Gemini

Workshop Series

GDSC IIT Indore

Gemini

Day 1
Day 2
Day 3
App Dev
Web Dev
ML

Gemini

D

Hello, Darryl

How can I help you today?

Generate unit tests for the following C# function

Suggest videos to quickly solve a problem

Ideas to surprise a friend on their birthday

Suggest beautiful places to see on an upcoming road trip

Your conversations are processed by human reviewers to improve the technologies powering Gemini Apps. Don't enter anything you wouldn't want reviewed or used.

How it works Dismiss

Enter a prompt here

Gemini may display inaccurate info, including about people, so double-check its responses. Your privacy & Gemini Apps

Let’s begin!

Structure

3 Parts

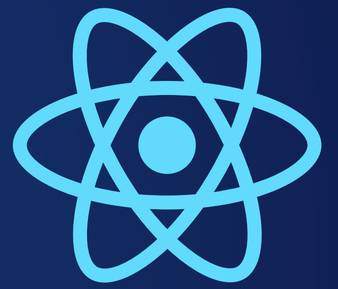
Basic Concepts — Making the app — Conclusion

How is an app built?

Swift

Java

Kotlin

Flutter

React Native

Xamarin

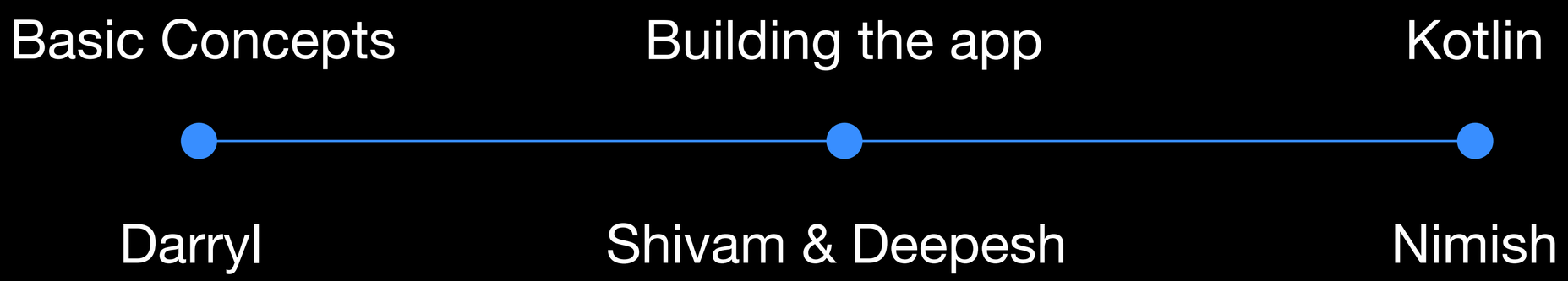
IONIC

Swift
Java
Kotlin
Flutter
React Native
Xamarin
IONIC
C++
jQuery
mobile
VB

Why Flutter?

Why Flutter?

- Cross Platform
- Fast
- Gaining popularity rapidly


Basic Concepts
Building the app
Kotlin
Darryl
Shivam & Deepesh
Nimish

Demo

1:54 61%

Flutter Gemini

search: hi

Hello there! How can I help you today?

Message

1:54 61%

Flutter Gemini

search: hi

Hello there! How can I help you today?

give the synopsis of image

1:55 61%

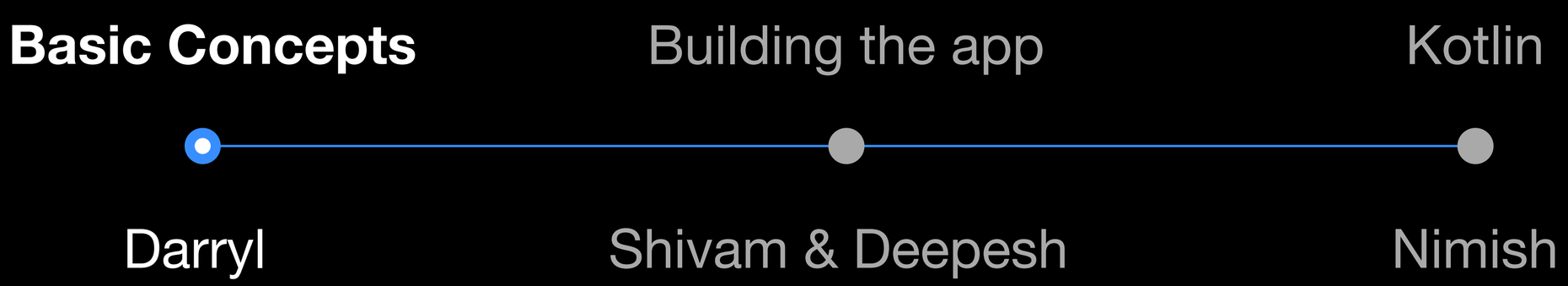
Flutter Gemini

search: give the synopsis of image

The experiment was performed successfully. The conclusions can be drawn:

1. For the case of class B push pull amplifier using complementary transistors, the outputvoltage can take place twice the supply voltage.
2. The power output of class B push pull amplifier is more as compared to class A amplifier.
3. Theefficiencyof class B push pull amplifier is more as compared to class A amplifier.
4. For class AB operation, the value of Vbe must be greater than 0.6V.
5. The crossover distortion can be reduced by using class AB operation.

Message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Nimish

Fundamentals

What is Flutter?

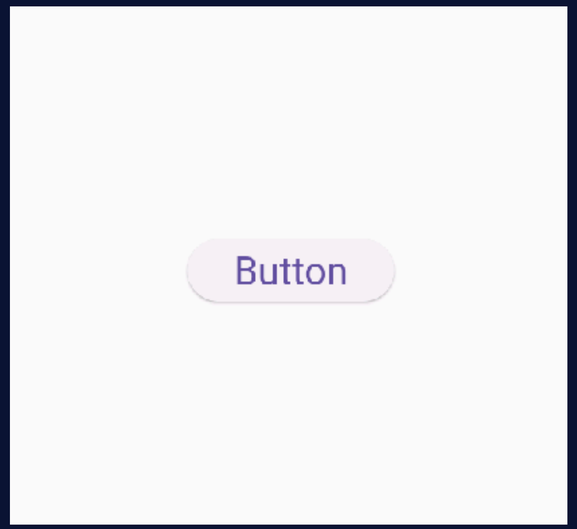
Flutter is a framework!

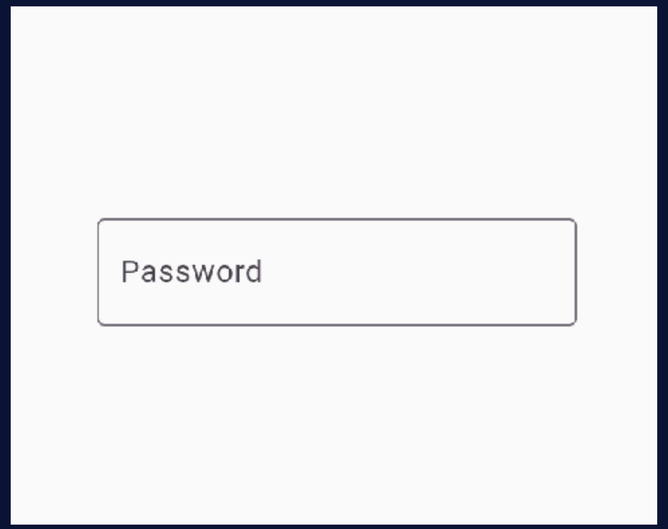
Dart

A language similar to C++

Widgets

Everything is a widget!





Munchkin cats
have short legs

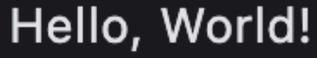
Some basic widgets

Text

ElevatedButton

Scaffold

```
Text(
'Hello, World!’
)
```

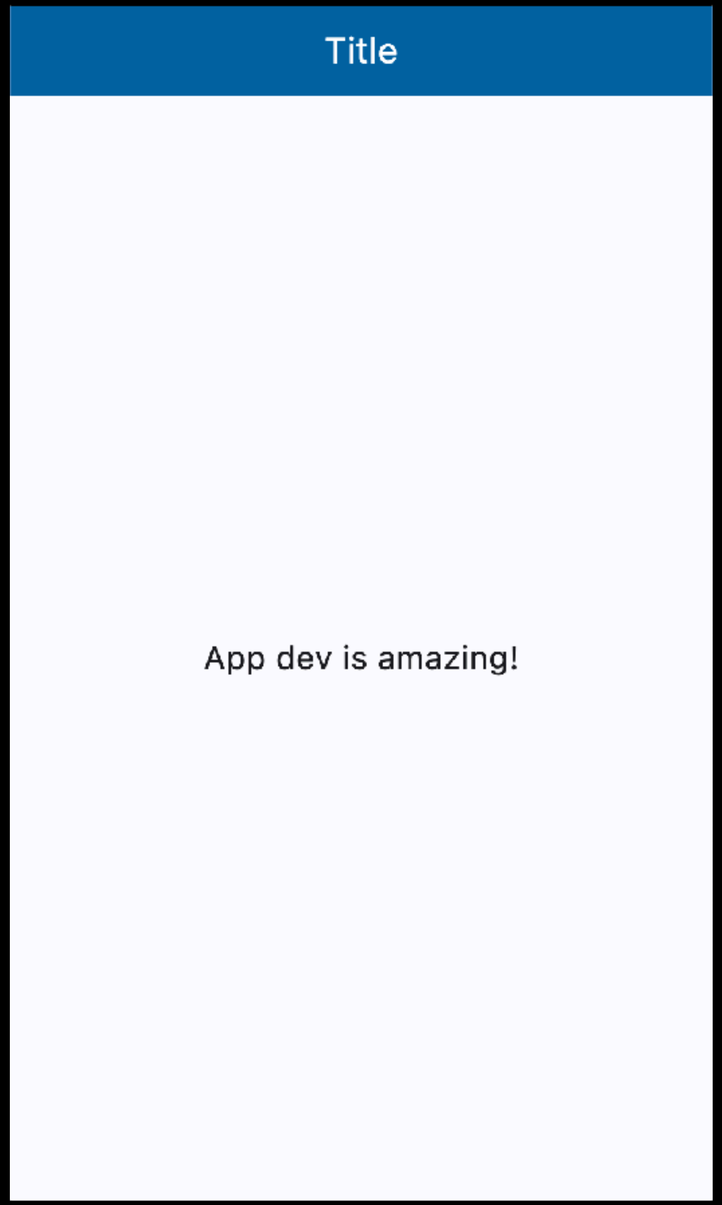


```
Text(
  'Hello, World!’,
  style: TextStyle(
    fontSize: 20,
    color: Colors.blue),
)
```

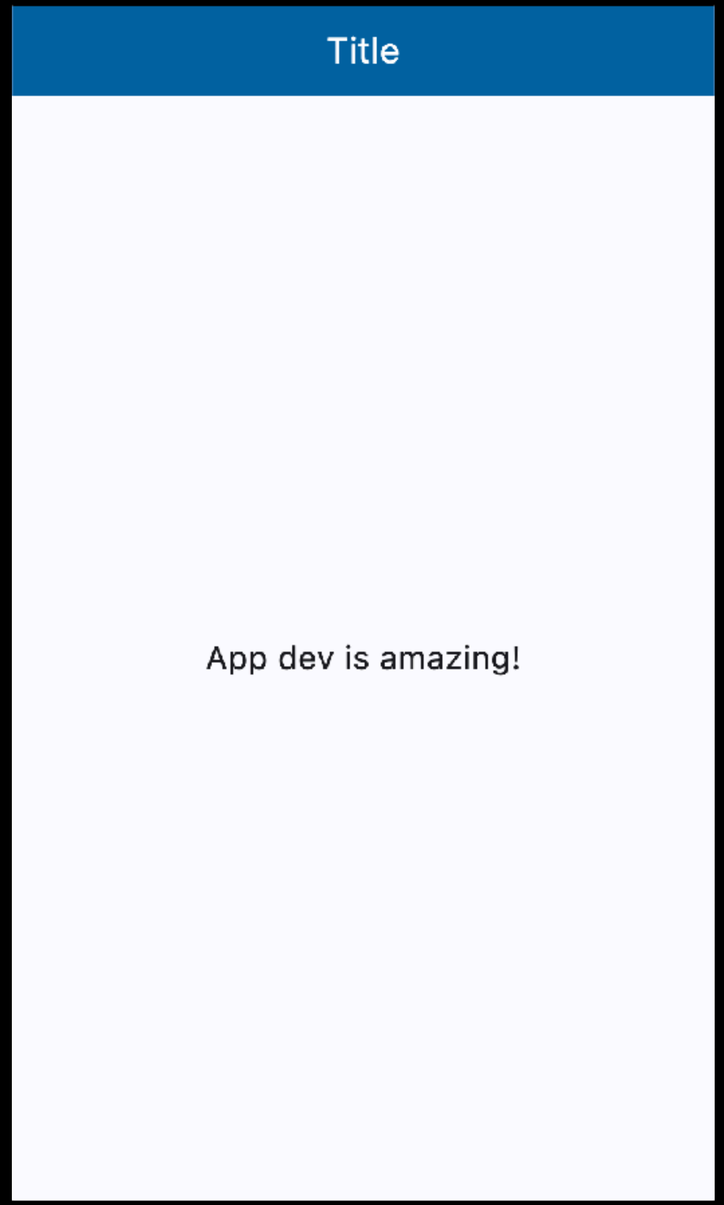
```
ElevatedButton ()
```

```
ElevatedButton (
  onPressed: () {},
  child: Text('Button')
)
```

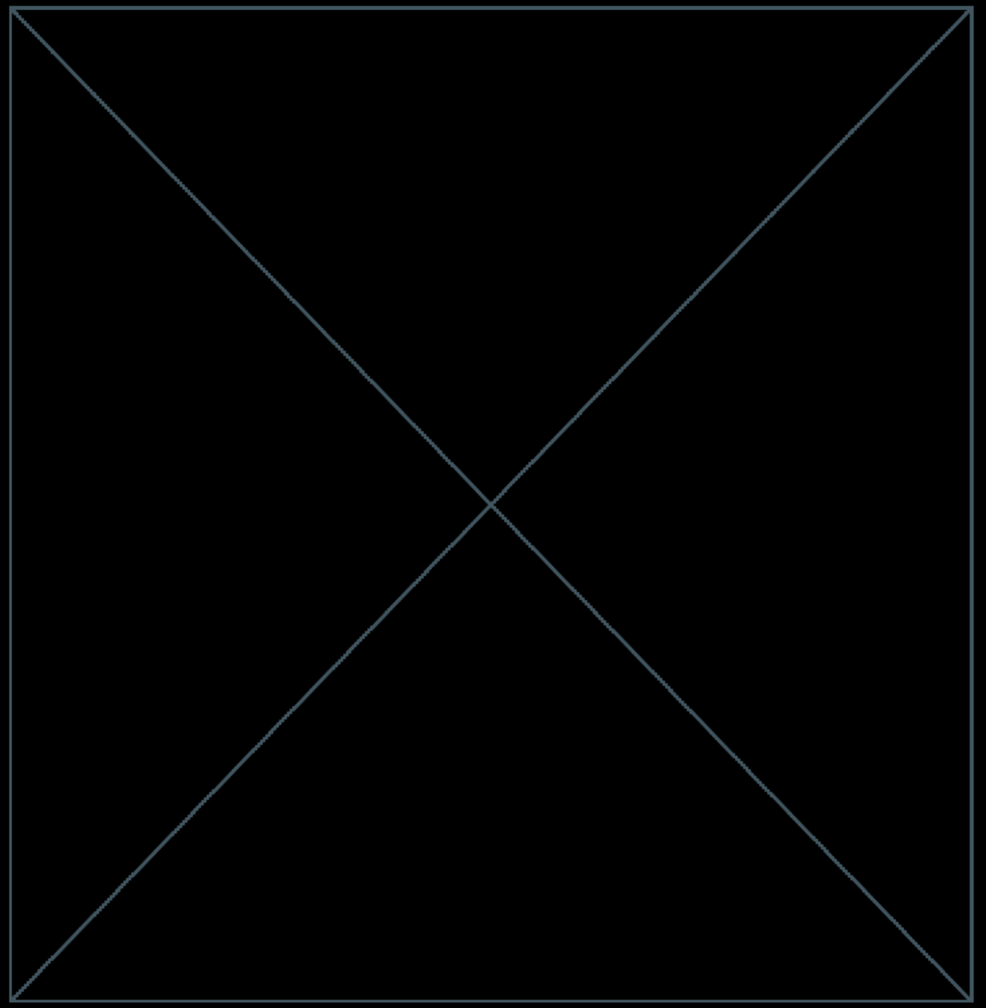
```
Scaffold()
```



```
Scaffold(

    appBar: AppBar(
      title: Text('Title'),
    ),

    body: Center(
      child: Text(
        'App dev is amazing!',
      ),
    ),

 );
```



```
Placeholder()
```



Text & TextStyle

ElevatedButton

Scaffold

Placeholder

Demo

StatelessWidget

StatefullWidget

StatelessWidget

StatefullWidget

FloatingActionButton

Icon

Center

TextField

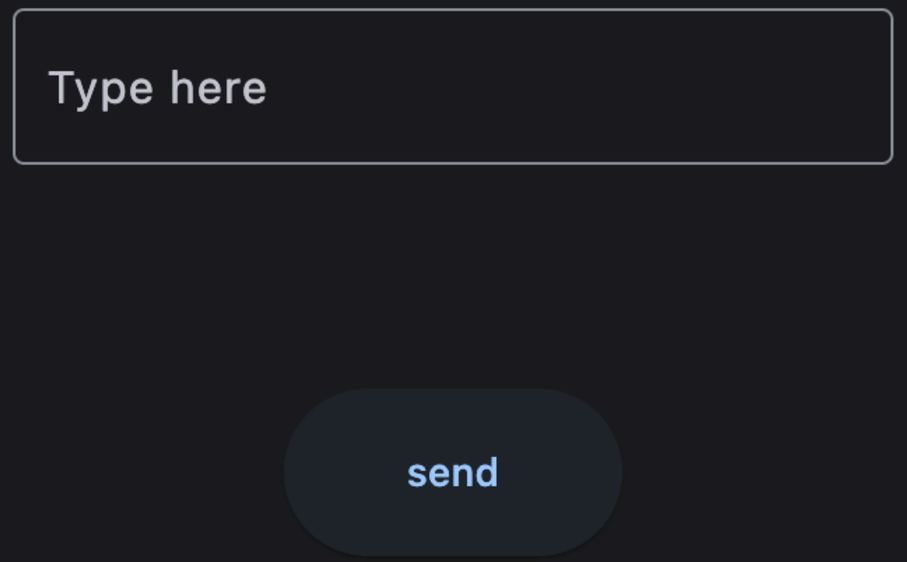
Column

Row

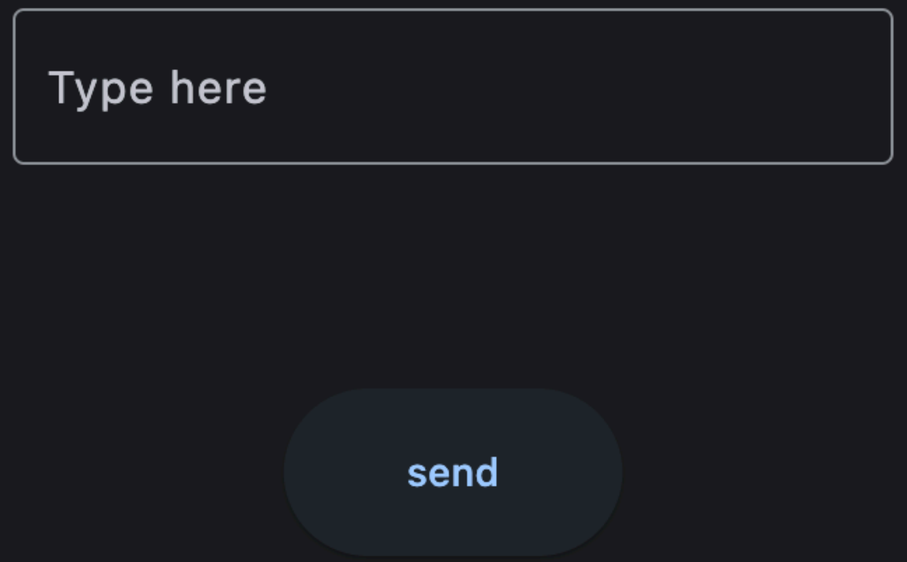
```
TextField()
```

```
TextField(
  decoration: InputDecoration(
    border: OutlineInputBorder(),
    labelText: 'Type here’,
  )
)
```

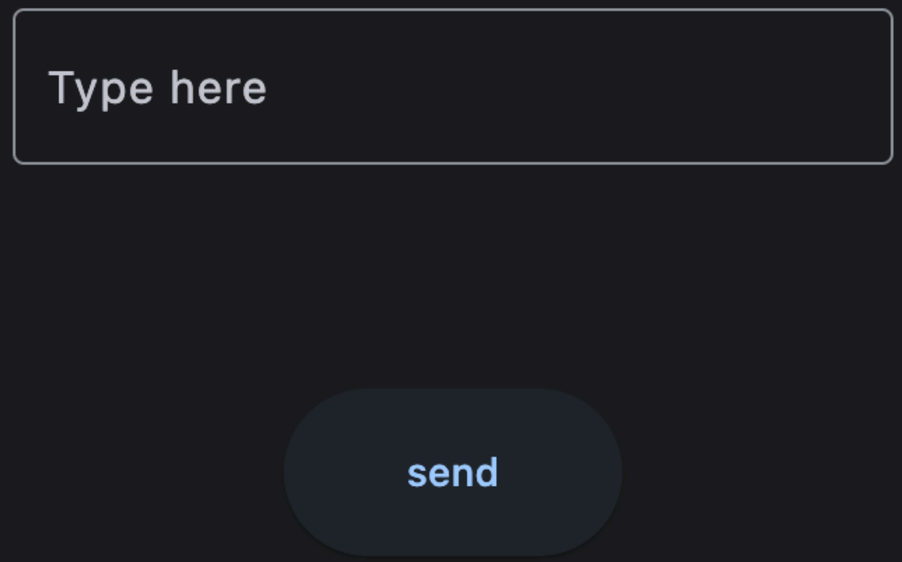
```
Column()
```



```
Column(
  children: []
)
```



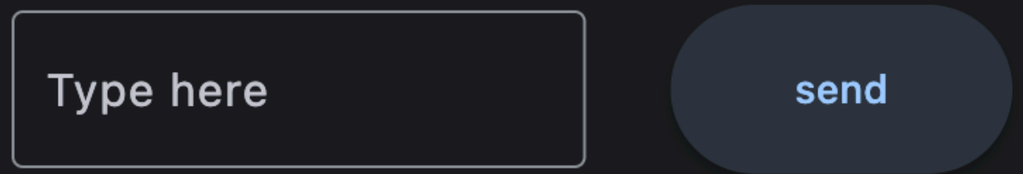
```
Column(
  children: [
    TextField(…),
    SizedBox(height: 80),
    ElevatedButton(…)
  ]
)
```



```
Row()
```

```
Row(
  children: []
)
```

```
Row(
  children: [
    Expanded (
      child: TextField(…),
    ),
    SizedBox(width: 30),
    ElevatedButton(…)
  ]
)
```



TextField

Column

Row

SizedBox

Expanded

Demo

TextField & TextEditingController

Column

Row

SizedBox

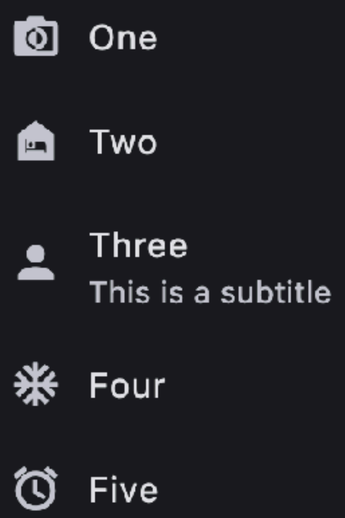
Expanded

Padding

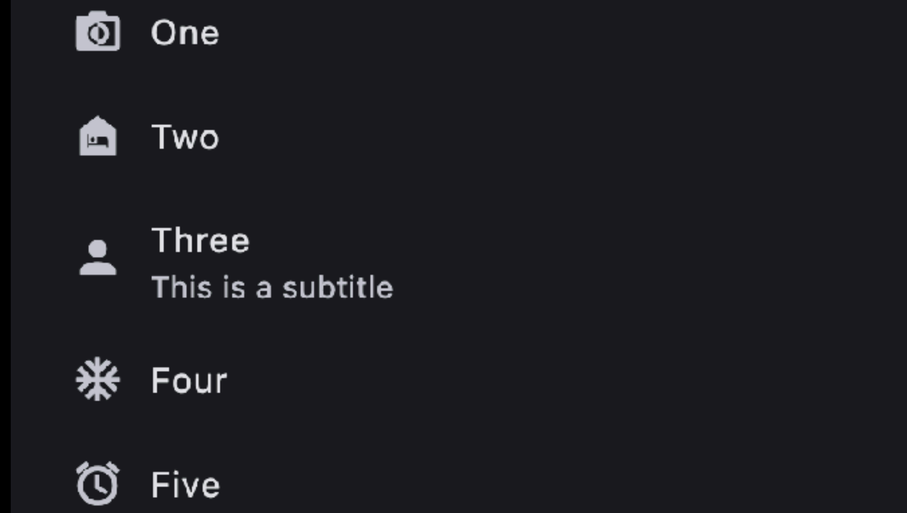
ListView

ListView.builder

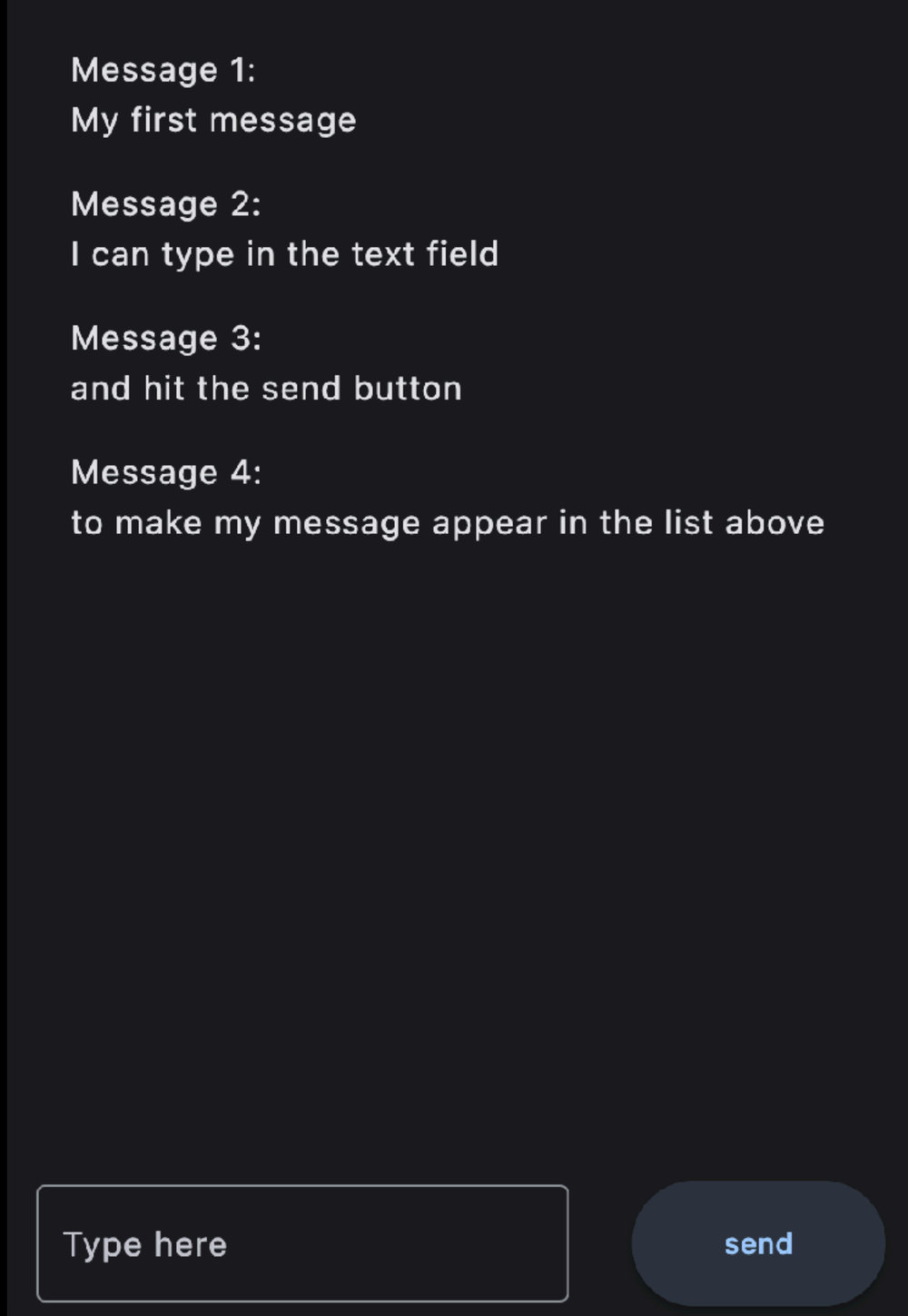
```
ListView()
```



```
ListView(
    children: [
      ListTile(
        title: Text('one'),
        leading: Icon(…),
      );
    …
    ]
)
```



```
ListView.builder(
    itemCount: messages.length,
    itemBuilder: (context, index) {
    return ListTile(…);
    },
)
```



```
List<String> messages = [];


ListView.builder(

   itemCount: messages.length,

   itemBuilder: (context, index) {

   return ListTile(
      title: Text(
         'Message ${index + 1}:\n${messages[index]}'
         ),
      );

   },

)
```

Message 1:
My first message

Message 2:
I can type in the text field

Message 3:
and hit the send button

Message 4:
to make my message appear in the list above

Type here

send

ListView

ListView.builder

ListTile

Text

ElevatedButton

Scaffold

Placeholder

StatelessWidget

StatefullWidget

FloatingActionButton

Icon

TextField

Column

Row

SizedBox

Expanded

Padding

API

Application programming interface

Our App

Message 1:
My first message

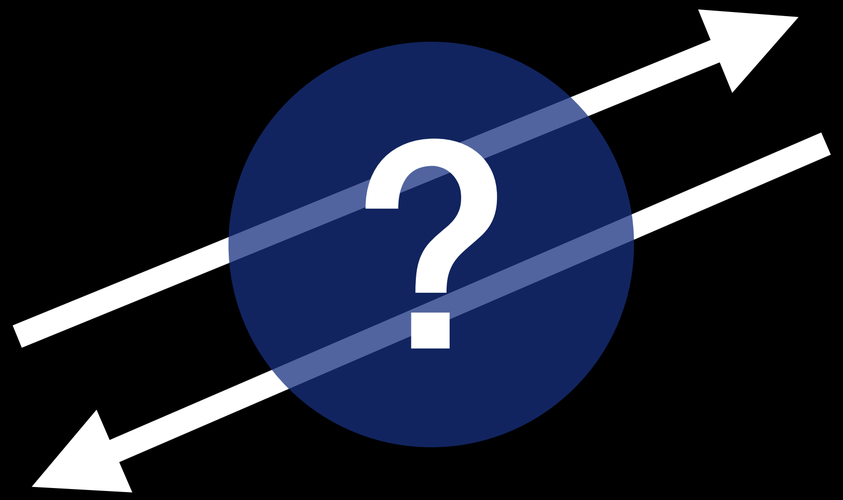
Message 2:
I can type in the text field

Message 3:
and hit the send button

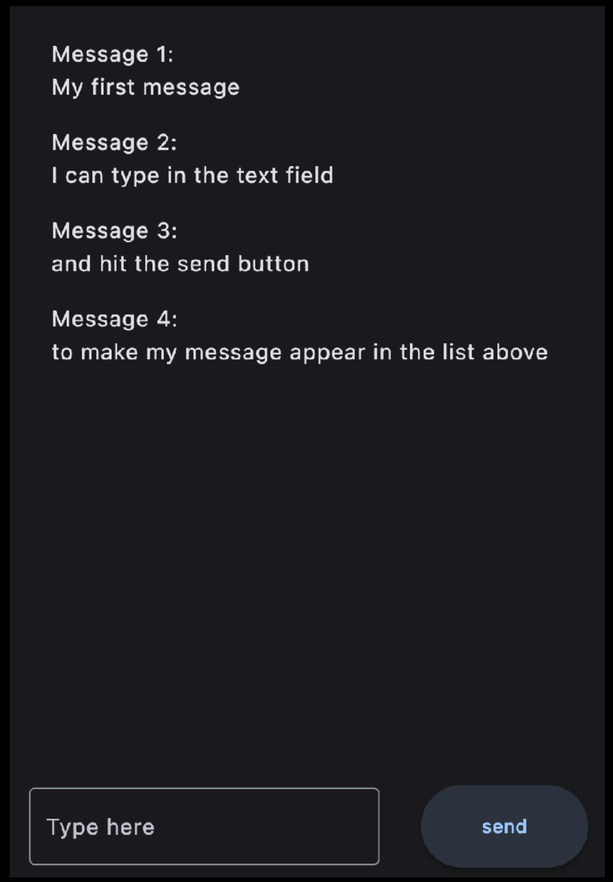
Message 4:
to make my message appear in the list above

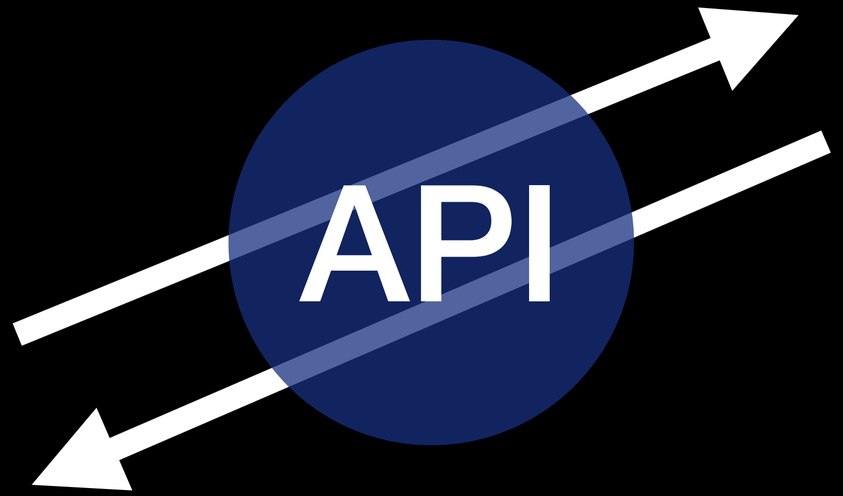
Type here

send



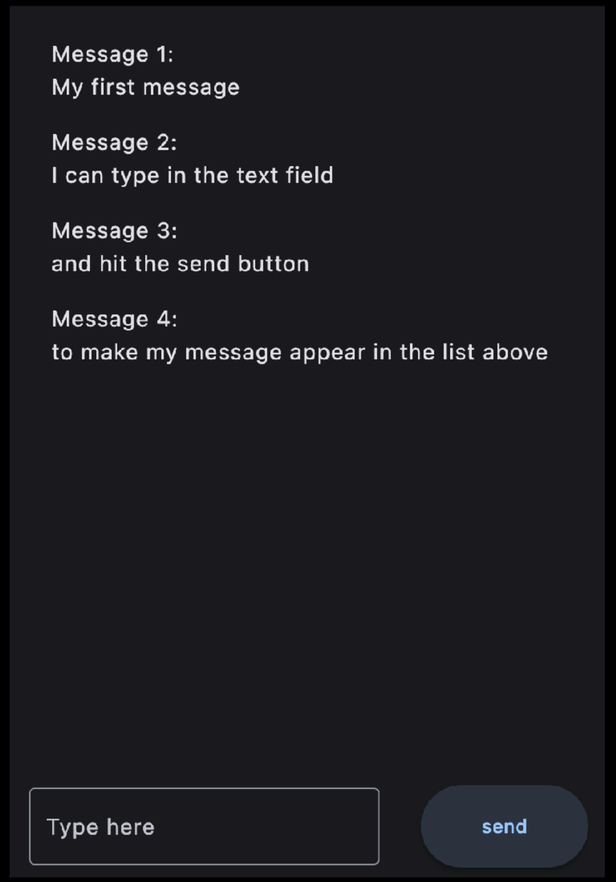
Our App


Message 1:
My first message
Message 2:
I can type in the text field
Message 3:
and hit the send button
Message 4:
to make my message appear in the list above
Type here
send


API

Gemini

Our App



```
final model = GenerativeModel(
    model: 'gemini-pro',
    apiKey: apiKey
);
```

Summary

Text ElevatedButton Scaffold Placeholder

StatelessWidget StatefullWidget FloatingActionButton

Icon Column TextField Row SizedBox

Expanded Padding ListView ListTile Center

ListView.builder API GenerativeModel

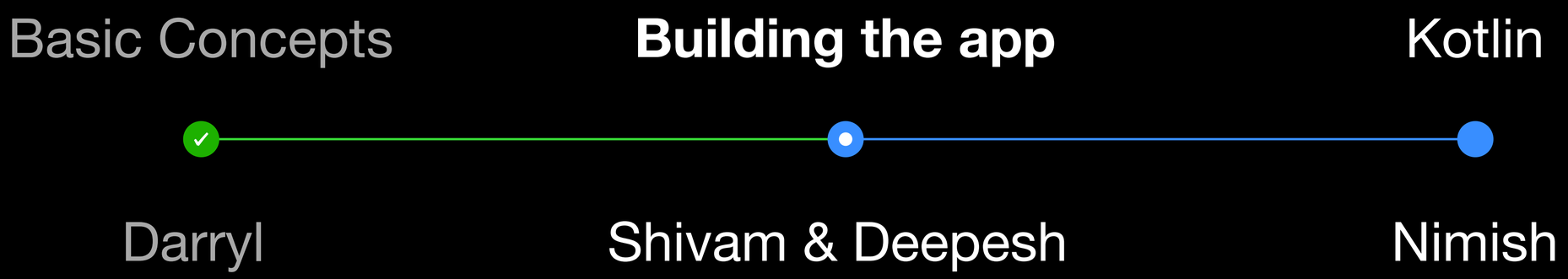
Text ElevatedButton Scaffold Placeholder

StatelessWidget StatefullWidget FloatingActionButton

Icon Column TextField Row SizedBox

Expanded Padding ListView ListTile Center

ListView.builder API GenerativeModel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Building the app