Introduction To Flutter

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A LITTLE BIT ABOUT ME...

- Software Engineer @ Freespace
- Been messing with Flutter since the alpha stages (July 2018)
- Currently leading a team of Flutter developers building enterprise applications for clients across the globe.
- Part-time musician ~ 🎹 🎸🎤

Why Flutter ?

Fast Development

Amazing UI

Reduced Costs and People Required

Multiple Platform Support

Ever Growing Community

Project Setup

flutter create **app_name**

Extra arguments you can pass:

--org   Organization identifier (generally domain in reverse order i.e. com.afreespace)
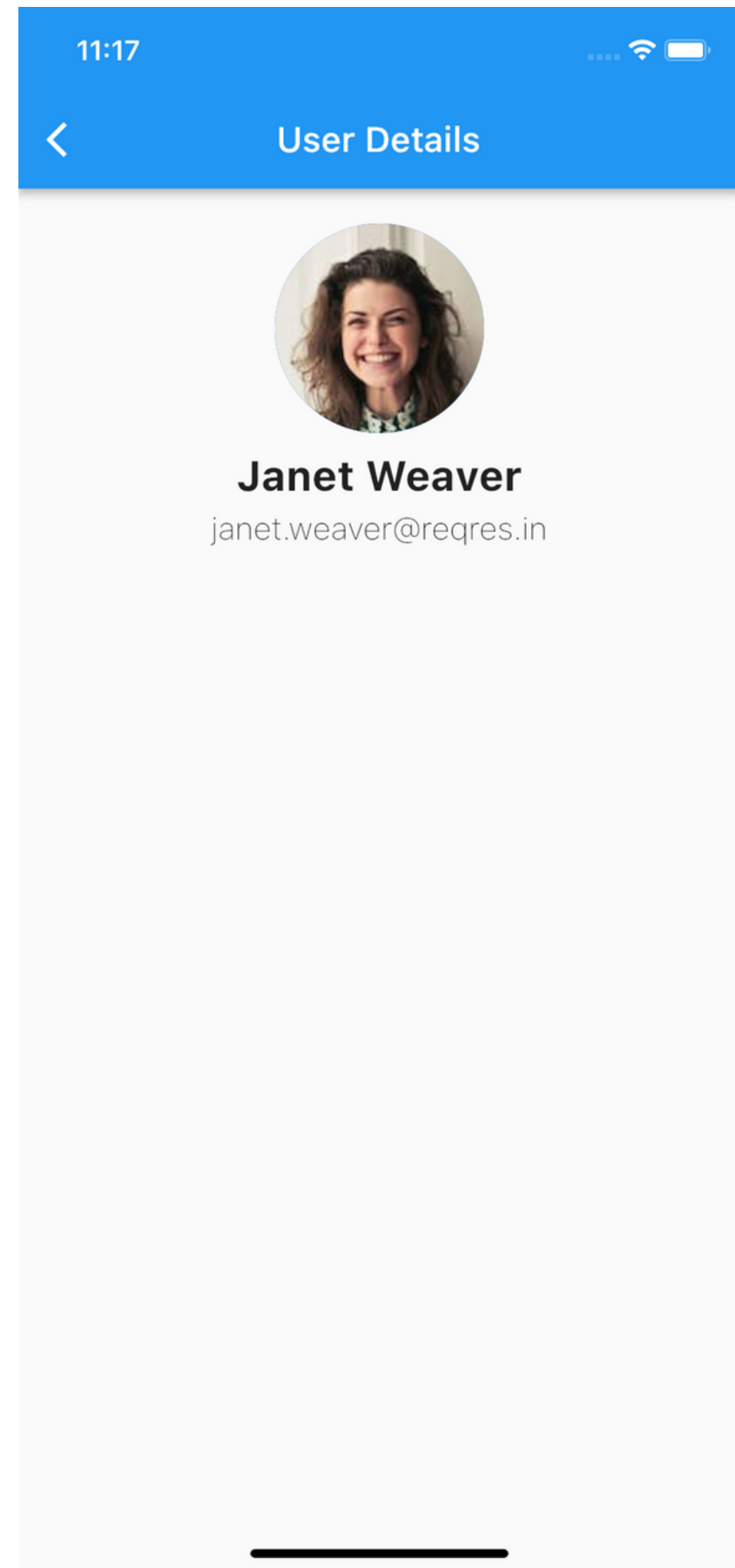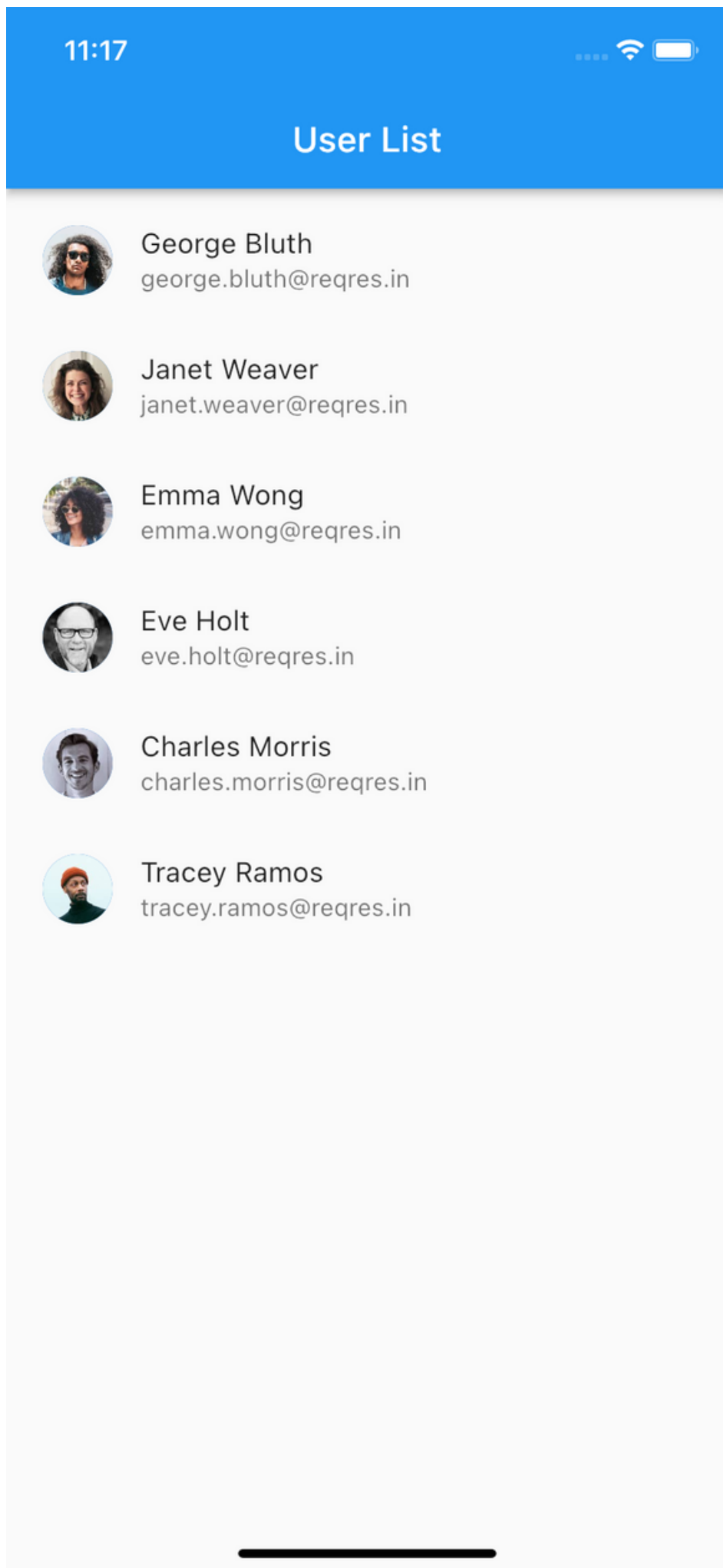
--description   Project description that tells other people a brief about the project

--platforms   Specifies which platforms do we want to build to. All stable platforms are selected by default.
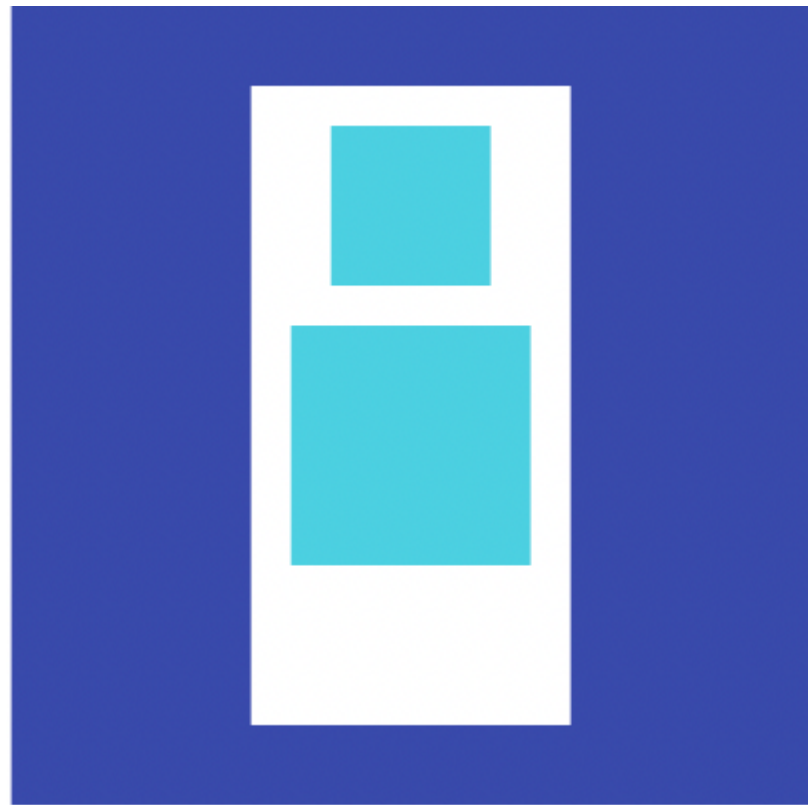
Note
We are using Flutter 2.x (specifically 2.10.1 or later) that uses sound null safety by default.
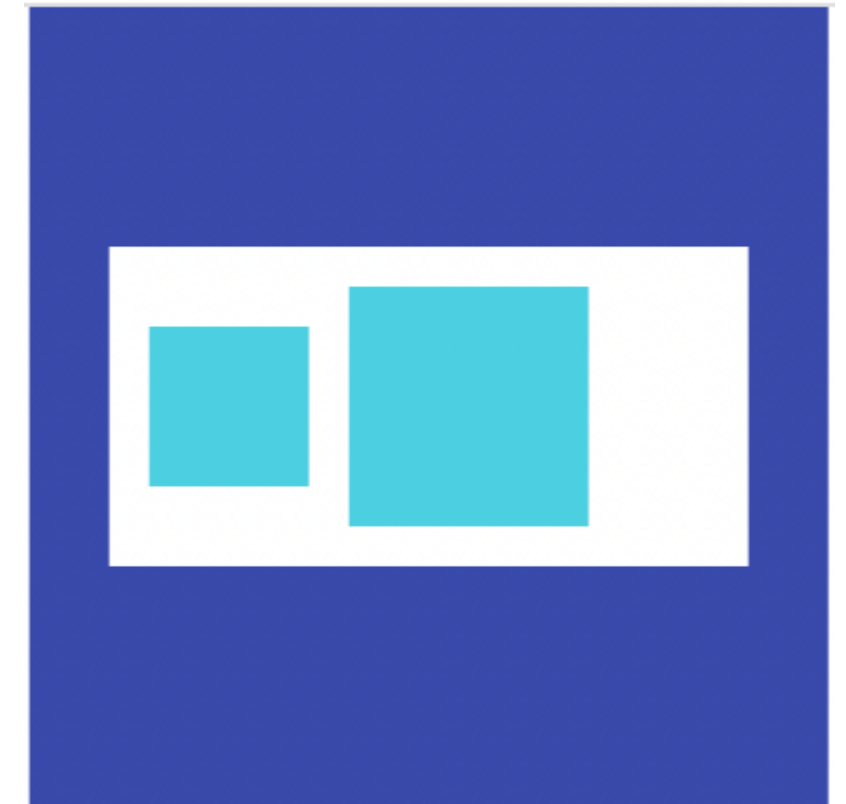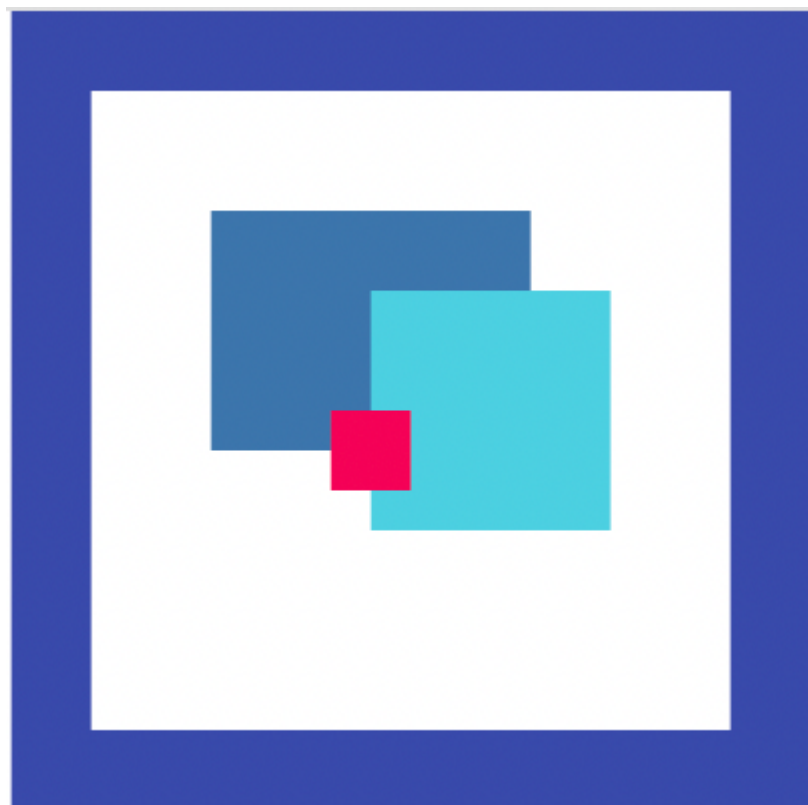
Sample App

Layouts

Column

Stack

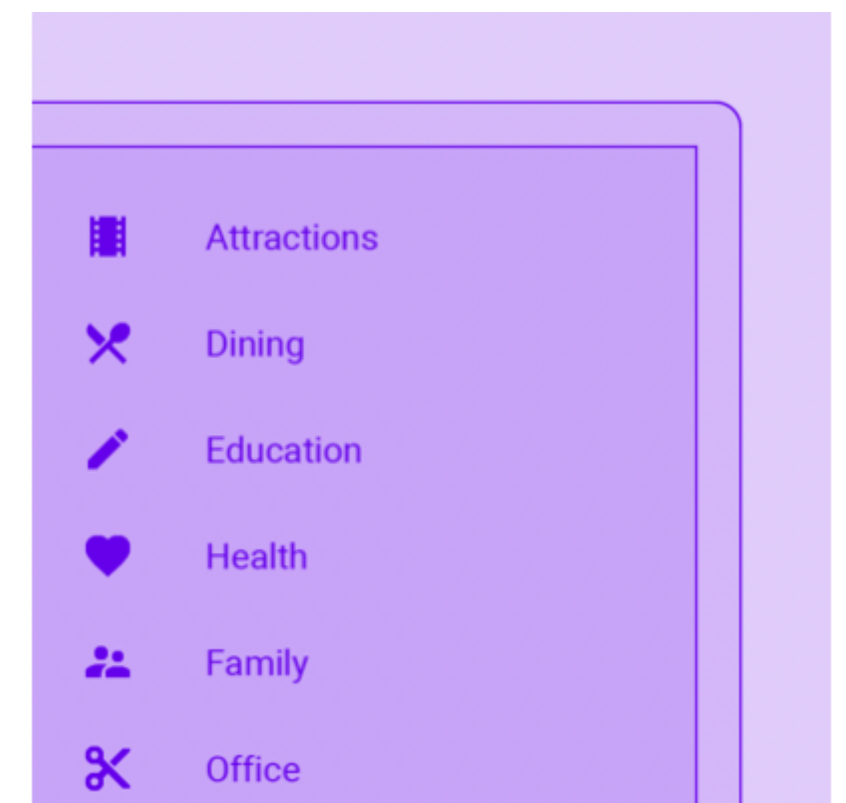Grid View

Row

List View

	Attractions
	Dining
	Education
	Health
	Family
	Office

Navigation

```dart
// Push a new route
Navigator.push(
  context,
  MaterialPageRoute(
    builder: (context) ⇒ const SecondPage(),
  ),
);

// Push named route
Navigator.pushNamed(context, '/second');

// Pop
Navigator.pop(context);
```

Network Calls

- Add the `http` dependency to the `pubspec.yaml` file
- Import the `http` package
- Add INTERNET permission for Android
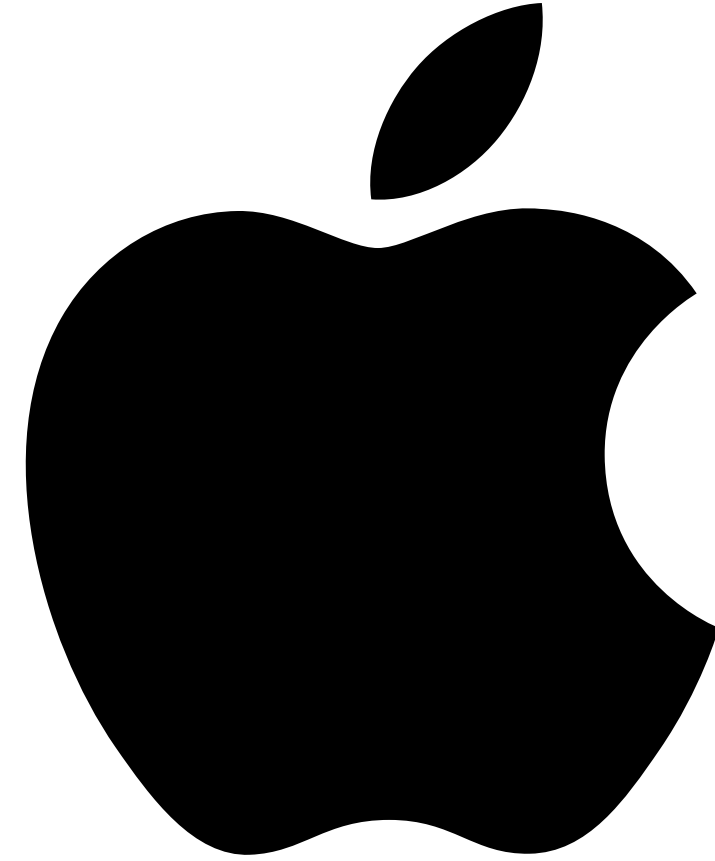- Write a function that implements GET HTTP request

```dart
Future<http.Response> fetchUsers() {
  return http.get(Uri.parse('https://reqres.in/api/users'));
}
```

- Write data model to convert the JSON data
- Call the method in the view widget
- Render the fetched users in the list

Building Your App

flutter build apk
flutter build appbundle

flutter build ios
flutter build ipa

** You need a Mac to build for iOS
** iOS build files require additional setup before they can installed on physical devices

Resources & Next Steps

Keep Exploring Flutter! The Flutter Docs are a great resource!

Youtube - Flutter, Flutter Community, Tadas Petra, Reso Coder, The Net Ninja

Medium - Flutter Community

Udemy - Maximilian Schwarzmüller, Angela Yu, Stephen Grider