



Flutter Foundation

Your First Step In Mobile App
Development

About me

2nd Year Software Engineering
Student from FSKTM

- Two-year experience in Mobile App Development
- Winner in the Android Development National Challenge 2022
- Part-time Developer at UniLah.



Choo Xiang Lun



Today's Agenda

1

MAD & Flutter Introduction

3

Let's Learn Flutter

2

Let's Learn Dart

4

Building Your First Application



MAD

Introduction

Let's begin



MAD Introduction

1


Two major fields, Android and iOS.

2

Each fields requires different tools and technologies.

3


Two approaches to develop mobile apps are Native and Cross-Platform




MAD Introduction

Native App Development Approach

Android

- Editor: Android Studio
- Language: Kotlin 
- File: .APK

iOS

- Editor: Xcode
- Language: Swift 
- File: .IPA

* To publish your app on Google Play Store and iOS App Store natively, you need to build it twice with different technologies.

MAD Introduction

Cross-Platform Development Approach

Flutter

- Editor: Visual Studio Code / Android Studio
- Language: Dart



iOS

* To publish your app on Google Play Store and iOS App Store, you only need to build it once.

MAD Introduction

Native vs Cross-Platform

	<u>Native</u>	<u>Cross-Platform</u>
<u>Cost</u>	High	Low
<u>Performance</u>	High	Low
<u>Development Time</u>	Long	Short
<u>Access to Hardware</u>	Full	Limited

Flutter Introduction

Let's begin



What is Flutter?

- 
- 
- An open-source UI toolkit and SDK developed by Google, that allows you to build highly performant cross-platform apps.
 - Programmed using Dart Programming Language.
- 



Why Learn Flutter?

1

Build highly performant iOS and Android application using one codebase.

2

Relatively easy to learn and develop.

3

Very popular.

4

Improve your resume.

Let's Learn Dart



Let's begin

Let's Learn Flutter



Let's begin




Flutter Main Concept



Widgets!



- Bedrocks of Flutter applications.
 - Everything inside Flutter App is a widget.
 - Widgets are classes that represents UI Components, ex: Buttons, Texts etc.
- 




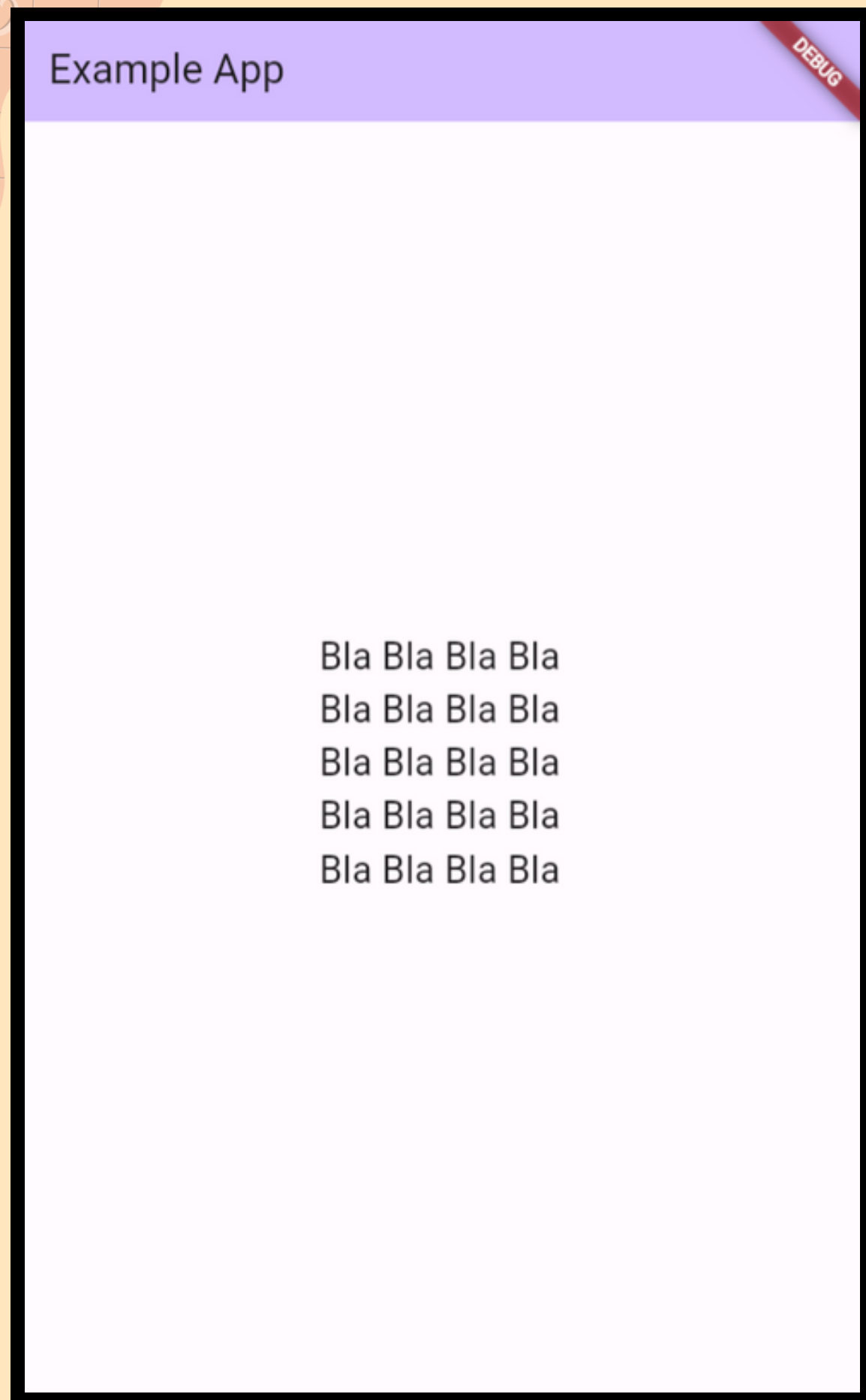
Example App

DEBUG

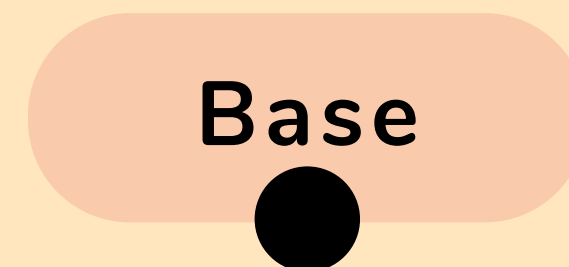
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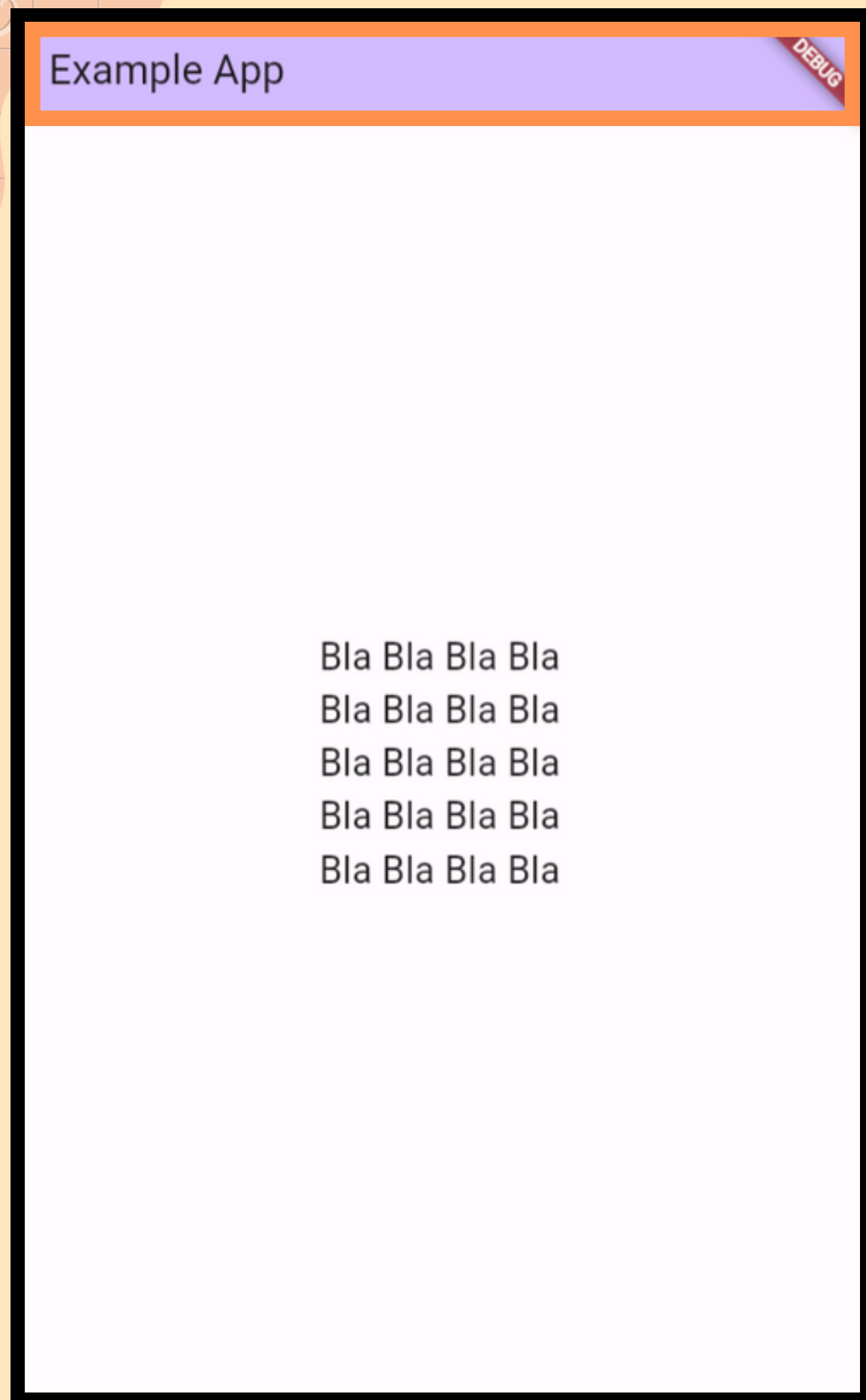
There are **four widgets** in
this page!



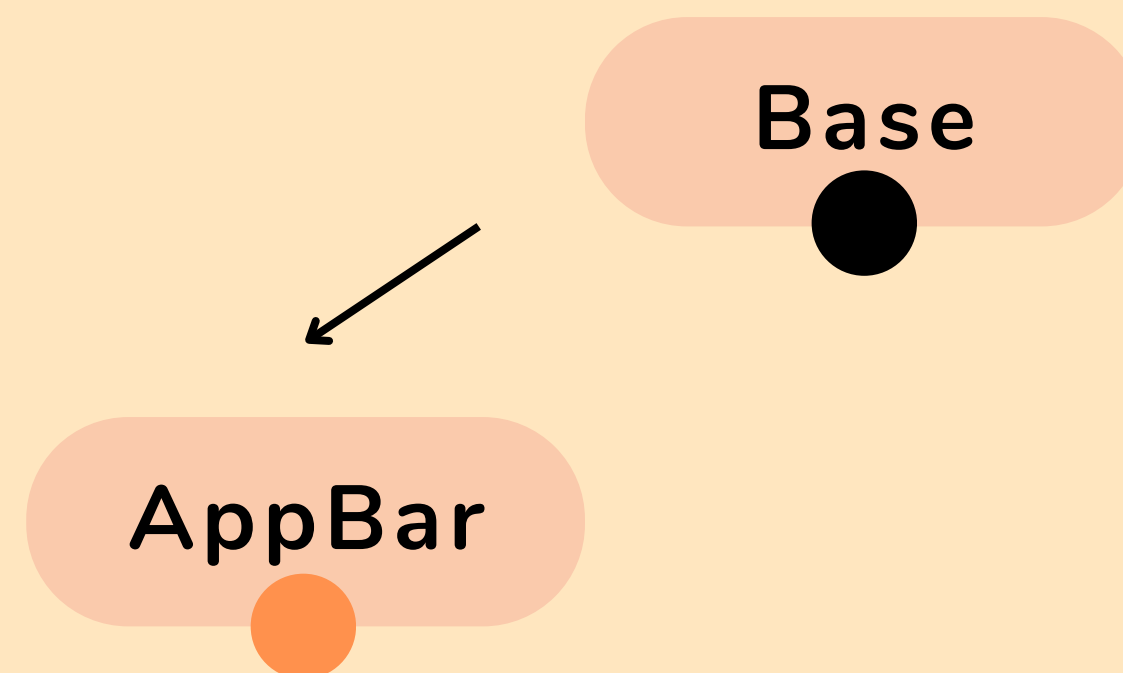


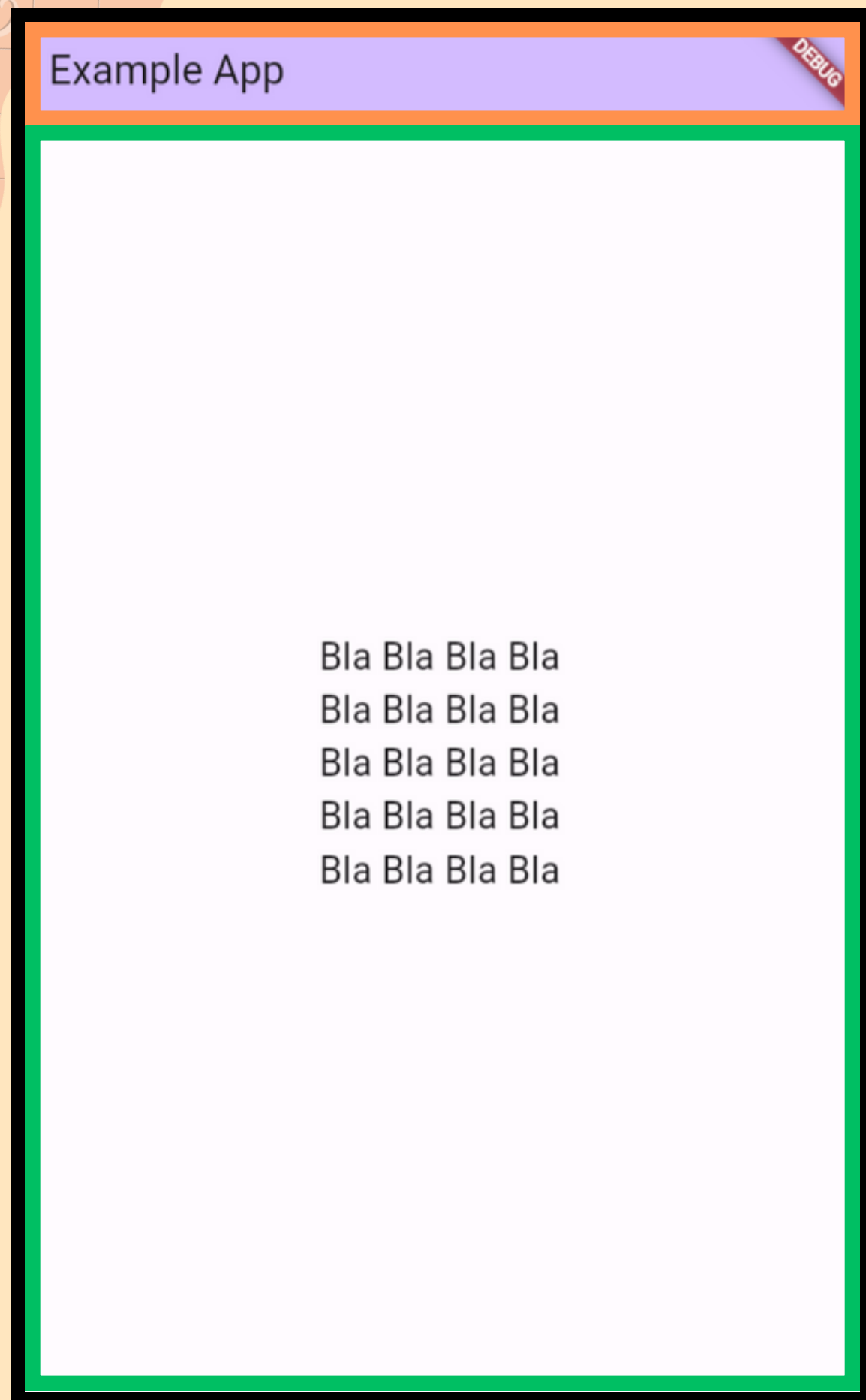
Widget Graph



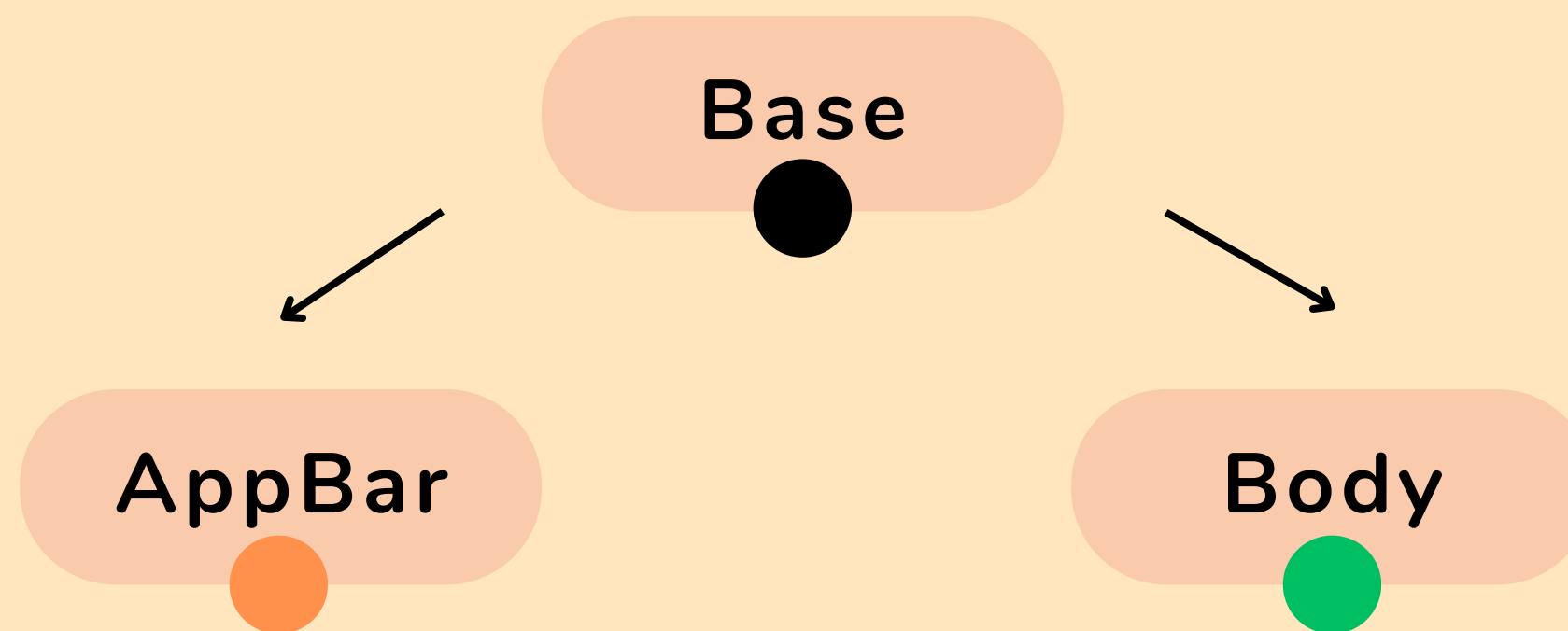


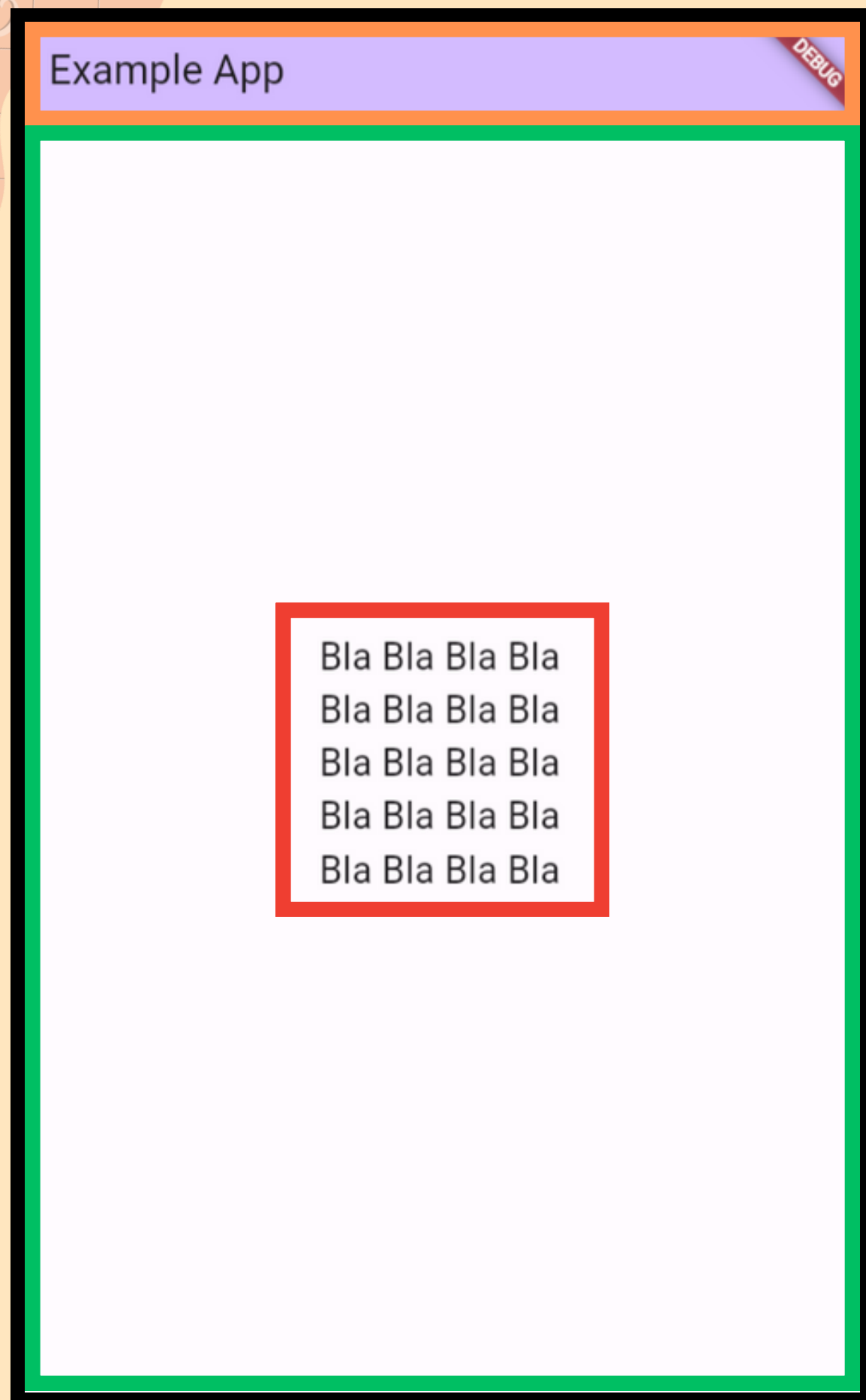
Widget Graph



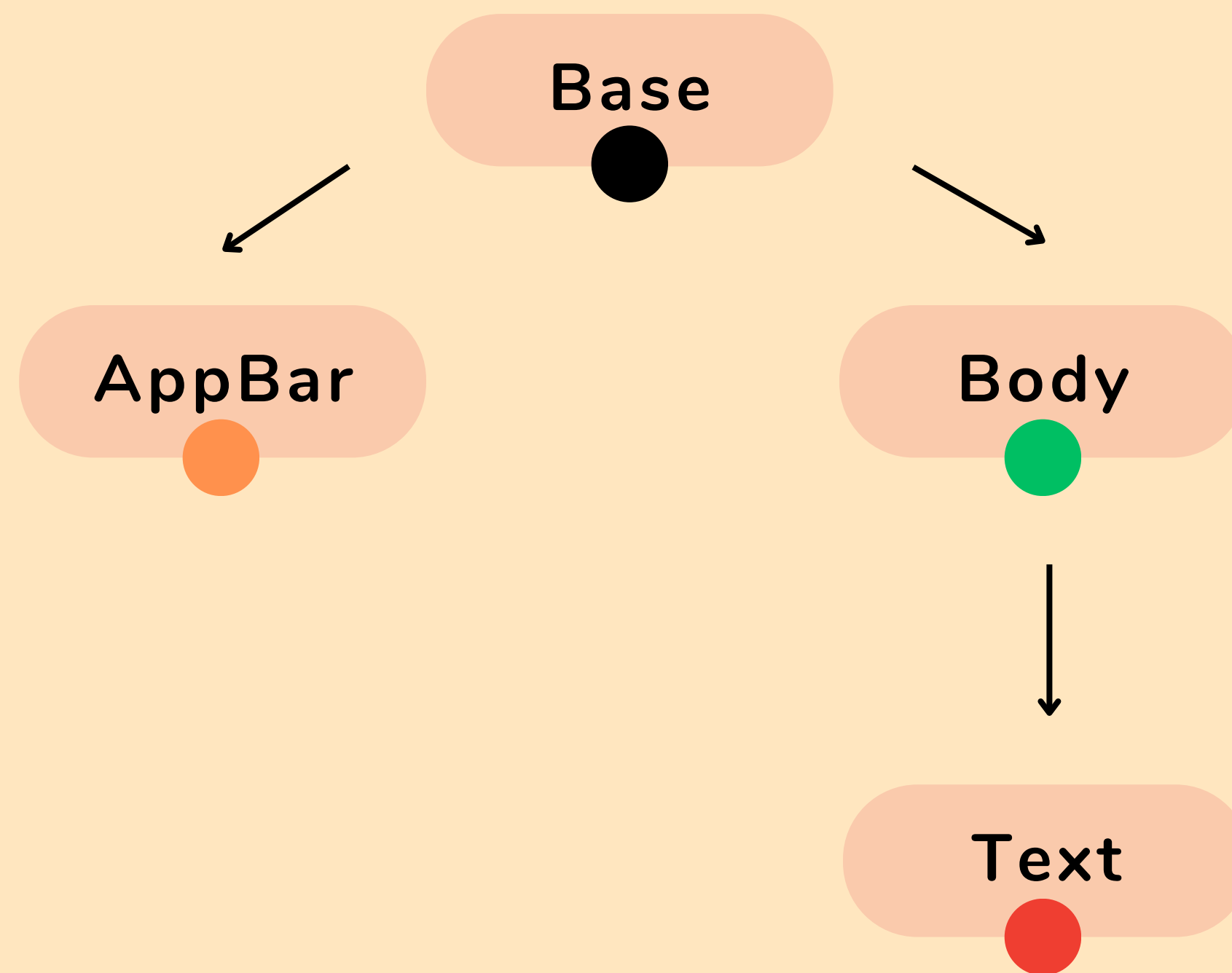


Widget Graph





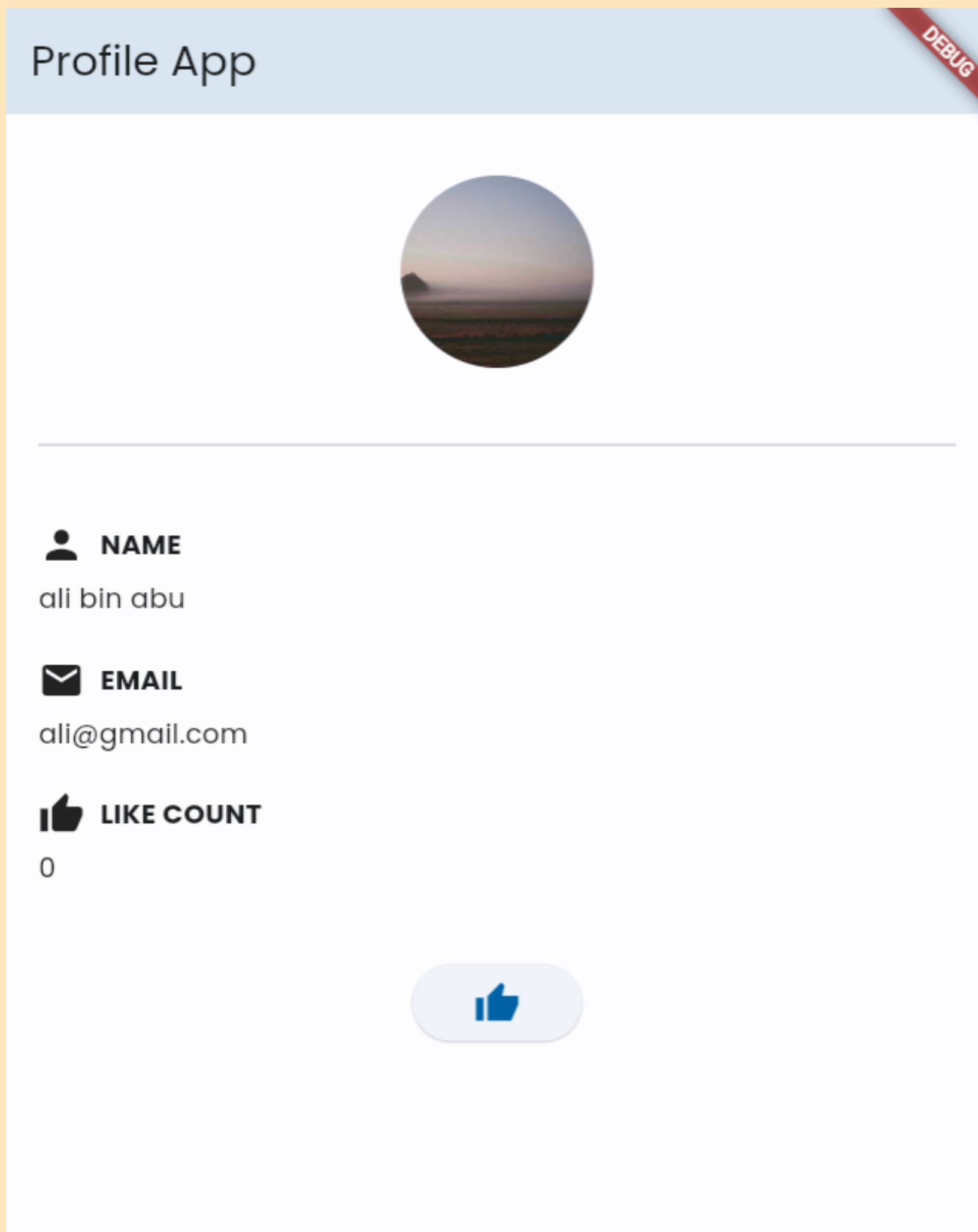
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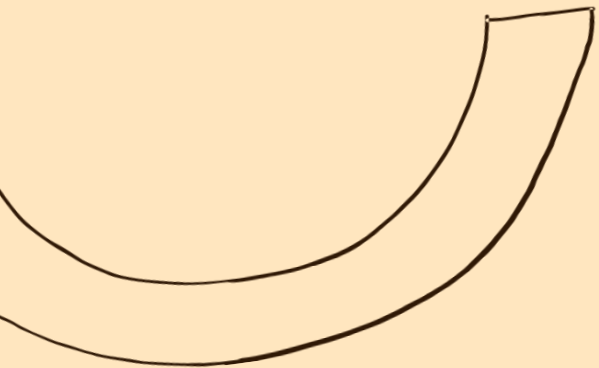


Building Your First Application

Let's begin

Try it yourself!





Quotes App

DEBUG

The only way to do great work is to love what you do.

---Steve Jobs

Delete

The best and most beautiful things in the world cannot be seen or even touched - they must be felt with the heart.

---Helen Keller

Delete

The only thing that stands between you and your dream is the will to try and the belief that it is actually possible.

---Joel Brown

Delete

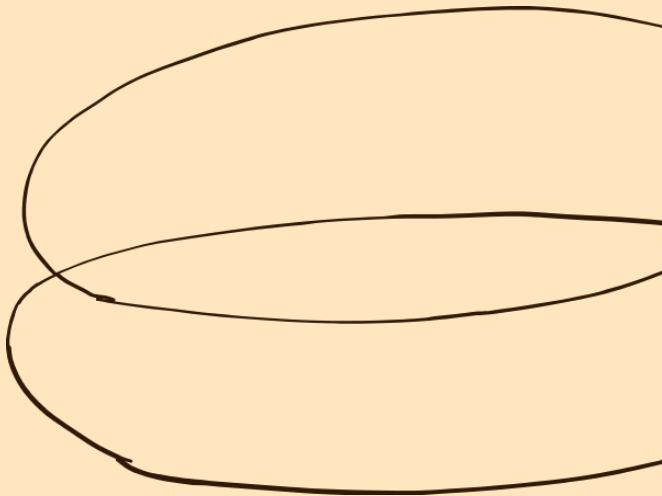
The only way to fail is to give up.

---Thomas A. Edison

Delete

The only person you are destined to become is the person you decide to be.

---Ralph Waldo Emerson






That's a wrap!



Thank you for participating!

Feel free to contact me if you have any doubts about MAD!

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Let's Connect!



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