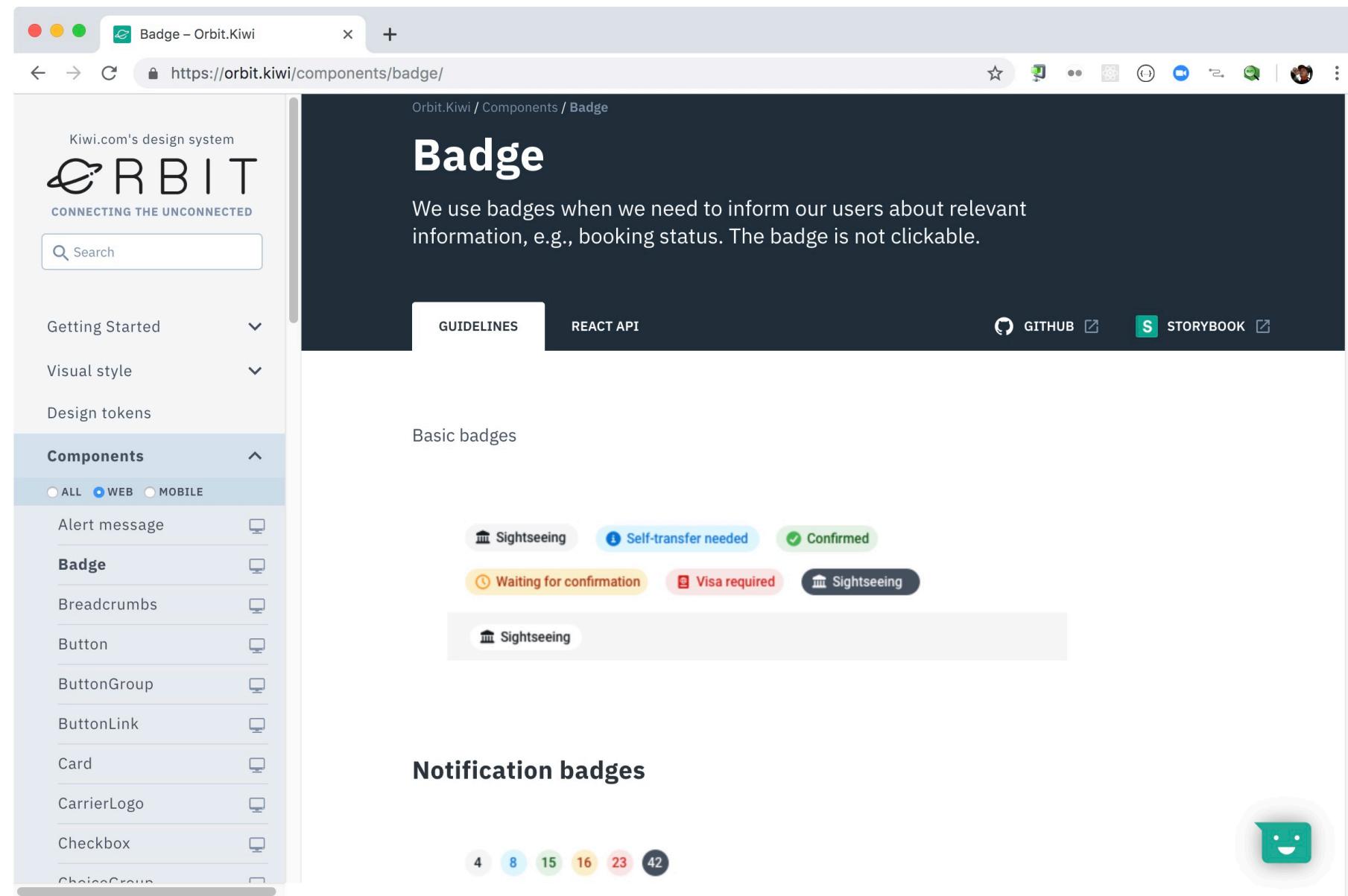
RETURN ONE WAY 1 Adult ▾

From: Prague To: Oslo

Departure: 2019-04-02 No return

Search >

REWORK HTTPS://ORBIT.KIWI



SHARED UI
SHARED KNOW-HOW

MULTIPLATFORM ORBIT
NPM PACKAGE SOON™

MARGARITA.KIWI.COM

GITHUB.COM/KIWICOM/MARGARITA

LEARN RELAY

GITHUB.COM/KIWICOM/RELAY-EXAMPLE

LEARN RELAY

- > **GRAPHQL FRAGMENTS**
 - > **SIMPLE FETCHING**
 - > **ENDLESS PAGINATION**
- > **BI-DIRECTIONAL PAGINATION**



Relay pagination showcase

Bi-directional pagination

See: [Refetch Container](#)

1. Rome
2. Paris
3. Barcelona
4. San Francisco
5. Boston
6. Washington, D.C.
7. Denver
8. Las Vegas
9. Atlanta
10. Miami
11. Tampa
12. Orlando
13. Manila
14. New York
15. London
16. Los Angeles
17. Chicago
18. Athens International
19. Hartsfield–Jackson Atlanta International
20. Barcelona–El Prat

< Previous page

Next page >

Incremental pagination 1

See: [Refetch Container](#)

1. Rome
2. Paris
3. Barcelona
4. San Francisco
5. Boston
6. Washington, D.C.
7. Denver
8. Las Vegas
9. Atlanta
10. Miami
11. Tampa
12. Orlando
13. Manila
14. New York
15. London
16. Los Angeles
17. Chicago
18. Athens International
19. Hartsfield–Jackson Atlanta International
20. Barcelona–El Prat

Load more!

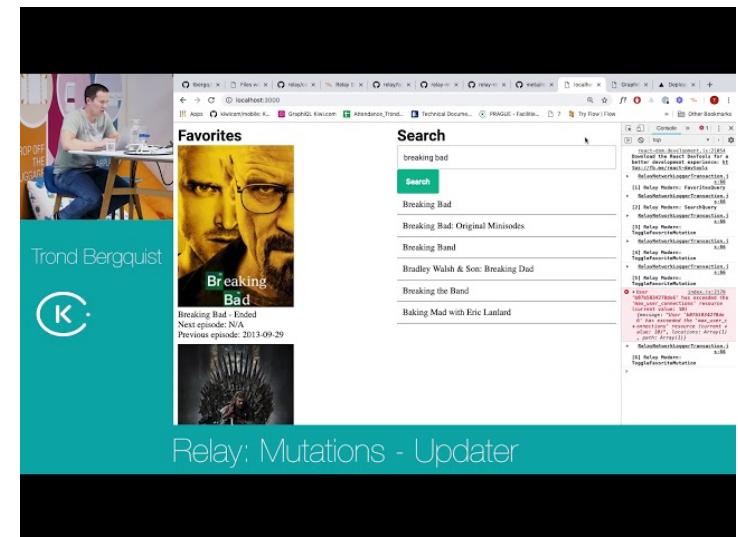
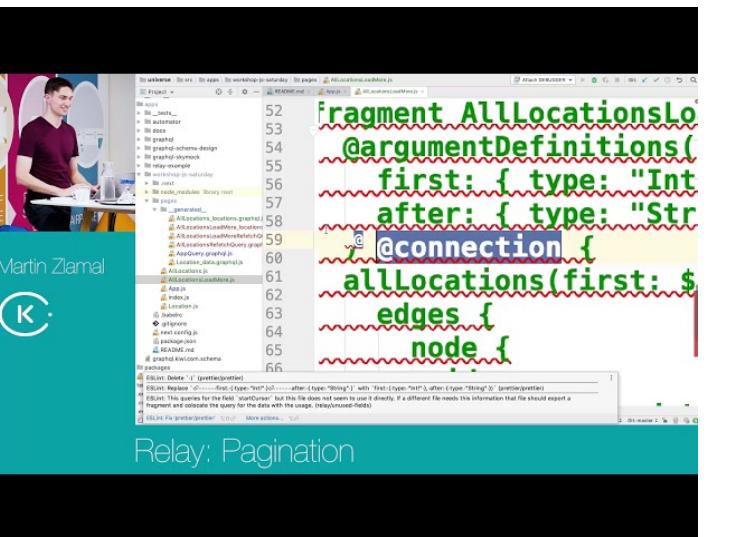
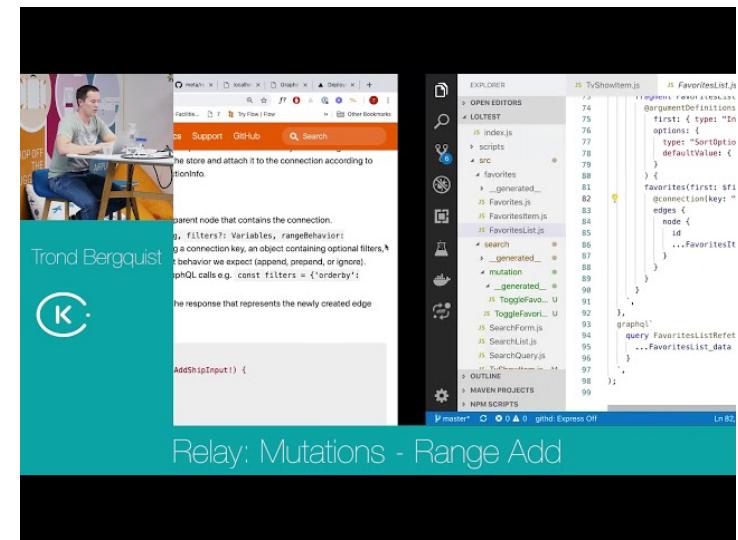
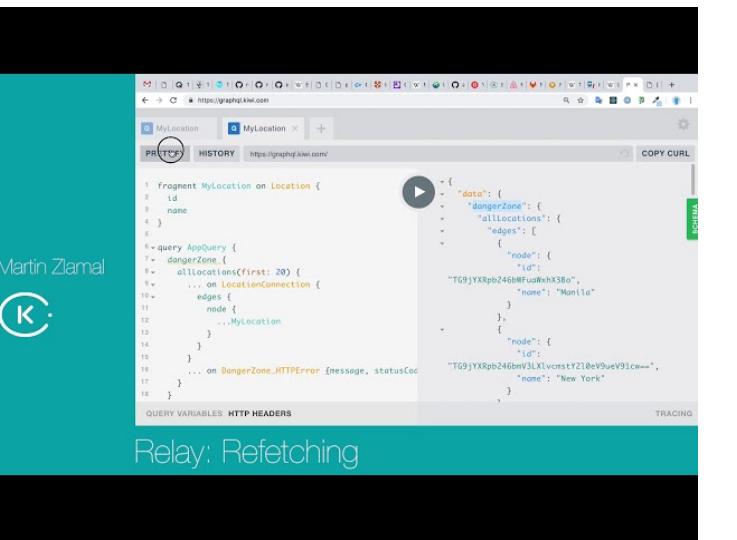
Incremental pagination 2

See: [Pagination Container](#)

1. Rome
2. Paris
3. Barcelona
4. San Francisco
5. Boston
6. Washington, D.C.
7. Denver
8. Las Vegas
9. Atlanta
10. Miami
11. Tampa
12. Orlando
13. Manila
14. New York
15. London
16. Los Angeles
17. Chicago
18. Athens International
19. Hartsfield–Jackson Atlanta International
20. Barcelona–El Prat

Load more!

RELAY TALKS



BETTER FETCH LIBRARY

@KIWICOM/FETCH

KIWI FETCH

- > RETRIES
- > TIMEOUTS
- > ERROR HANDLING

FETCH - TIMEOUT, RETRIES

```
import fetchWithRetries from '@kiwicom/fetch';

fetchWithRetries(
  'https://example.api',
  {
    fetchTimeout: 15000,
    retryDelays: [1000, 3000],
    // ... standard Fetch options
  },
);
```

FETCH - ERROR HANDLING

```
import fetchWithRetries, { TimeoutError, ResponseError } from '@kiwicom/fetch';

try {
  const response = await fetchWithRetries('://localhost');
} catch (error) {
  if (error instanceof TimeoutError) {
    console.error('request timed out');
  } else if (error instanceof ResponseError) {
    console.error('unsuccessful response', error.response);
  } else {
    console.error('unknown error');
  }
}
```

OPINIONATED ESLINT RULES

[@KIWICOM/ESLINT-CONFIG](#)

KIWI ESLINT CONFIG

- > REACT, RN, HOOKS, RELAY
 - > PRETTIER, JEST
 - > FLOW, NODE
 - > EXTENDABLE

ESLINT - SETUP

```
//.eslintrc.js
module.exports = {
  root: true,
  extends: [
    '@kiwicom/eslint-config',
  ],
};
```

ESLINT RUNNER

- > PARALLEL EXECUTION
- > ONLY CHANGED FILES
 - > AUTO FIX

michal at Michals-MacBook-Pro-2 in ~/projects/kiwi/graphql on master

```
$ yarn lint
yarn run v1.15.2
$ eslint --print-config . | yarn run eslint-config-prettier-check && yarn run jest --config=.jest-eslint.config.js
$ /Users/michal/projects/kiwi/graphql/node_modules/.bin/eslint-config-prettier-check
No rules that are unnecessary or conflict with Prettier were found.
$ /Users/michal/projects/kiwi/graphql/node_modules/.bin/jest --config=.jest-eslint.config.js
PASS  lint  src/packages/monorepo-shipit/src/__tests__/requireAndValidateConfig.test.js
PASS  lint  src/packages/monorepo-shipit/src/iterateConfigs.js
PASS  lint  src/packages/monorepo-shipit/bin/importit.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/vault2env.test.js
PASS  lint  src/packages/monorepo-shipit/bin/shipit.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/graphql-resolve-wrapper.test.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/example-relay.test.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/graphql-bc-checker.test.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/monorepo-shipit.test.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/graphql-global-id.test.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/testExportedPaths.js
PASS  lint  src/packages/monorepo-shipit/config/__tests__/babel-preset-kiwicom.test.js

RUNS  lint  src/packages/monorepo-shipit/config/__tests__/monorepo-npm-publisher.test.js
RUNS  lint  src/packages/monorepo-shipit/config/__tests__/relay.test.js
RUNS  lint  src/packages/monorepo-shipit/config/__tests__/babel-preset-kiwicom.test.js

Test Suites: 53 skipped, 11 passed, 11 of 890 total
Tests:      53 skipped, 11 passed, 64 total
Snapshots:  0 total
Time:       5s
```

BABEL PRESET

@KIWICOM/BABEL-PRESET-KIWICOM

BABEL PRESET

- > FLOW, JSX
- > CLASS PROPERTIES
- > RELAY FRAGMENTS
- > SYNTACTIC SUGAR

GITHUB.COM / KIWICOM

SHOW YOUR ❤



ONE MORE THING...

SUMMER CAMP.CZ

