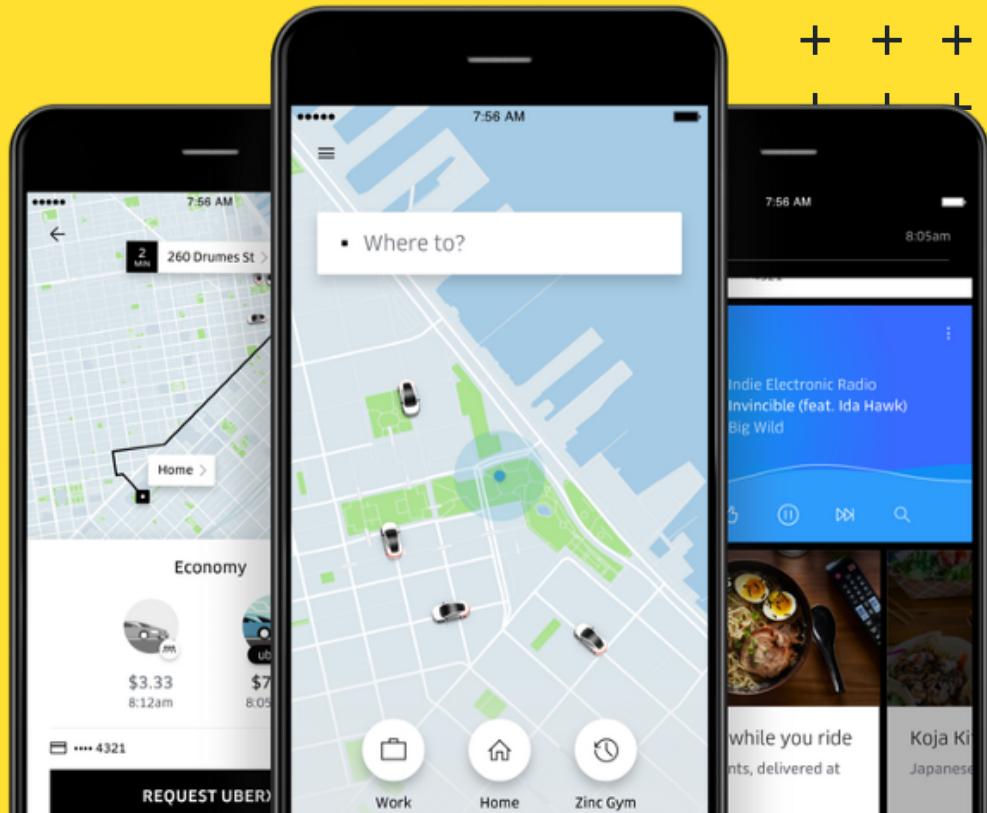


notJust

//development

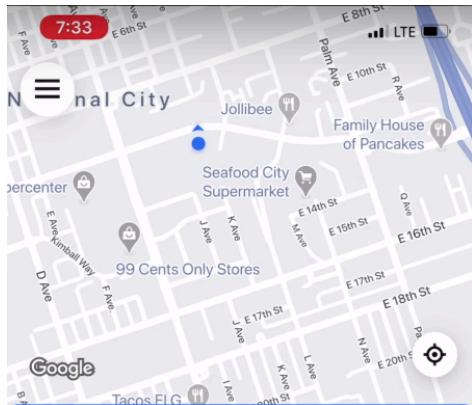
Uber Clone in React Native

Build a full stack Taxi mobile app



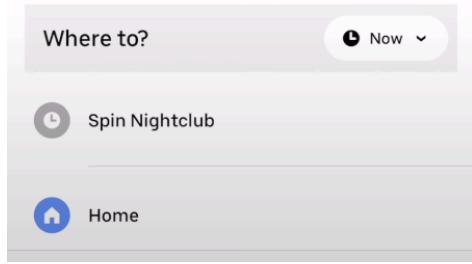
We are going to build

Home



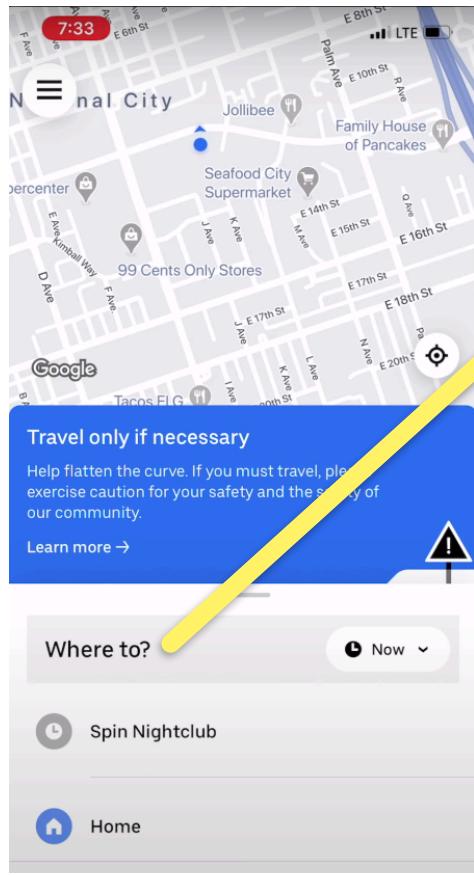
Travel only if necessary
Help flatten the curve. If you must travel, please exercise caution for your safety and the safety of our community.

[Learn more →](#)

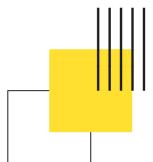
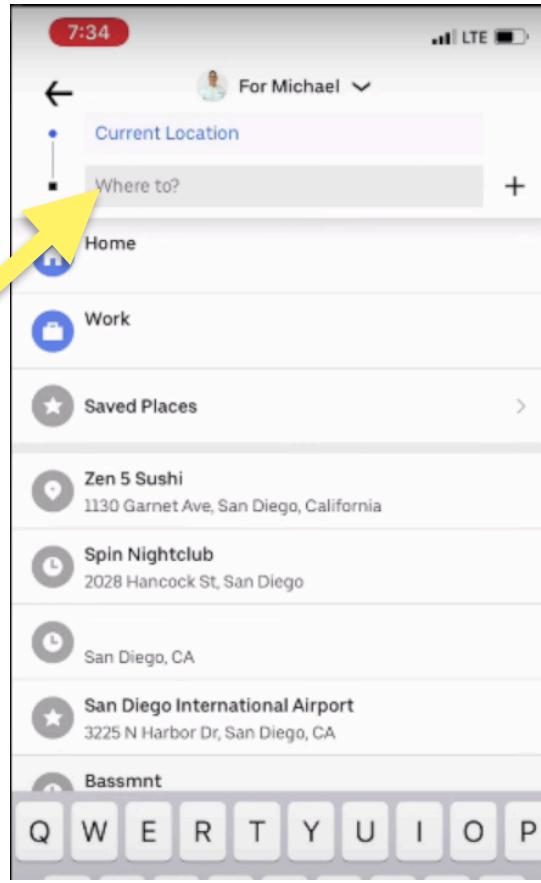


We are going to build

Home

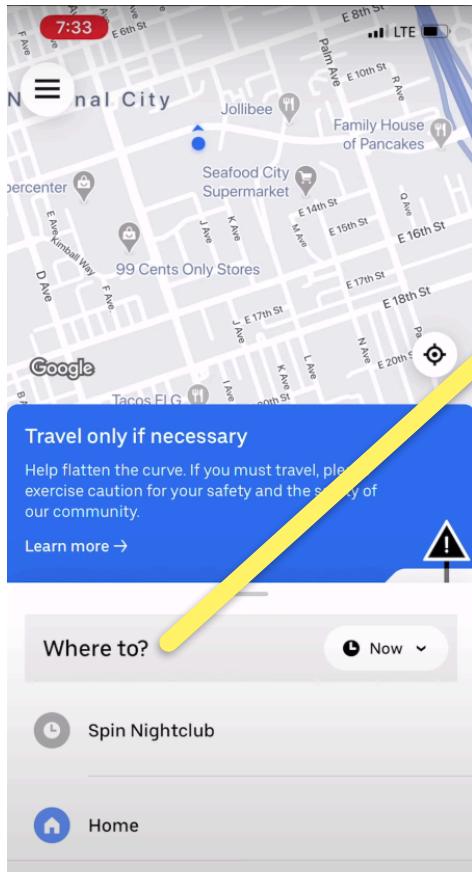


Search Page

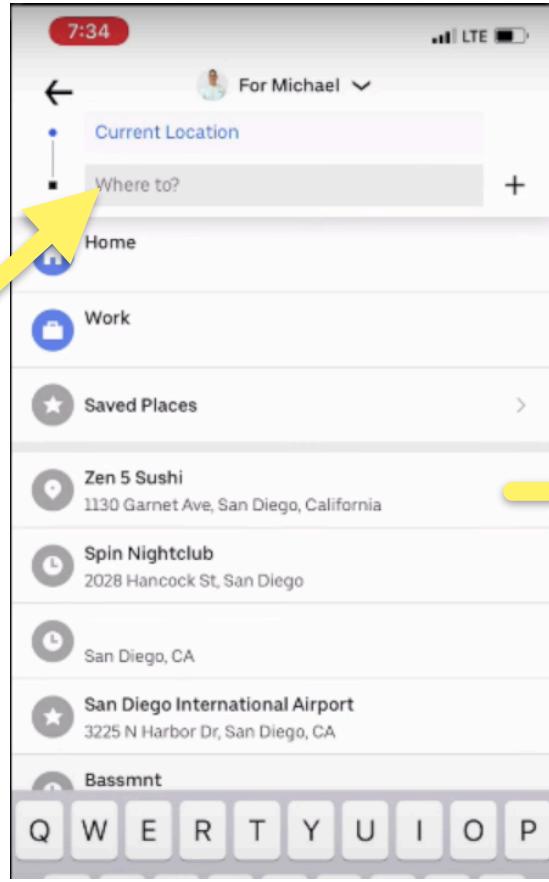


We are going to build

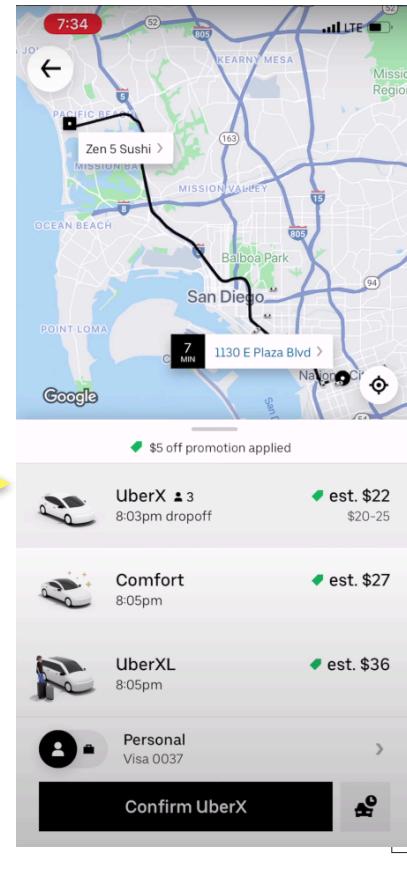
Home



Search Page

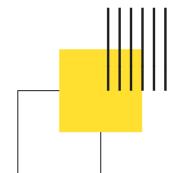
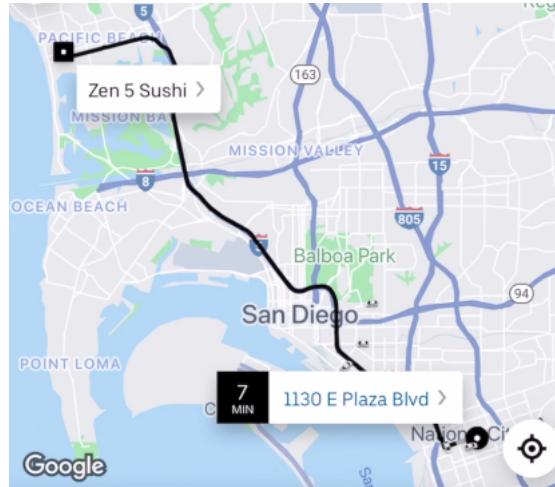


Route Confirmation



We are going to build

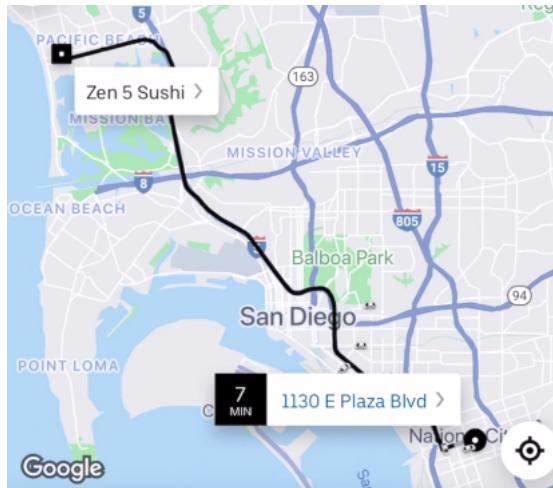
Maps & Directions



We are going to build

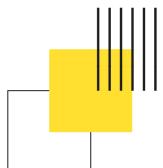
Google Autocomplete

Maps & Directions



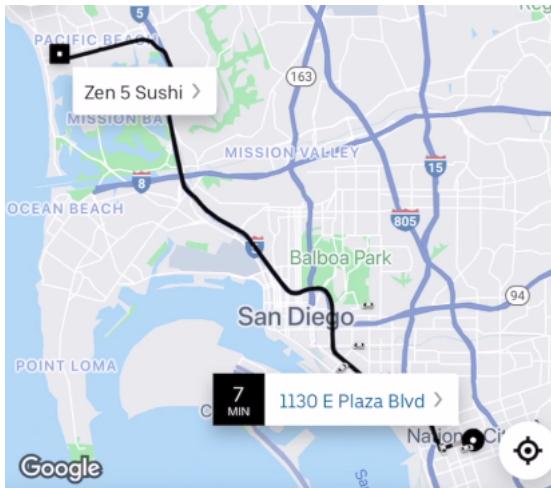
Zen 5

- Zen 5 Sushi
1130 Garnet Ave, San Diego, California
- 53 Zen Gdn
Irvine, California
- 50 Zen Gdn
Irvine, California
- 57 Zen Gdn
Irvine, California
- 55 Zen Gdn
Irvine, California
- Set location on map

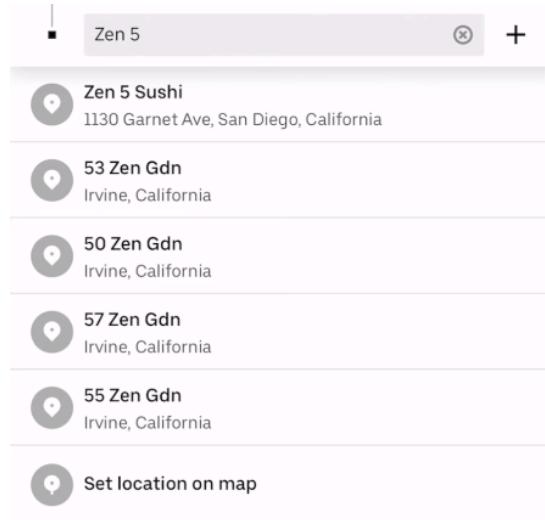


We are going to build

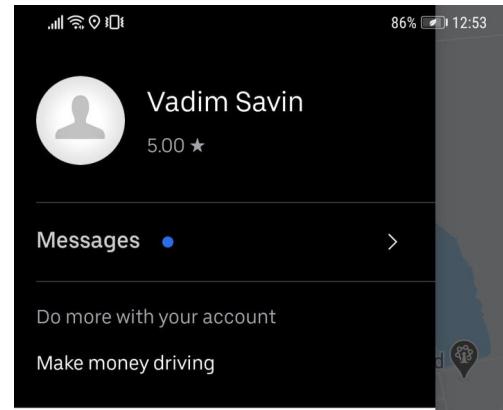
Maps & Directions



Google Autocomplete



Drawer Navigator (Hamburger menu)



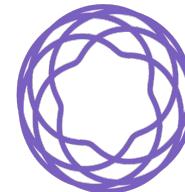
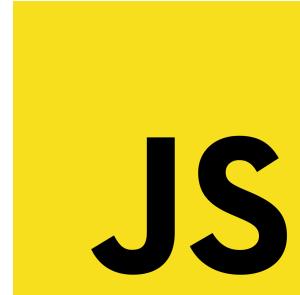
Your trips

Help

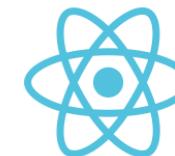
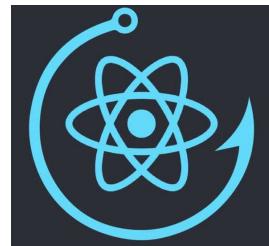
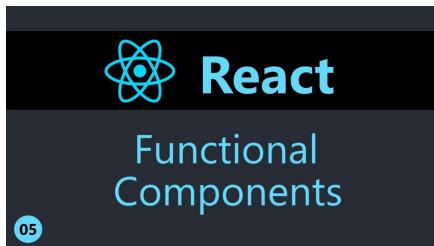
Wallet

Settings

Front-end technologies



React Navigation



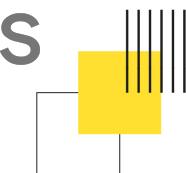
Vector Icons



Choose from 3K+ icons or use your own



Google Maps



You will learn

- ||| - How to setup a React Native project
- ||
- ||
- ||
- ||
- ||
- ||



You will learn

- How to setup a React Native project
- Render built-in elements/components



You will learn

- ||| - How to setup a React Native project
- ||| - Render built-in elements/components
- ||| - Create your own components



You will learn

- ||| - How to setup a React Native project
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- ||| - Functional components
- |||
- |||
- |||
- |||
- |||



You will learn

- ||| - How to setup a React Native project
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- ||| - Functional components
- ||| - Props

- | |

- |||

- |||



You will learn

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- ||| - Props
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You will learn

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- ||| - State
- ||| - Navigation
- |||
- |||



You will learn

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- ||| - Create your own components
- ||| - Functional components
- ||| - Props
- ||| - State
- ||| - Navigation
- ||| - Install 3rd party libraries



You will learn

- ||| - How to setup a React Native project
- ||| - Render built-in elements/components
- ||| - Create your own components
- ||| - Functional components
- ||| - Props
- ||| - State
- ||| - Navigation
- ||| - Install 3rd party libraries
- ||| - Work with Google Maps, Google Places API
- |||



Who am I



- Full stack developer for >7yrs
- CTO @Fitinium
- ex Amazon SDE
- Passionate about coding and building impactful startups.



Prerequisites

1. React Native environment set up
2. Google developer account
3. Dummy data, images, icons, PDF presentation:
<https://assets.notjust.dev/uber>

notJust

//development



Let's get started



Let's get started

Initialise the RN project:

```
$ npx react-native init Uber
```

||| Run the development server

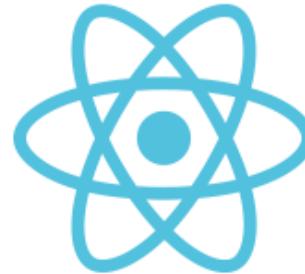
```
$ yarn start           $ npm start
```

||| Run the app on iOS

```
$ yarn ios            $ npm run ios
```

||| Run the app on android

```
$ yarn android        $ npm run android
```



Vector Icons



Choose from 3K+ icons or use your own

Vector icons

Install vector icons

```
$ yarn add react-native-vector-icons
```

```
$ npm install react-native-vector-icons
```



IOS: Add UIAppFonts to Info.plist



Android: Add to the android/app/build.gradle



```
apply from: "../../node_modules/react-native-vector-icons/fonts.gradle"
```



Install pods (iOS only)



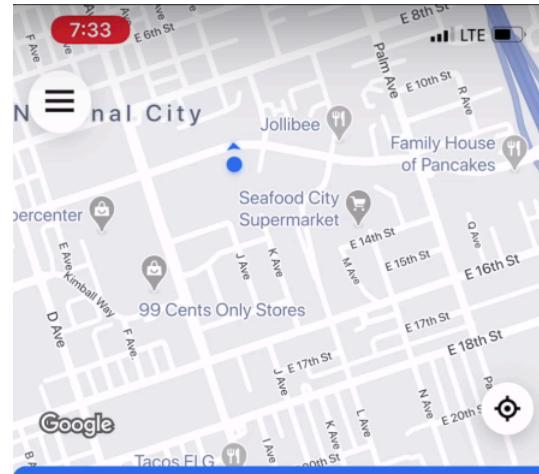
```
$ npx pod-install
```



Home Screen



- Dummy Map component
- Message Box
- Where to? Component



Travel only if necessary

Help flatten the curve. If you must travel, please exercise caution for your safety and the safety of our community.

[Learn more →](#)



Where to?

Now



Spin Nightclub



Home



302 pts

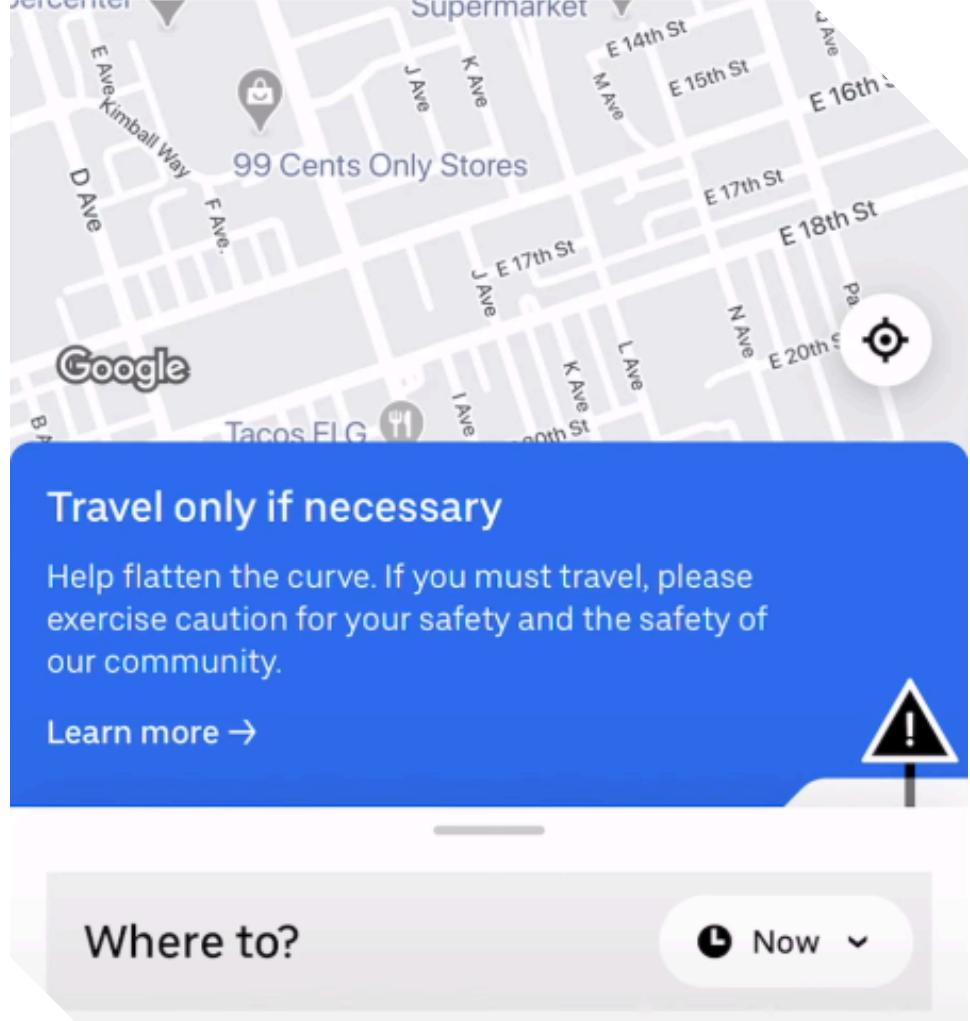
Rewards Hub



Home Screen



- Dummy Map component
- **Message Box**
- Where to? Component

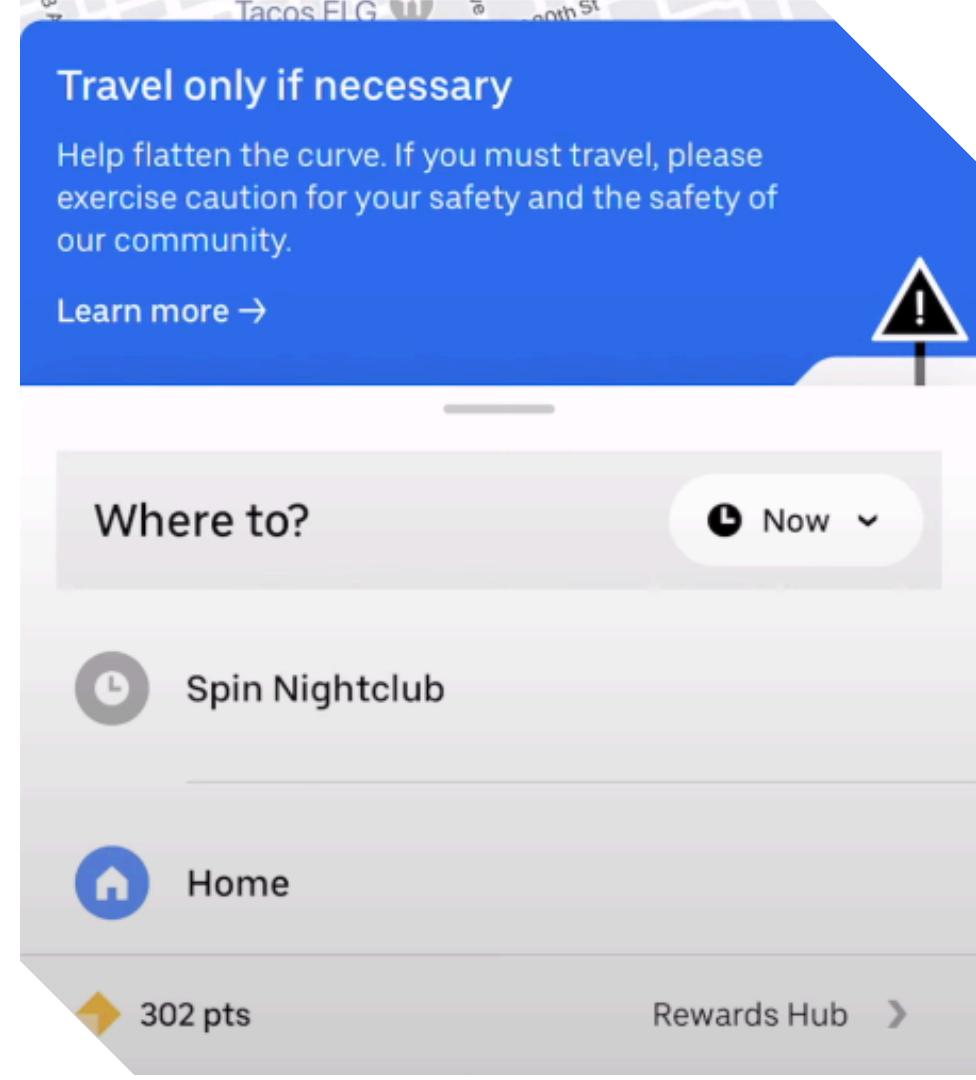




Home Screen



- Dummy Map component
- Message Box
- **Where to? Component**

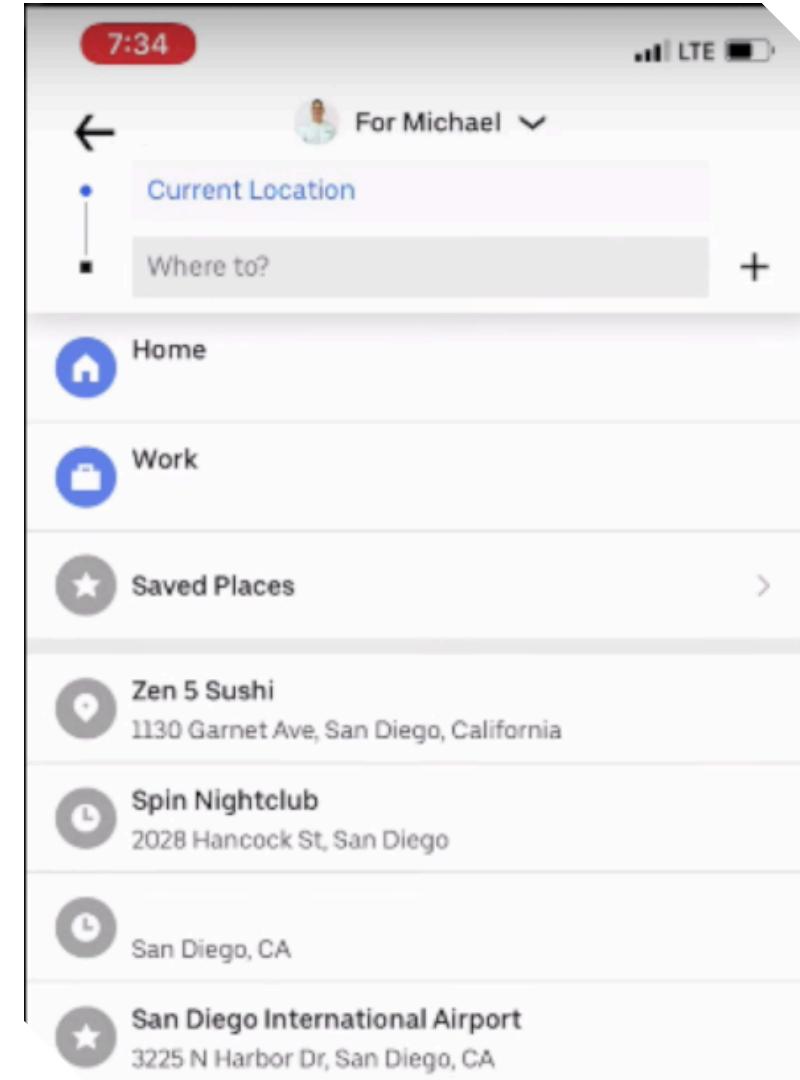




Search Page



- Location input boxes
- Default locations (Home, Work)
- Location row



Places Autocomplete



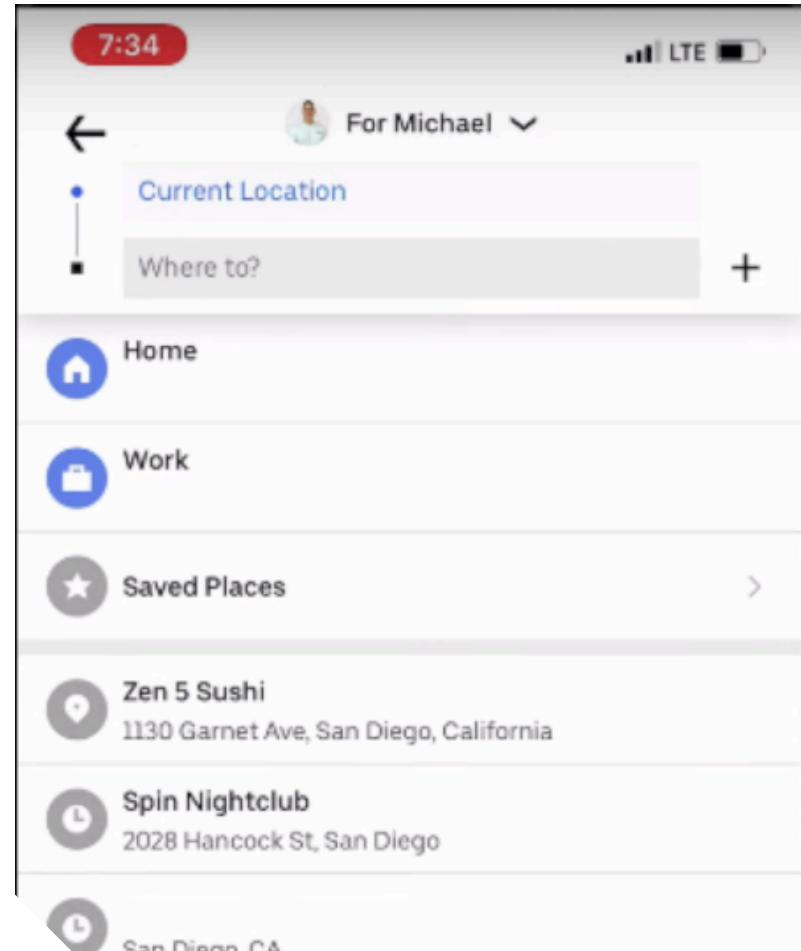
Library: **React Native Google Places Autocomplete**



<https://www.npmjs.com/package/react-native-google-places-autocomplete>



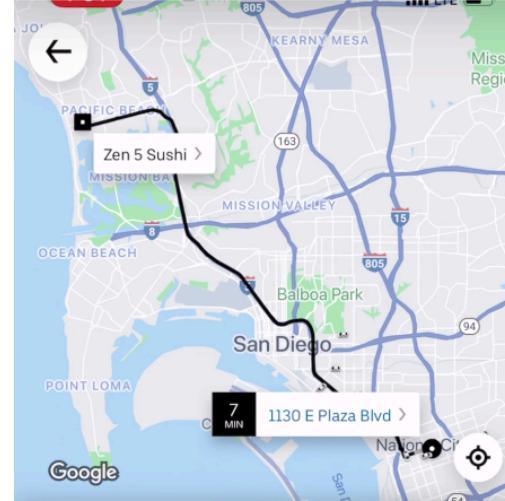
1. install library
2. Enable google API
3. Make sure billing is enabled
4. Get API Key



Search Result



- Dummy Map view
- List of Uber cars
- Confirm Uber ride



\$5 off promotion applied

	UberX • 3 8:03pm dropoff	est. \$22 \$20-25
	Comfort 8:05pm	est. \$27
	UberXL 8:05pm	est. \$36
	Personal Visa 0037	

Confirm UberX

Maps

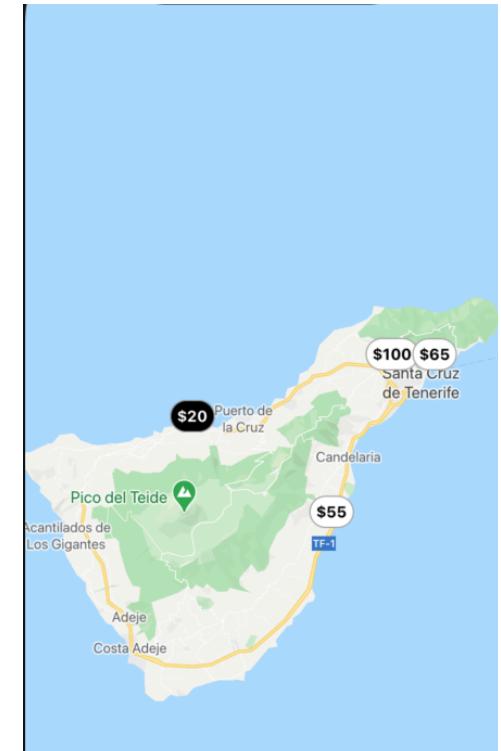


Library: **React Native Maps**

<https://www.npmjs.com/package/react-native-maps>



1. install library
2. Enable google API
3. Make sure billing is enabled
4. Get API Key



Maps Directions



Library: **React Native Maps Directions**



<https://www.npmjs.com/package/react-native-maps-directions>



```
latitude: 37.790790,  
longitude: -122.442753,  
  
latitude: 37.790651,  
longitude: -122.422497,  
  
GOOGLE_MAPS_APIKEY = '...';  
  
RNMapsDirectionsExample extends Component {  
  render() {  
    <MapView initialRegion={initialRegion} style={StyleSheet.absoluteFillObject}>  
      <MapView.Marker coordinate={coordinates[0]} />  
      <MapView.Marker coordinate={coordinates[1]} />  
      <MapViewDirections  
        origin={coordinates[0]}  
        destination={coordinates[1]}  
        apikey={GOOGLE_MAPS_APIKEY}  
        strokeWidth={3}  
        strokeColor="hotpink"  
      />  
    </MapView>  
  
    default RNMapsDirectionsExample;
```

Navigation

Install React-Navigation Library:

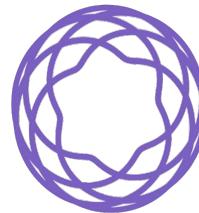
Installing Dependencies

Install the pods (for Mac and IOS only)

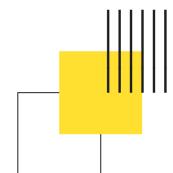
```
$ npx pod-install ios
```

Import Gesture handler

```
Import 'react-native-gesture-handler'
```



React Navigation



notJust

//development



DEMO



notJust
//development



Q&A



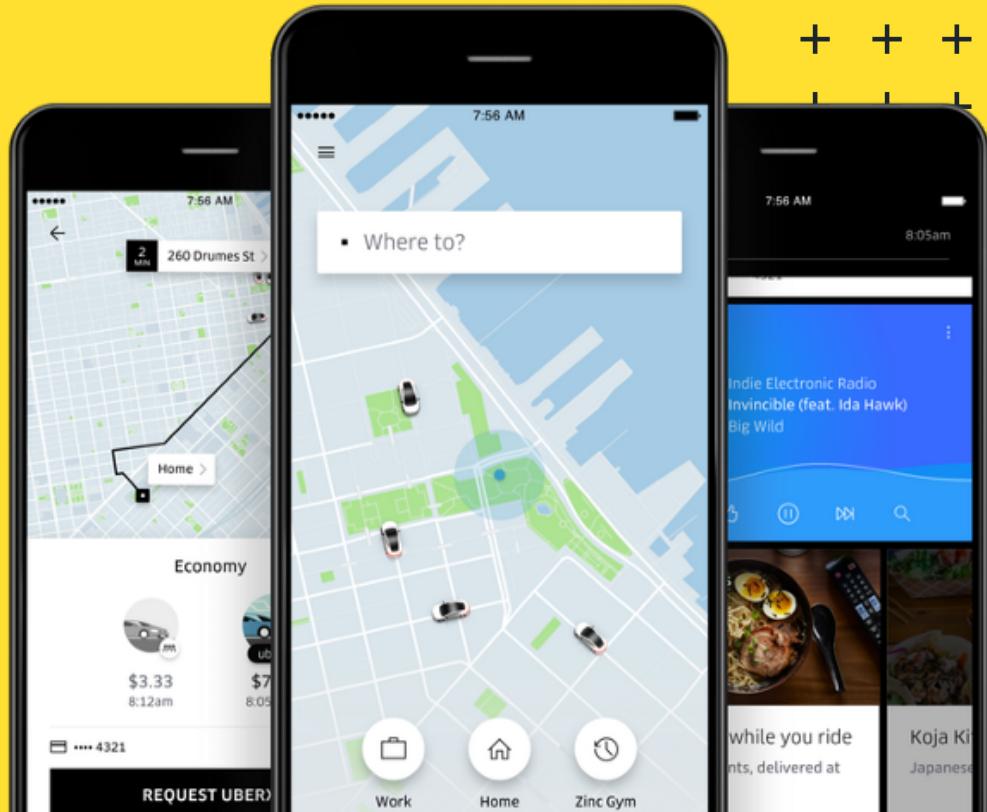
notJust

//development

Uber Clone in React Native

Part 2

Advanced UI and GPS Tracking



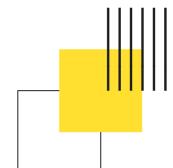
We are going to build

Places Autocomplete

(Custom styles, current location, predefined location, etc.)

The screenshot shows a mobile application interface. At the top is a search bar with the text "Tene" and an "x" button. Below it is a placeholder text "Where to?". A list of suggestions follows:

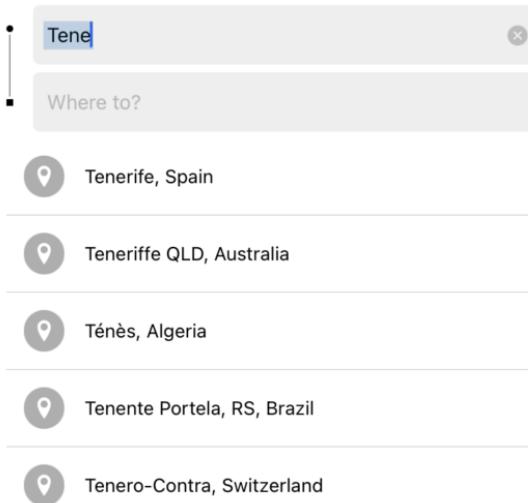
- Tenerife, Spain
- Teneriffe QLD, Australia
- Ténès, Algeria
- Tenente Portela, RS, Brazil
- Tenero-Contra, Switzerland



We are going to build

Places Autocomplete

(Custom styles, current location, predefined location, etc.)



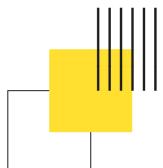
GEO Tracking

Current user location & direction-aware car-markers



Travel only if necessary

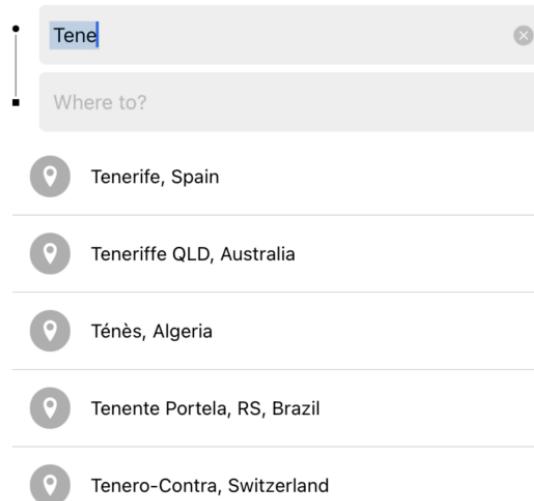
Upgrading this package often requires the font files linked to your projects to be updated as well. If the automatic linking works for you, running this again should update the fonts.



We are going to build

Places Autocomplete

(Custom styles, current location, predefined location, etc.)



GEO Tracking

Current user location & direction-aware car-markers

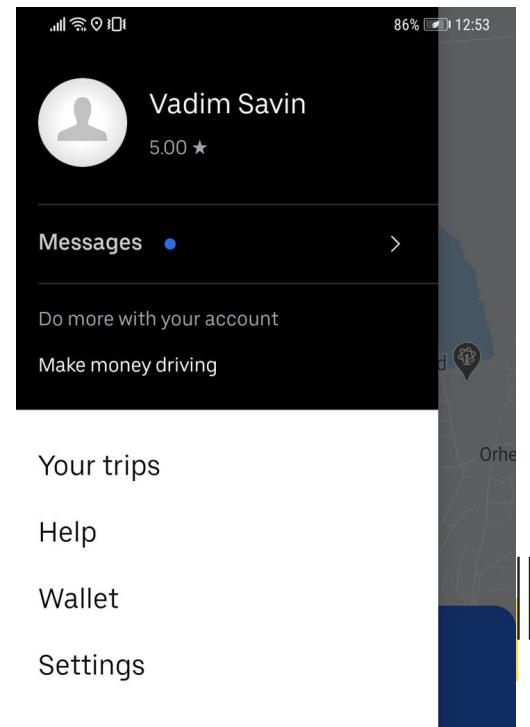


Travel only if necessary

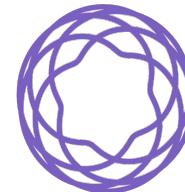
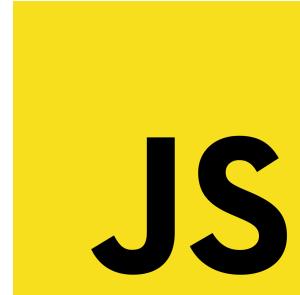
Upgrading this package often requires the font files linked to your projects to be updated as well. If the automatic linking works for you, running this again should update the fonts.

Navigation

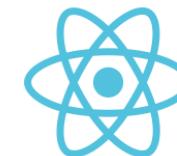
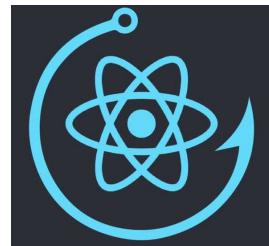
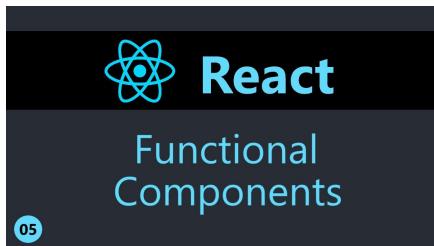
Simple navigation between screens
Custom Drawer navigation



Front-end technologies



React Navigation



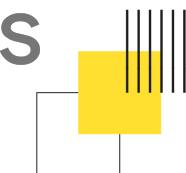
Vector Icons



Choose from 3K+ icons or use your own



Google Maps



You will learn

- Work with and Customise the Maps



You will learn

- Work with and Customise the Maps
- Customise the Google Places Autocomplete



You will learn

- Work with and Customise the Maps
- Customise the Google Places Autocomplete
- Track user location (Realtime)



You will learn

- ||| - Work with and Customise the Maps
- ||| - Customise the Google Places Autocomplete
- ||| - Track user location (Realtime)
- ||| - Suggest nearby places



You will learn

- ||| - Work with and Customise the Maps
- ||| - Customise the Google Places Autocomplete
- ||| - Track user location (Realtime)
- ||| - Suggest nearby places
- ||| - Basic Navigation
- |||
- |||
- |||



You will learn

- ||| - Work with and Customise the Maps
- ||| - Customise the Google Places Autocomplete
- ||| - Track user location (Realtime)
- ||| - Suggest nearby places
- ||| - Basic Navigation
- ||| - Drawer Navigation (Hamburger menu)
- |||
- |||



notJust

//development

Who am I



- Full stack developer for >7yrs
- CTO @Fitinium
- ex Amazon SDE
- Passionate about coding and building impactful startups.

I AM notJust
//developer



Prerequisites

1. React Native environment set up
2. Google developer account
3. Dummy data, images, icons, PDF presentation:
<https://assets.notjust.dev/uber>



Starting point

1. Part 1





Starting point

1. Part 1



Didn't follow part 1, but want to follow along now?

2. Clone the repo: <https://github.com/Savinvadim1312/UberClone/tree/part-1>
3. Create a google developer account, create a project, and enable all these APIs
4. Get an API key from Credentials page, and replace the old API key from the whole project, with your new API key (5 files) (Search for "AlzaSyB1KoK7KQe0YzwScTNjC7IHRSi7my056bk")
5. Install all the libraries
6. Run the project



Enabled APIs

Select an API to view details. Figures are for the last 30 days.

API ↑	Requests
Directions API	208
Geocoding API	0
Maps SDK for Android	2
Maps SDK for iOS	21
Places API	834



notJust

//development



DEMO Part 1



notJust

//development



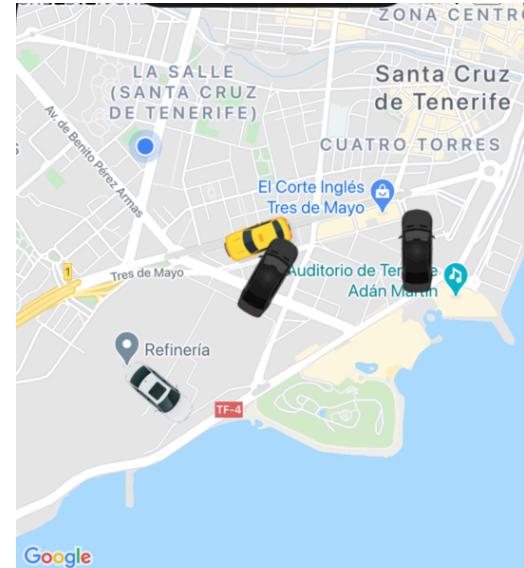
Let's get started



Maps: Marker direction

||| Rotate the cars in the direction of their movement

|| - make sure all images (assets) are facing up



Travel only if necessary

Upgrading this package often requires the font files linked to your projects to be updated as well. If the automatic linking works for you, running this again should update the fonts.

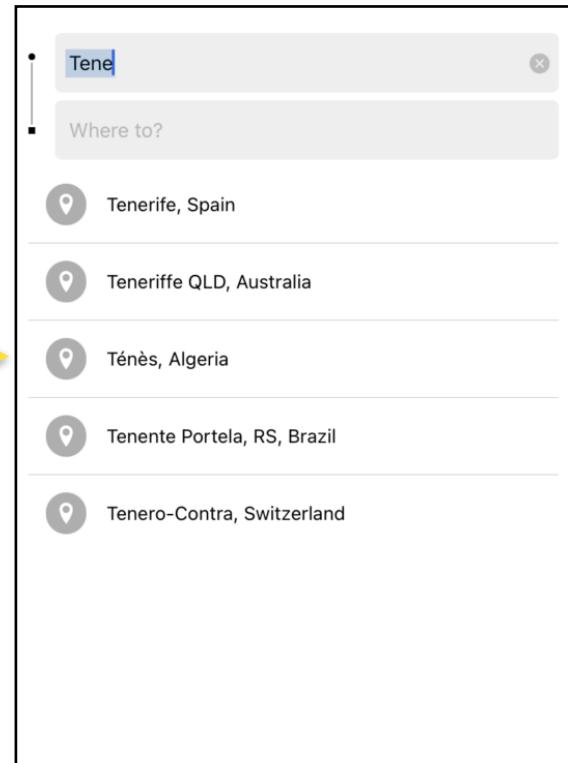
Places Autocomplete

notJust
//development

From



To



Places Autocomplete styles



Tene ×

Where to?

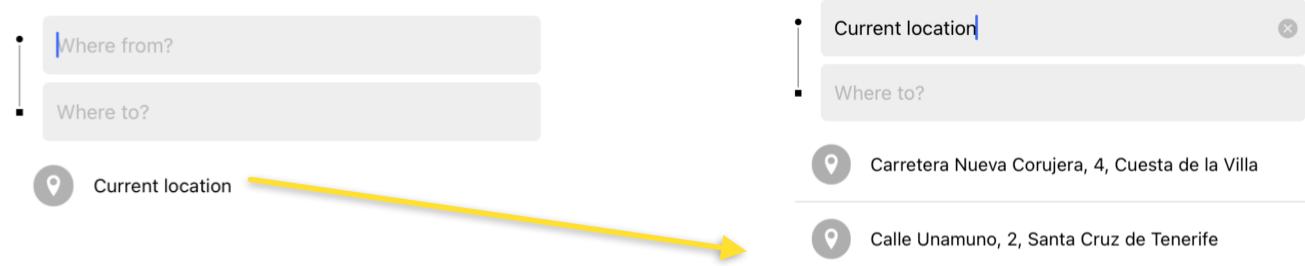
Tenerife, Spain

Teneriffe QLD, Australia

Ténès, Algeria

Tenente Portela, RS, Brazil

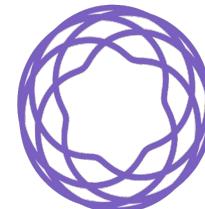
Tenero-Contra, Switzerland



Places Autocomplete Current Location

- Install Geolocation
- Request Permission to use Location
- Use the location in Places autocomplete component
- Add Predefined Location (HOME, WORK) ?

Navigation



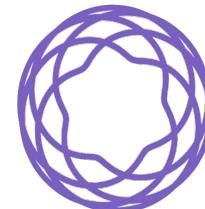
React Navigation



- Install React-Navigation library and follow the installation guide



Navigation



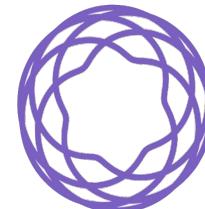
React Navigation



- Install React-Navigation library and follow the installation guide
- Defined all the screens in a Stack Navigator



Navigation

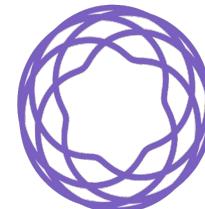


React Navigation

- ||| - Install React-Navigation library and follow the installation guide
- ||| - Defined all the screens in a Stack Navigator
- ||| - Implement the Navigation between screens



Navigation



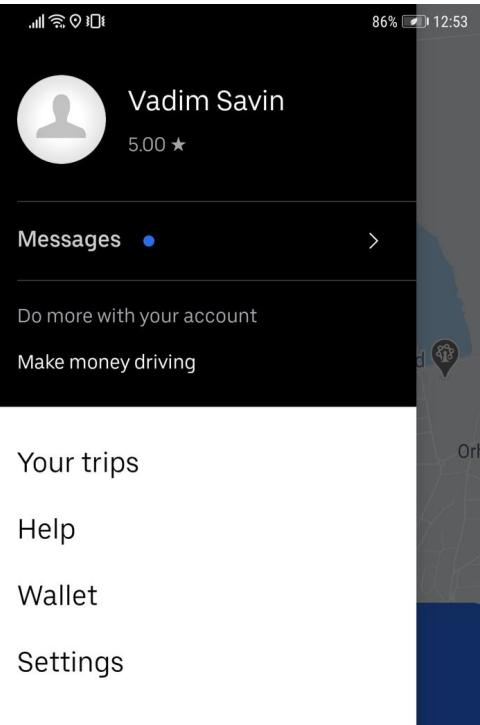
React Navigation

- ||| - Install React-Navigation library and follow the installation guide
- ||| - Defined all the screens in a Stack Navigator
- ||| - Implement the Navigation between screens
- ||| - Send data between screens
- ||
- ||
- ||
- |||

Drawer Navigation



- Install Drawer Navigation package



Your trips



Help



Wallet

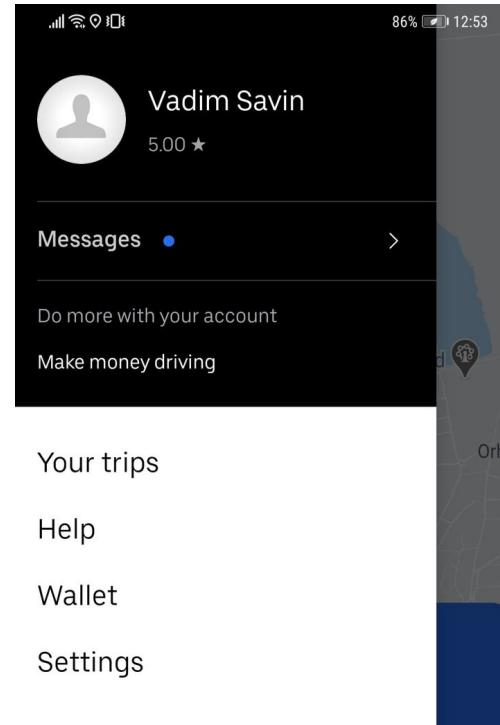


Settings

Drawer Navigation



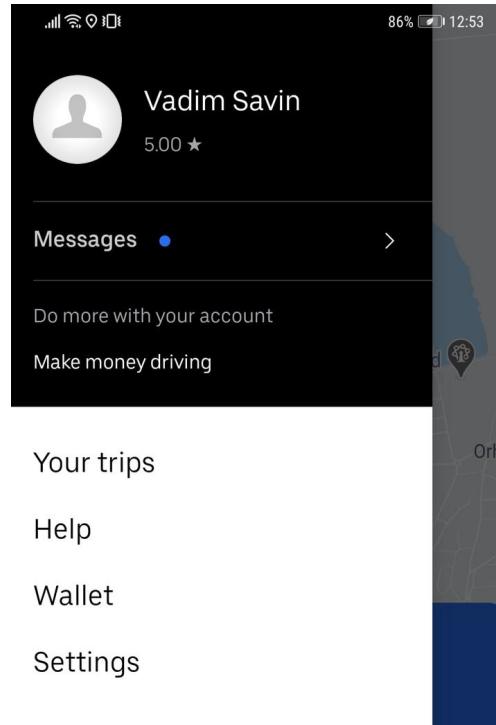
- Install Drawer Navigation package
- Setup Basic Drawer Navigation



Drawer Navigation



- Install Drawer Navigation package
- Setup Basic Drawer Navigation
- Customise the Drawer Navigation



notJust
//development



Q&A



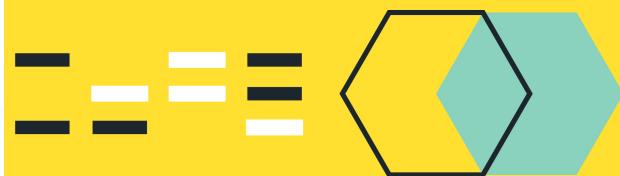
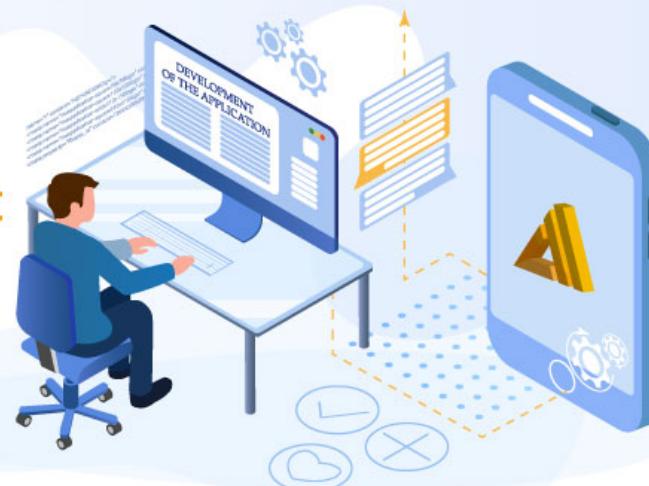


React Native AWS Backend

Authentication, GraphQL API

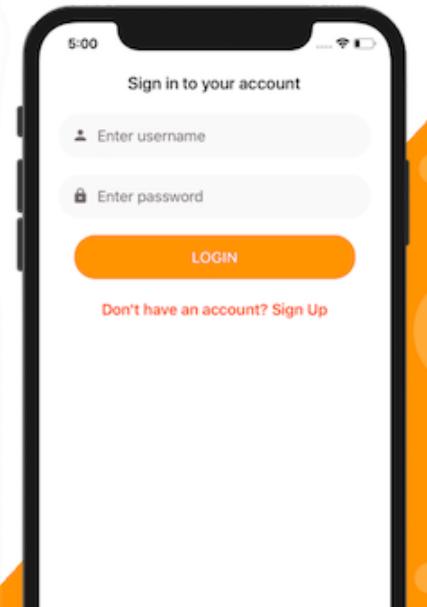
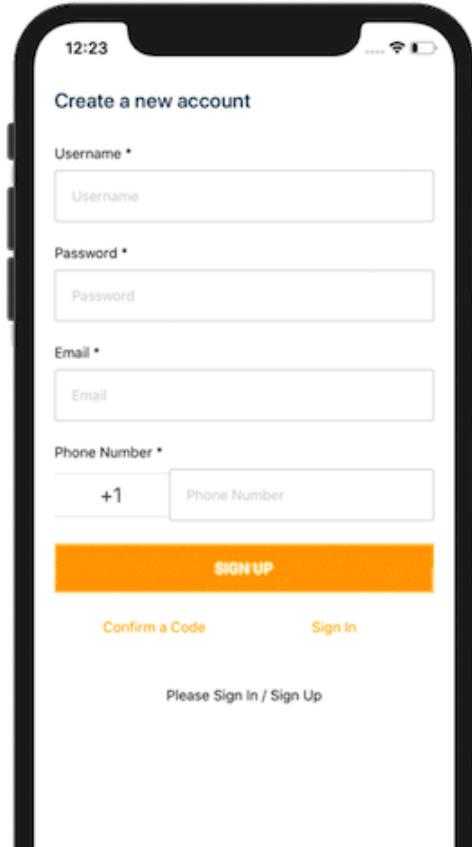
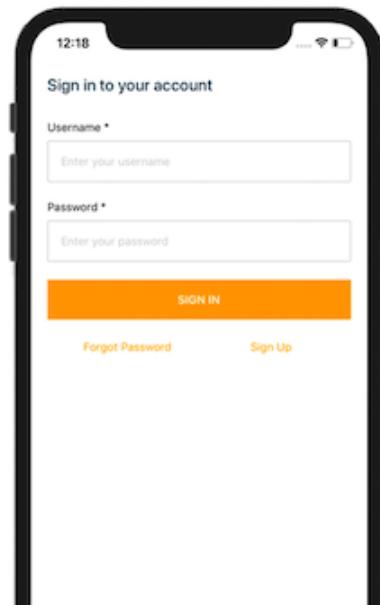
 AWS Amplify

For Next-Gen
App Development

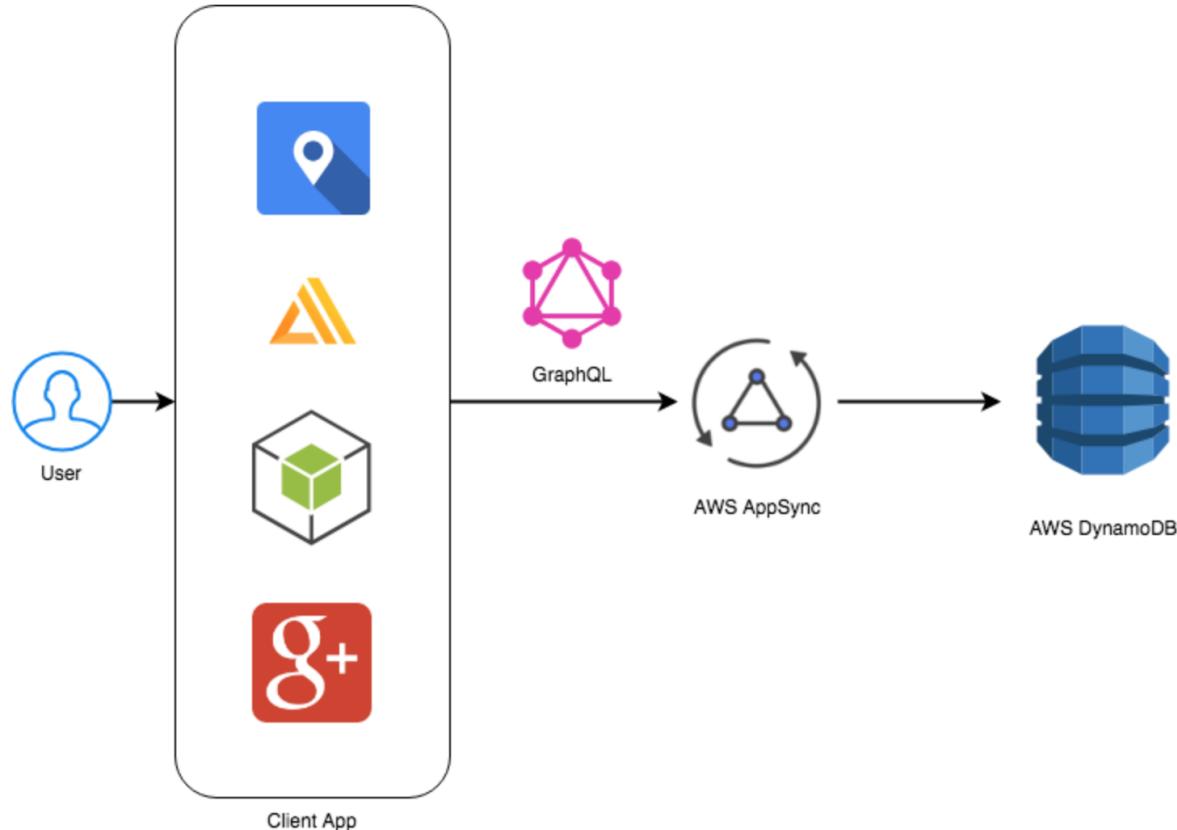




Authentication



GraphQL API



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Who am I



- Full stack developer for >7yrs
- CTO @Fitinium
- ex Amazon SDE
- Passionate about coding and building impactful startups.

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New channel members



it is now



sambulo senda

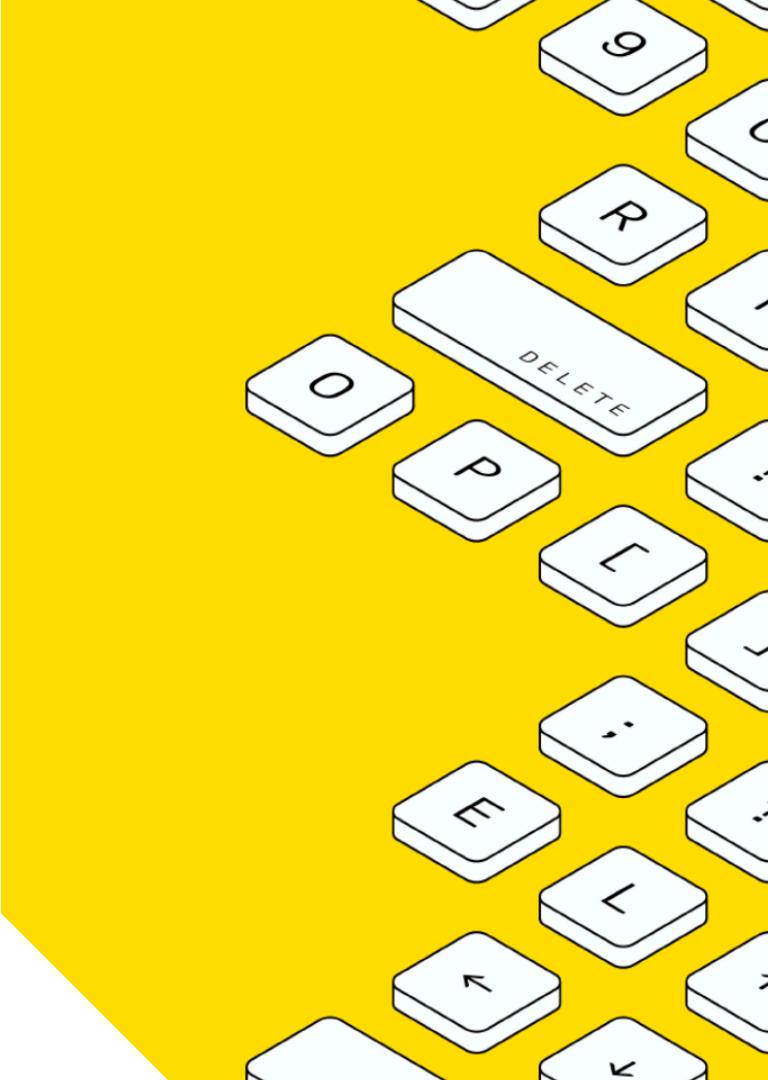


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Membership

Vadim Savin

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notJust Developer Junior €1.99/month	€1.99/month
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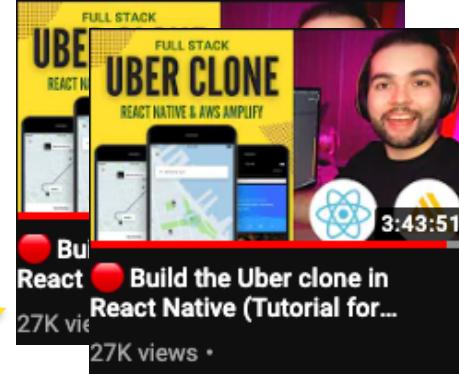
Prerequisites

1. AWS Account
2. Dummy data, images, icons, PDF presentation, code snippets:

<https://assets.notjust.dev/uber>

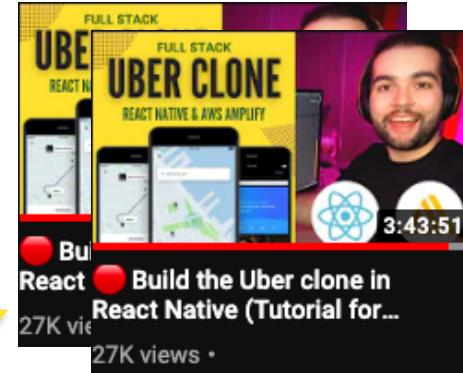
Starting point

1. Part 1 & Part 2



Starting point

1. Part 1 & Part 2



API ↑	Requests
Directions API	208
Geocoding API	0
Maps SDK for Android	2
Maps SDK for iOS	21
Places API	834

- ||| Didn't follow part 1 & 2, but want to follow along now?
2. Clone the repo: <https://github.com/Savinvadim1312/UberClone/tree/part-2>
 3. Create a google developer account, create a project, and enable all these APIs
 4. Get an API key from Credentials page, and replace the old API key from the whole project, with your new API key (5 files)
 5. Install all the libraries
 6. Run the project
- |||



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DEMO Part 1



Setup AWS Amplify Project

```
||| https://docs.amplify.aws/start/q/integration/react-native
```

```
||| $ amplify init
```

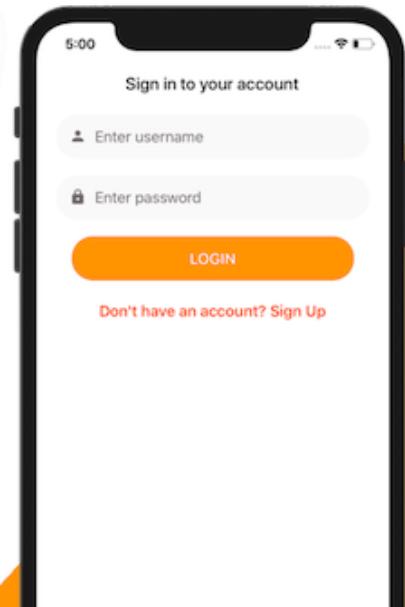
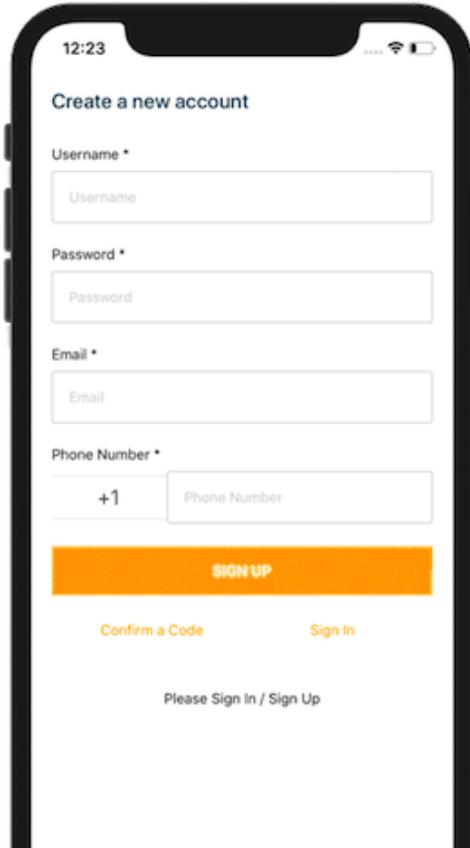
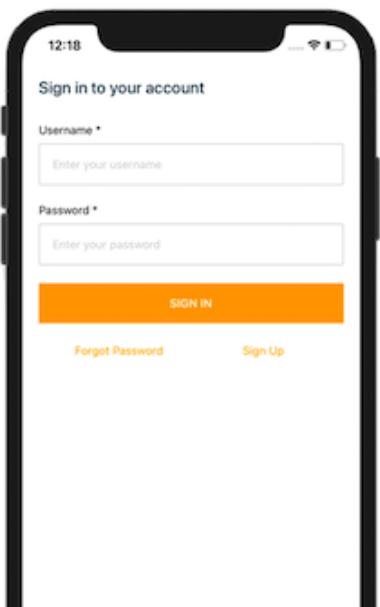
```
||| $ yarn add aws-amplify aws-amplify-react-native amazon-cognito-identity-js @react-native-community/netinfo
```

```
||| Configure the App.js
```





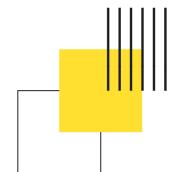
Authentication



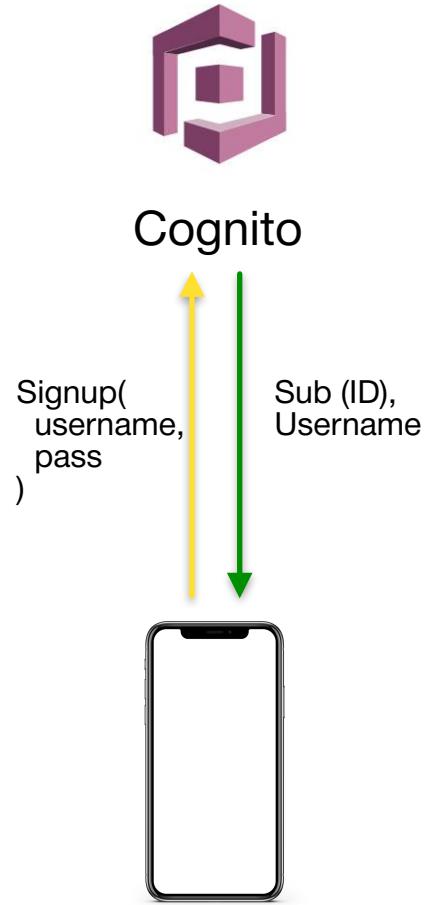
How does it work?



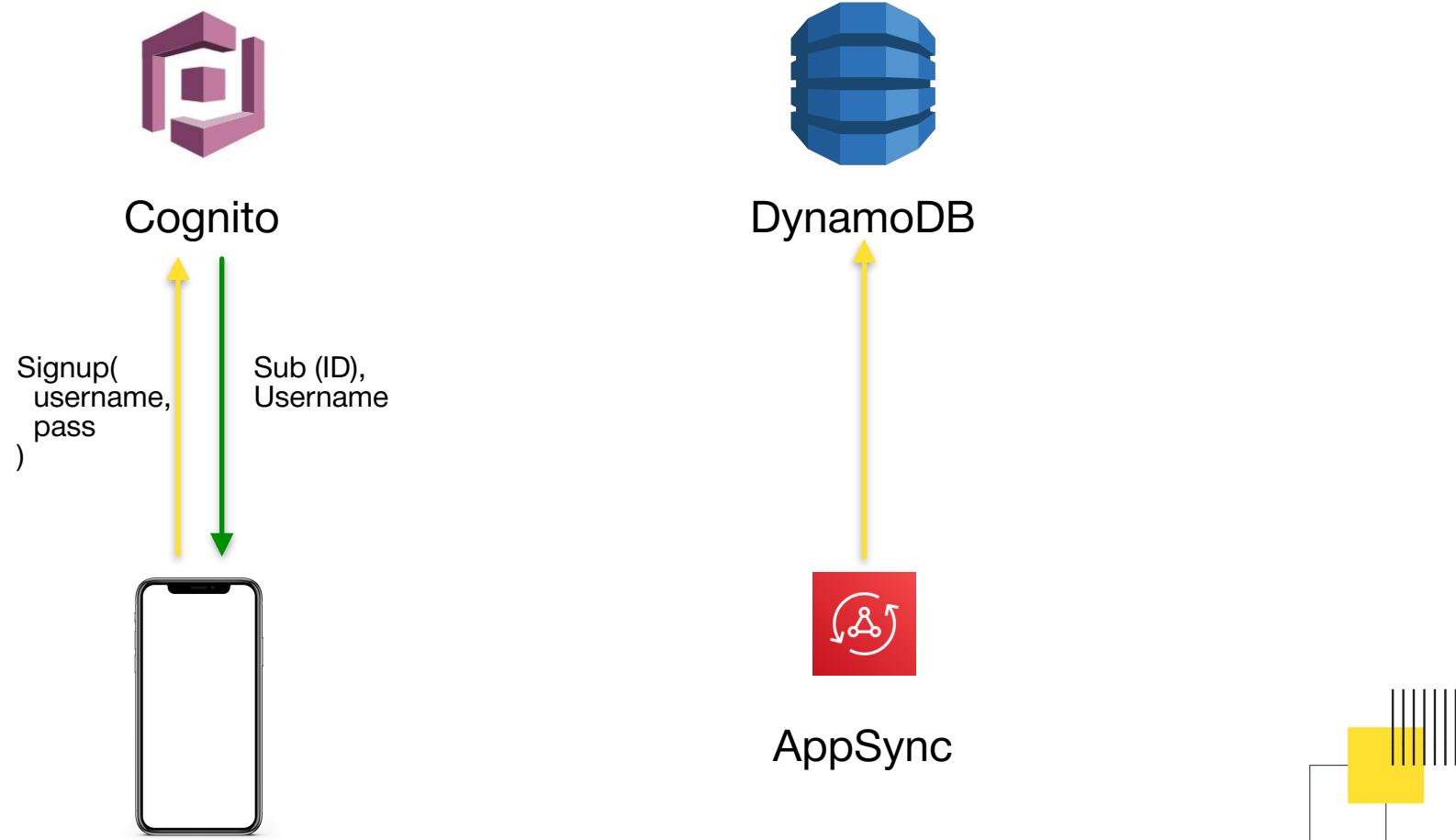
Cognito



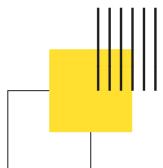
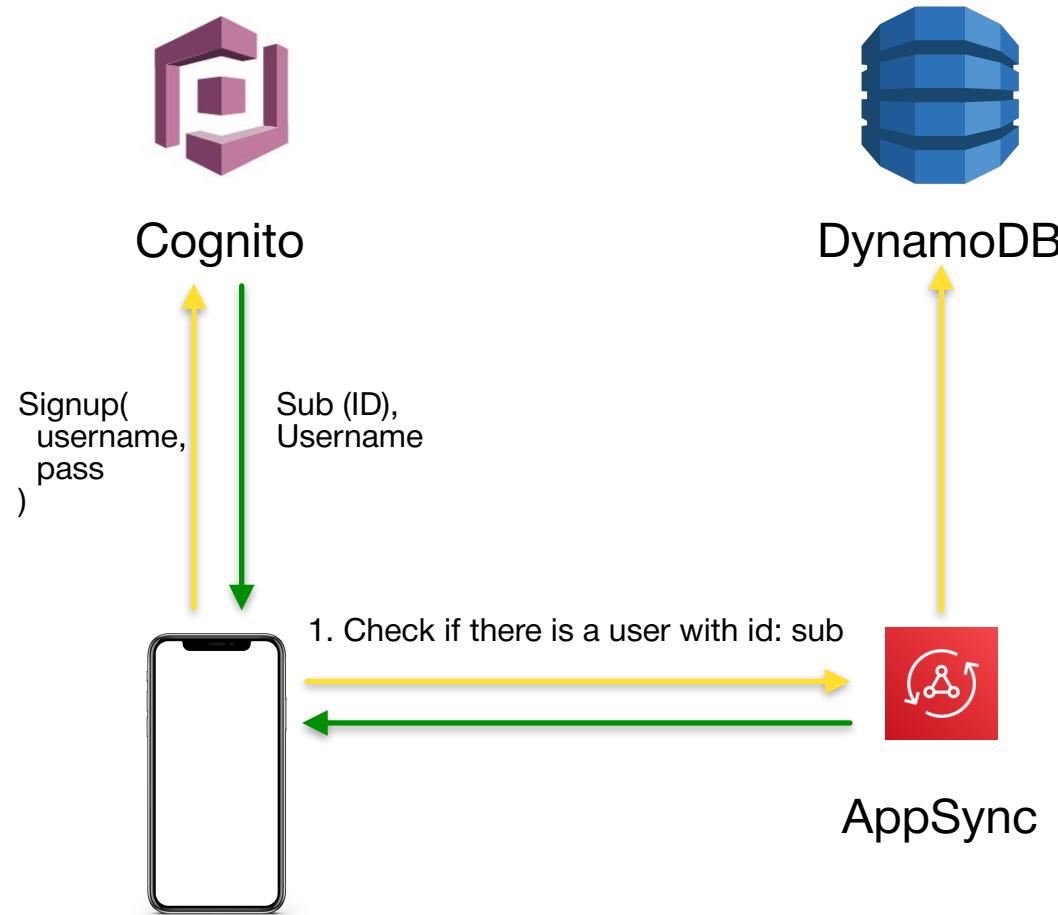
How does it work?



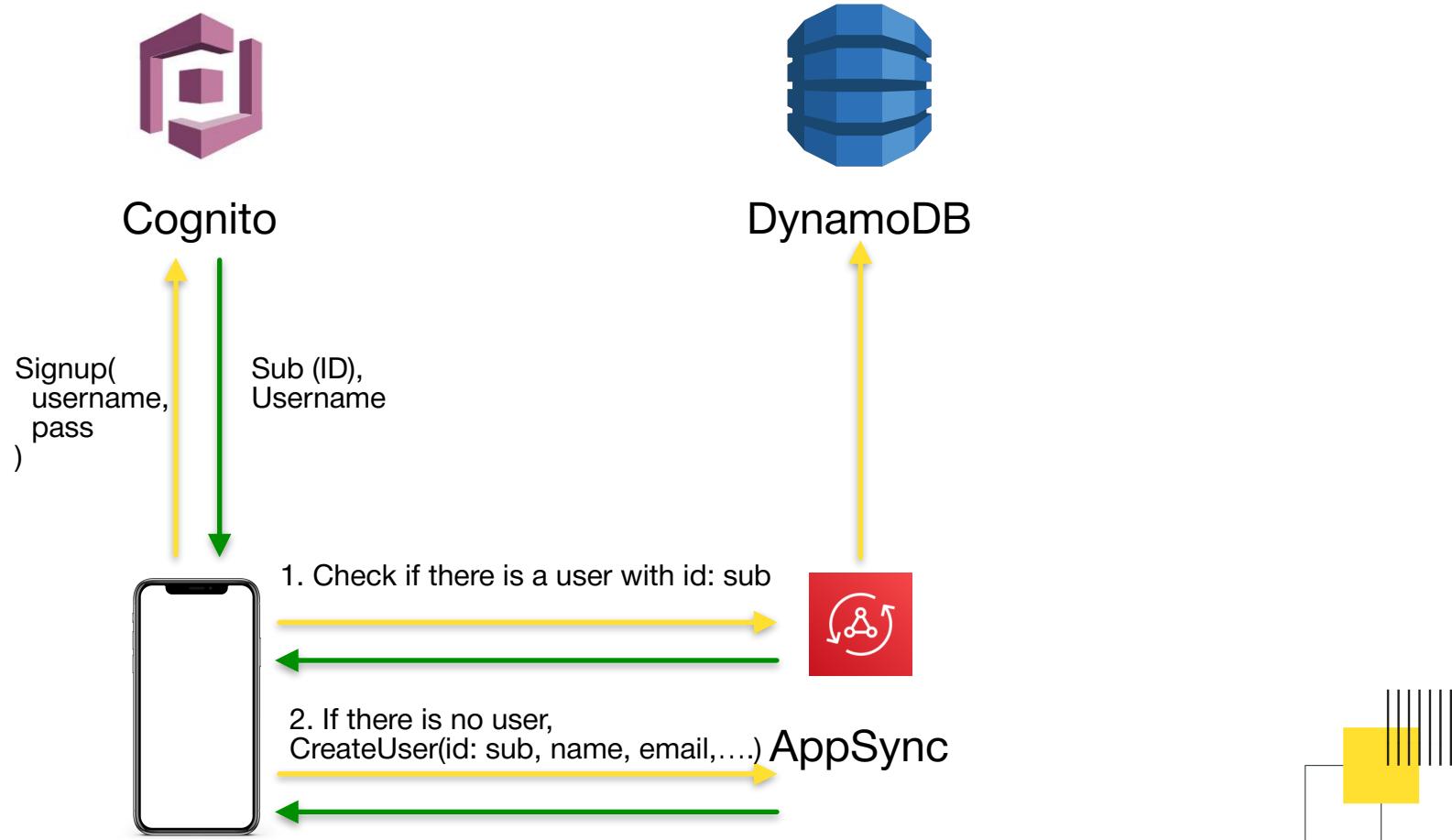
How does it work?



How does it work?



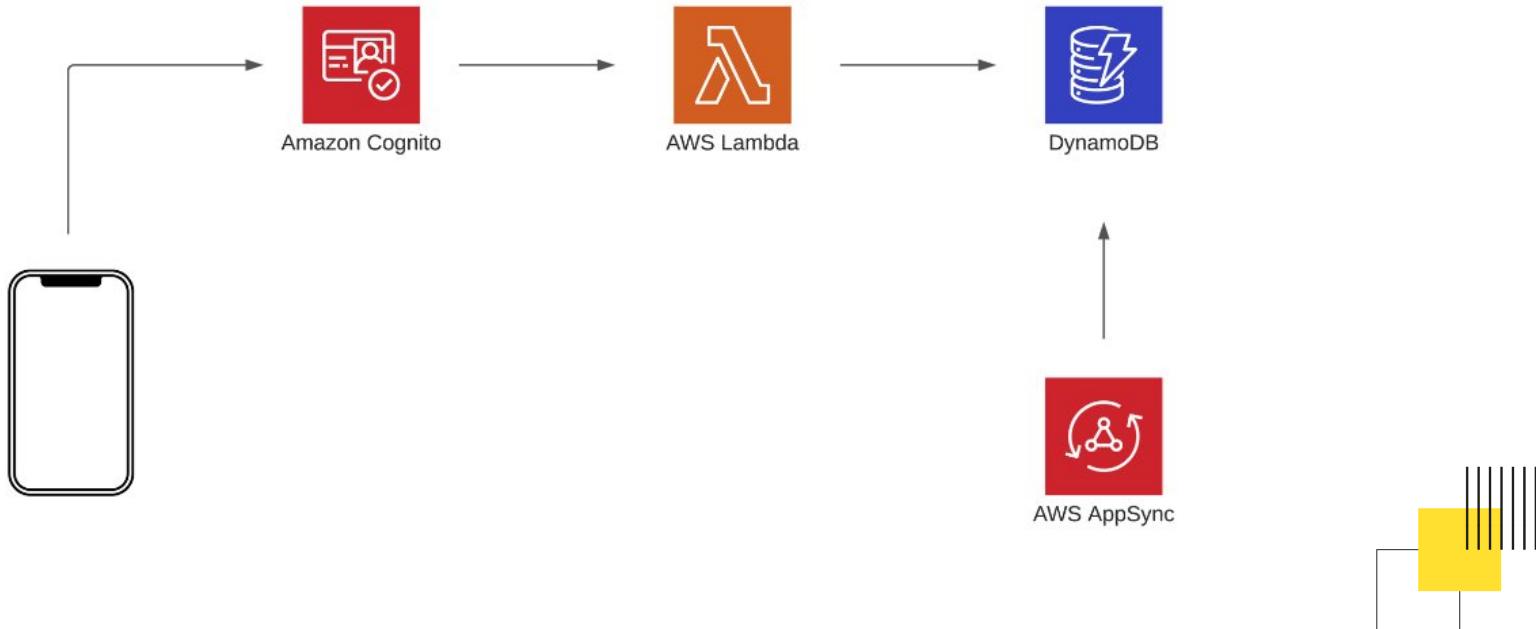
How does it work?



A better way to sync Cognito users with Database users

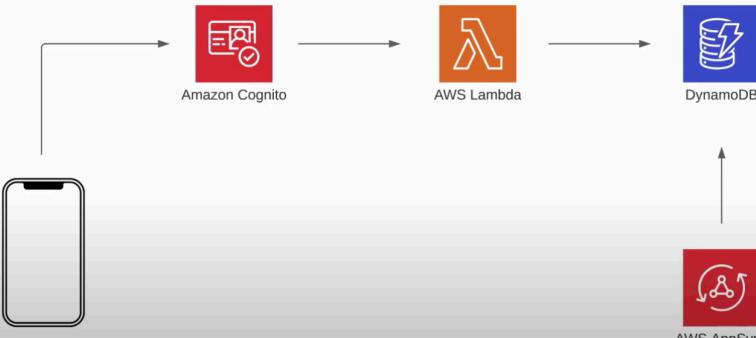
Post-confirmation Lambda Trigger

Saving a user in DynamoDB & creating an API to query for users.



Post-confirmation Lambda Trigger

Saving a user in DynamoDB & creating an API to query for users.



▶ 0:01 / 11:15 • Introduction >

Settings

Adding Users to DynamoDB using a Cognito Post-confirmation Lambda Trigger & Exposing a GraphQL API

279 views • Feb 11, 2021



21

0

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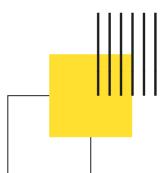
Nader Dabit

7.61K subscribers

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<https://www.youtube.com/watch?v=Sk9HMuAaTmQ>



Setup Authentication

```
||| $ amplify add auth
```

- || - Manual configuration
- || - Setup Lambda Triggers: Post confirmation
- || - Create own module
- || - Configure App.js

GraphQL API

```
||| $ amplify add api  
||| 1. Write User Model  
||| 2. Push everything to the cloud (amplify push)
```



Finish set-up of Lambda Function

- ||| 1. Set the user table name as env variable
- ||| 2. Give access to Lambda to access the DynamoDB
- ||| 3. Test it out



GraphQL API

- ||| 1. Write the Cars Model
- ||| 2. Write the Orders Model
- ||
- ||
- ||
- |||
- |||

 AWS Amplify



GraphQL API

- ||| 1. Fetch cars from API
- ||| 2. Create order using API
- ||
- ||
- ||
- |||
- |||

 AWS Amplify





New channel members



it is now



sambulo senda

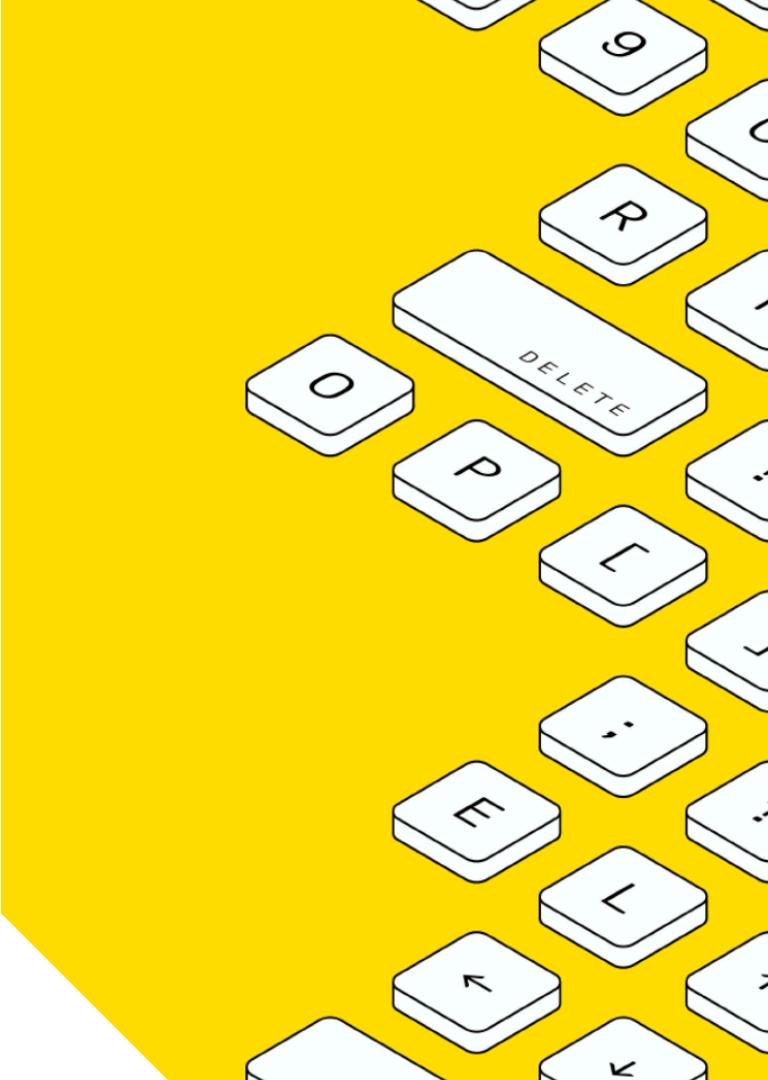


ACodei Codando



Edwardo1978

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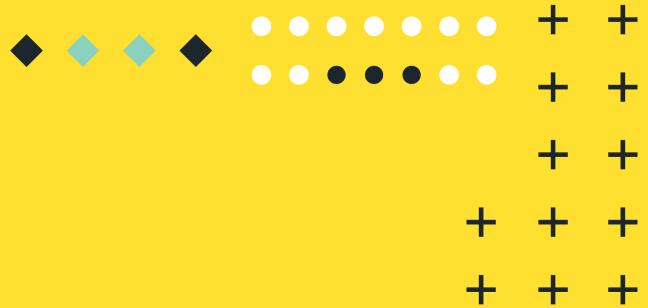
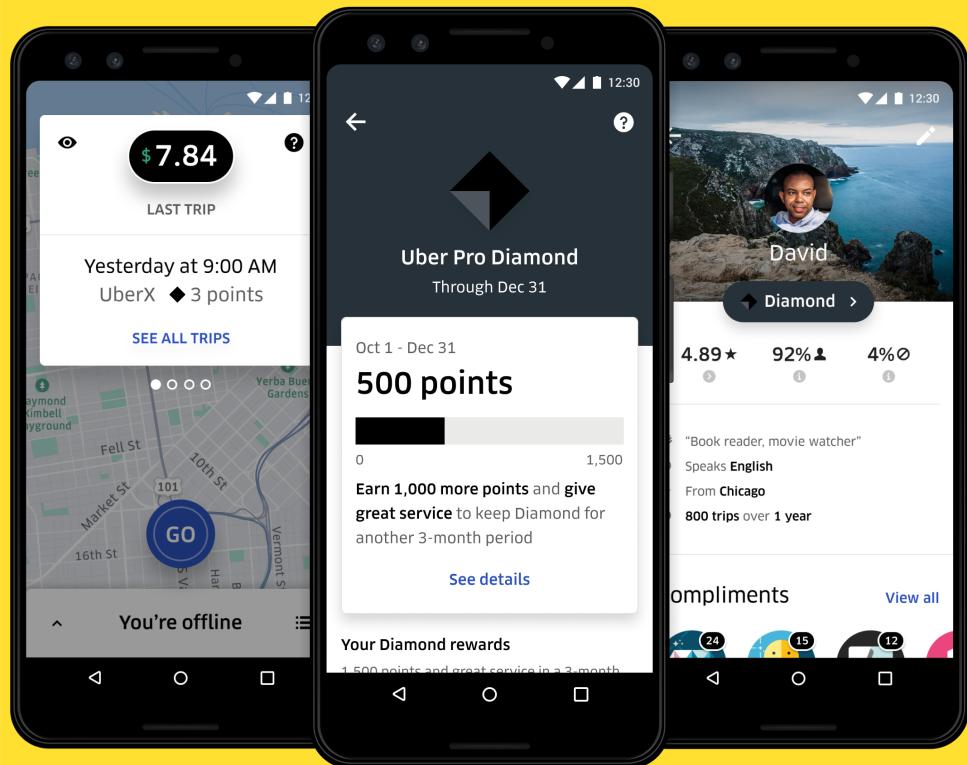


Q&A



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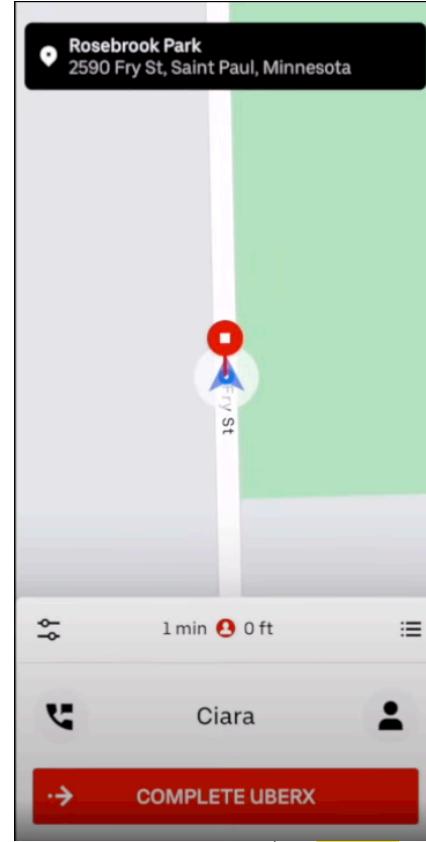
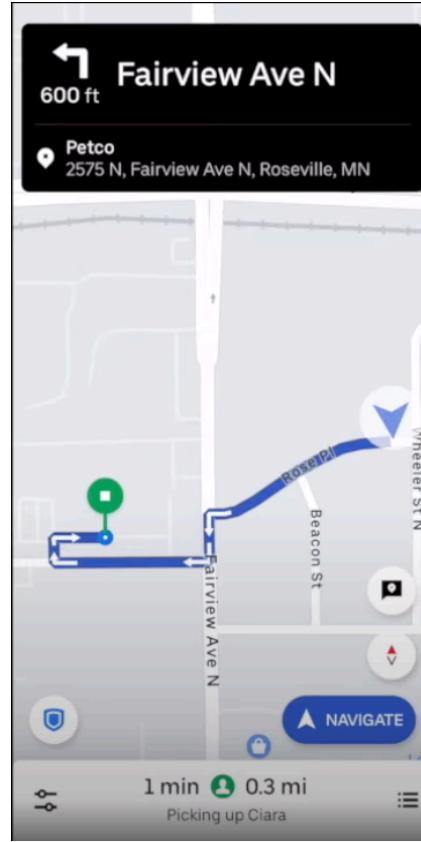
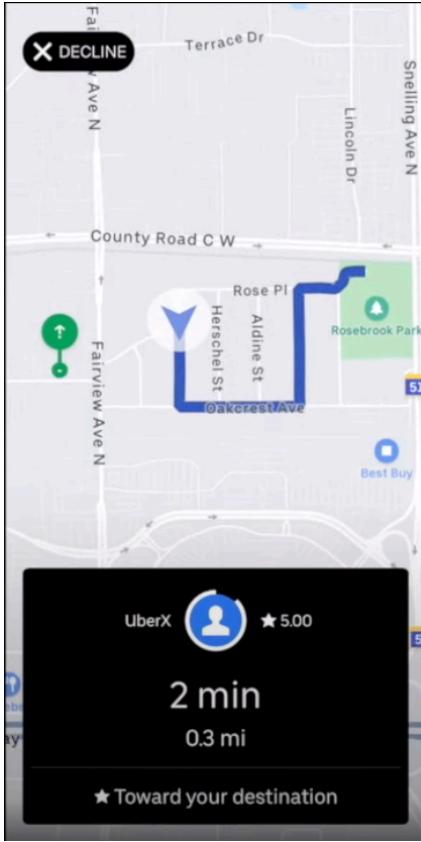
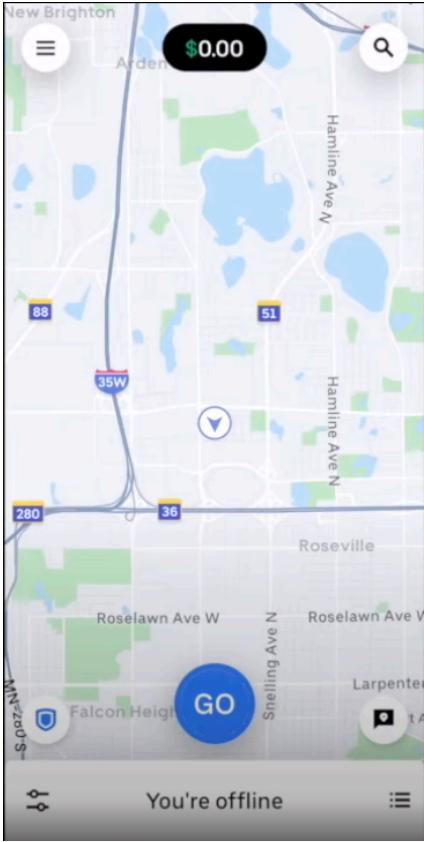
Uber Driver App

React Native & AWS AMPLIFY

Build a full stack Taxi mobile app



We are going to build



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Who am I



- Full stack developer for >7yrs
- CTO @Fitinium
- ex Amazon SDE
- Passionate about coding and building impactful startups.

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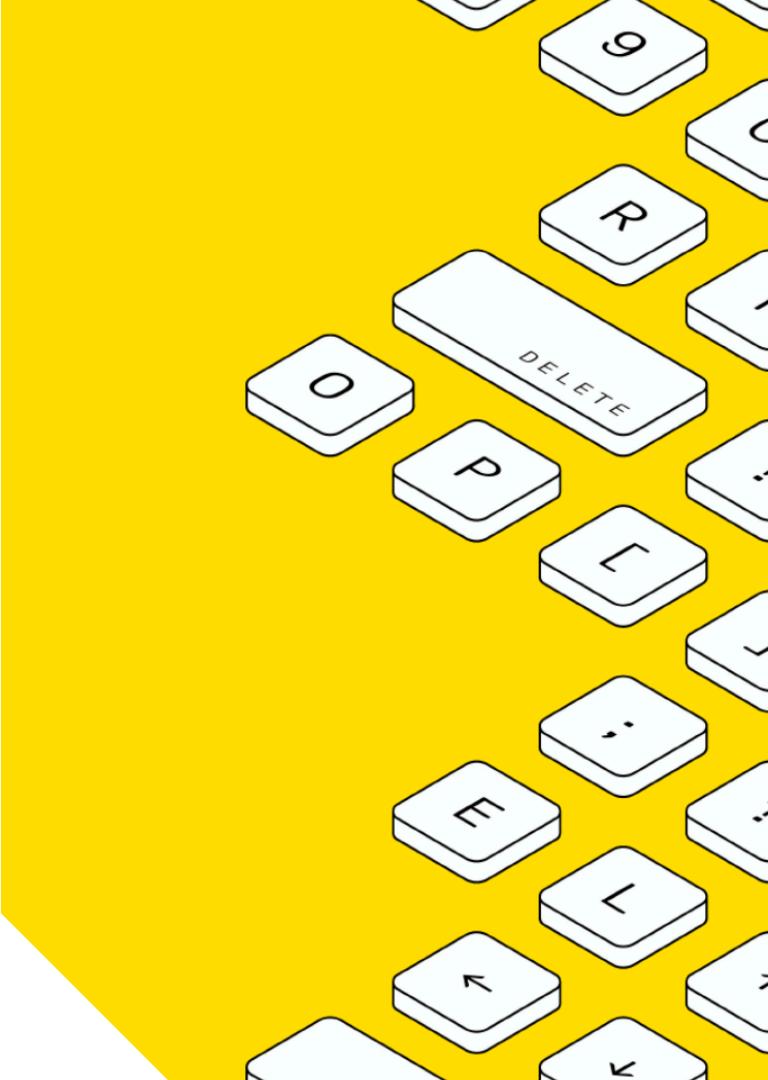


New channel members

Member	Current level
 Jaroslav Beneš	notJust Developer Senior



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Vadim Savin

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Loyalty badges next to your name in comments and live chat

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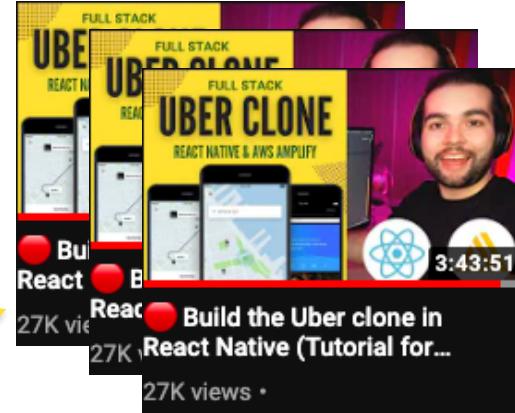


Prerequisites

1. React Native environment set up
2. Google developer account
3. Dummy data, images, icons, PDF presentation:
<https://assets.notjust.dev/uber>

Starting point

1. User App

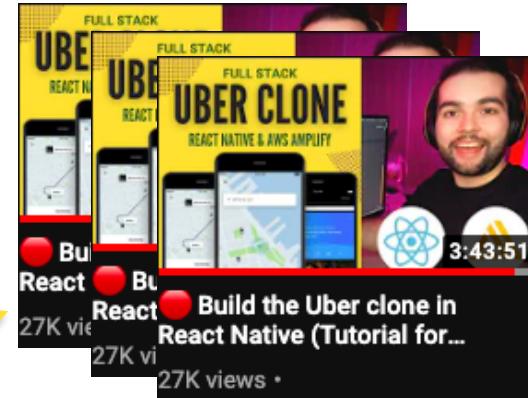


Starting point

1. User App



1. User App
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5. Install all the libraries
6. Run the project



Enabled APIs

Select an API to view details. Figures are for the last 30 days.

API ↑	Requests
Directions API	208
Geocoding API	0
Maps SDK for Android	2
Maps SDK for iOS	21
Places API	834

Places API

834

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Let's get started



Let's get started

Initialise the RN project:

```
$ npx react-native init UberDriver
```

||| Run the development server

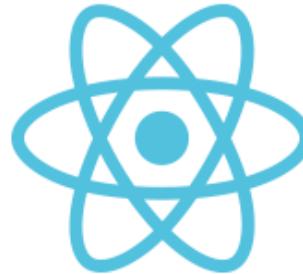
```
$ yarn start           $ npm start
```

||| Run the app on iOS

```
$ yarn ios            $ npm run ios
```

||| Run the app on android

```
$ yarn android        $ npm run android
```



Vector Icons



Choose from 3K+ icons or use your own

Vector icons

Install vector icons

```
$ yarn add react-native-vector-icons
```

```
$ npm install react-native-vector-icons
```



IOS: Add UIAppFonts to Info.plist



Android: Add to the android/app/build.gradle



```
apply from: "../../node_modules/react-native-vector-icons/fonts.gradle"
```



Install pods (iOS only)



```
$ npx pod-install
```



Maps Directions



Library: **React Native Maps Directions**



<https://www.npmjs.com/package/react-native-maps-directions>



```
latitude: 37.790790,  
longitude: -122.442753,  
  
latitude: 37.790651,  
longitude: -122.422497,  
  
GOOGLE_MAPS_APIKEY = '...';  
  
RNMapsDirectionsExample extends Component {  
  render() {  
    <MapView initialRegion={initialRegion} style={StyleSheet.absoluteFillObject}>  
      <MapView.Marker coordinate={coordinates[0]} />  
      <MapView.Marker coordinate={coordinates[1]} />  
      <MapViewDirections  
        origin={coordinates[0]}  
        destination={coordinates[1]}  
        apikey={GOOGLE_MAPS_APIKEY}  
        strokeWidth={3}  
        strokeColor="hotpink"  
      />  
    </MapView>  
  
    default RNMapsDirectionsExample;
```

Maps

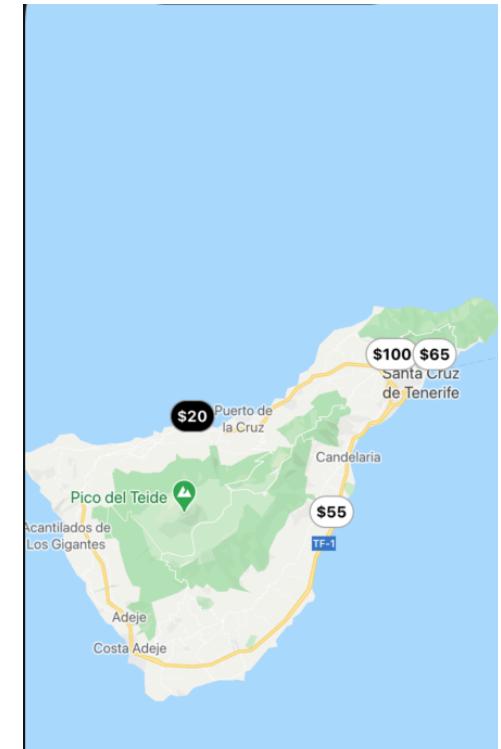


Library: **React Native Maps**

<https://www.npmjs.com/package/react-native-maps>



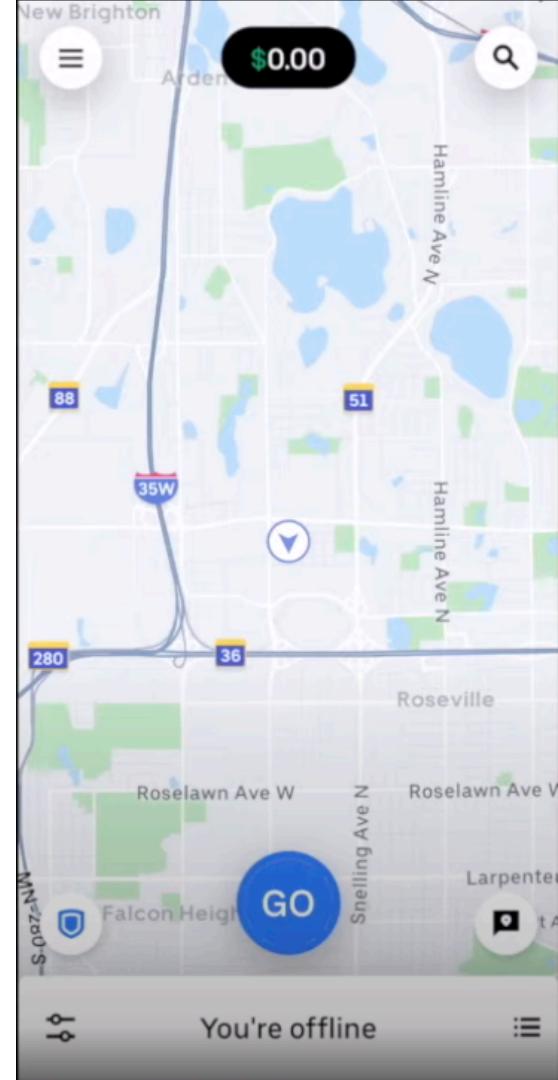
1. install library
2. Enable google API
3. Make sure billing is enabled
4. Get API Key



Home Screen



1. Render the map, with user location
2. Render all the buttons on the screen
3. Switch from offline to online

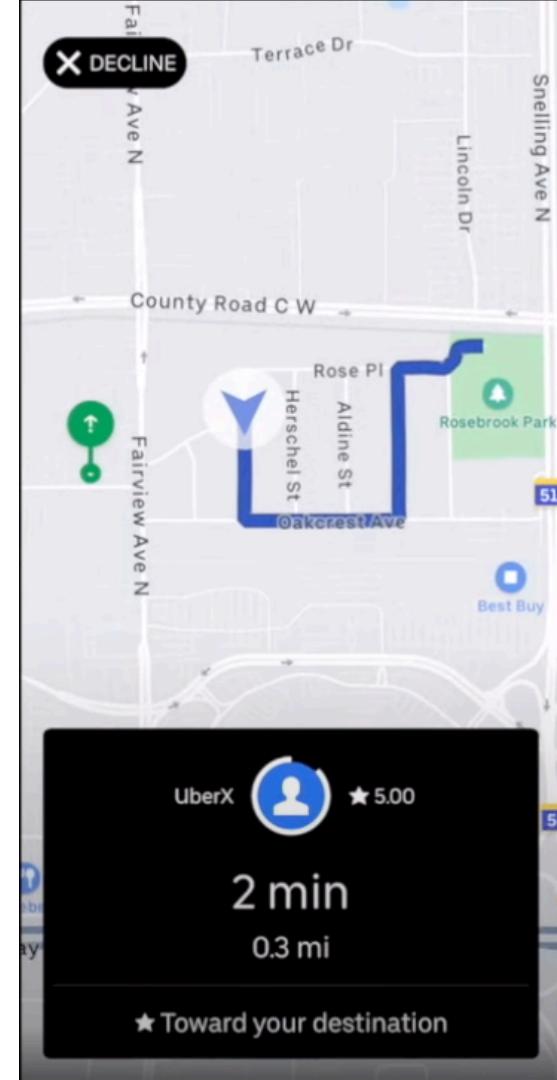




New Ride pop-up



1. Render the popup
2. On decline, remove from list
3. On press, start ride



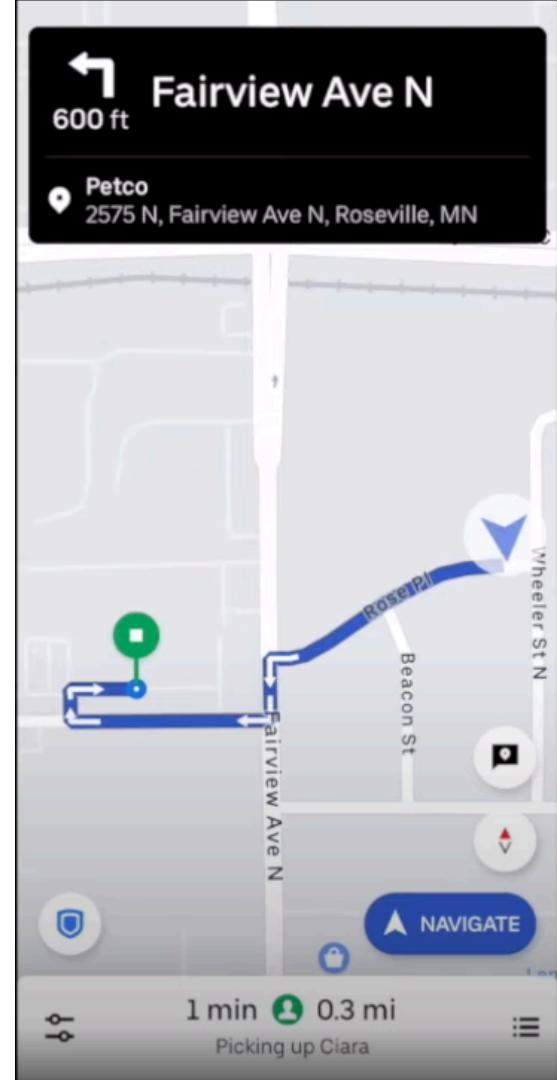
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//development

Pick up the client



1. Show route to the client



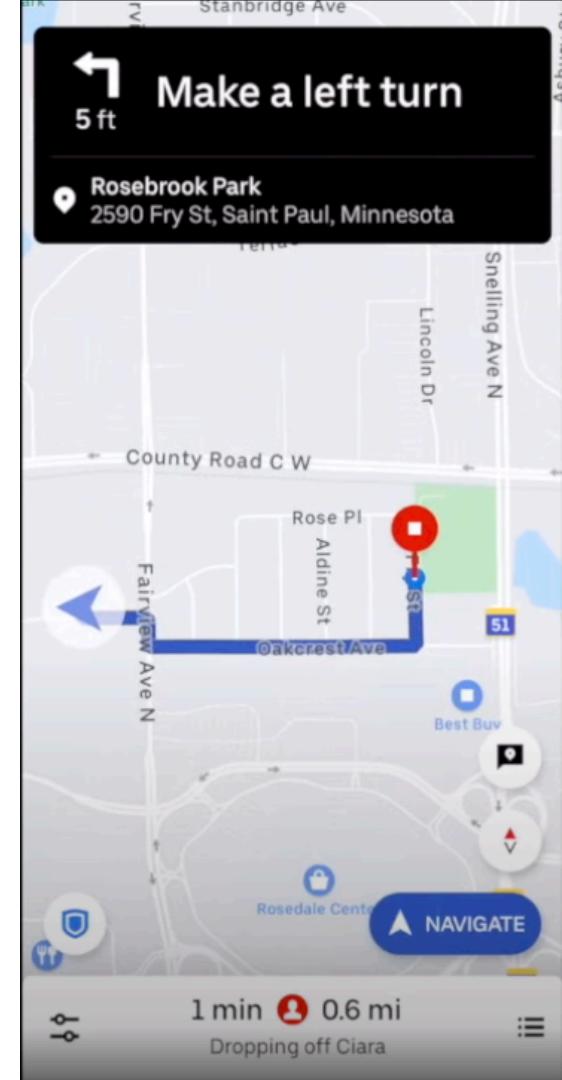
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Pick up the client



1. Show route to the destination



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Complete Ride



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Next week, Friday at 3PM GMT

- Connect the driver app with the user app
- Synchronise data and orders
- Real-time GEO tracking of the cars



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Q&A

