

## Problem 1

Create a program that asks the user to enter their name and their age. Print out a message that tells how many years they have to be 100 years old

```
import 'dart:io';

void main() {
  print(' Enter the name:');
  String name = stdin.readLineSync()!;
  print('Enter your age');
  int age = int.parse(stdin.readLineSync()!);
  print('the years have to be 100 years old:${100 - age}');
}
```

## Problem 2

.Ask the user for a number and determine whether the number is even or not

```
import 'dart:io';

void main() {
  print("Enter the numbr:");
  int num = int.parse(stdin.readLineSync());
  if (num % 2 == 0) {
    print(' $num is even');
  } else {
    print('$num is odd');
  }
}
```

### Problem 3

Create a program that asks the user for a number and then prints out a list of all the .divisors of that number

```
import 'dart:io';

void main() {
  print("Enter the numbr:");
  int num = int.parse(stdin.readLineSync());
  print(' the divisors of $num are:');
  for (int i = 1; i <= num; i++) {
    if (num % i == 0) {
      print(i);
    }
  }
}
```

## Problem 4

Take a list, say for example this one

`a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]` and write a program that prints out all the elements of the list that are less than 5

```
void main() {  
    List<int> nums = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89];  
    print('The numbers in list are less than 5 are:');  
    for (int i = 0; i < nums.length; i++) {  
        if (nums[i] < 5) {  
            print(nums[i]);  
        }  
    }  
}
```

## Problem 5

Write a program that takes a list of numbers for example  
 $a = [5, 10, 15, 20, 25]$  and makes a new list of only the first and last elements of the given list. For practice,  
.write this code inside a function

```
void main() {  
    List a = [5, 10, 15, 20, 25];  
    List result = nums(a);  
    print(result);  
}  
  
List nums(List Anums) {  
    List Bnums = [];  
    for (var i = 0; i < Anums.length; i++) {  
        if (Anums[i] == Anums[0] || Anums[i] == Anums[Anums.length - 1]) {  
            Bnums.add(Anums[i]);  
        }  
    }  
    return Bnums;  
}
```

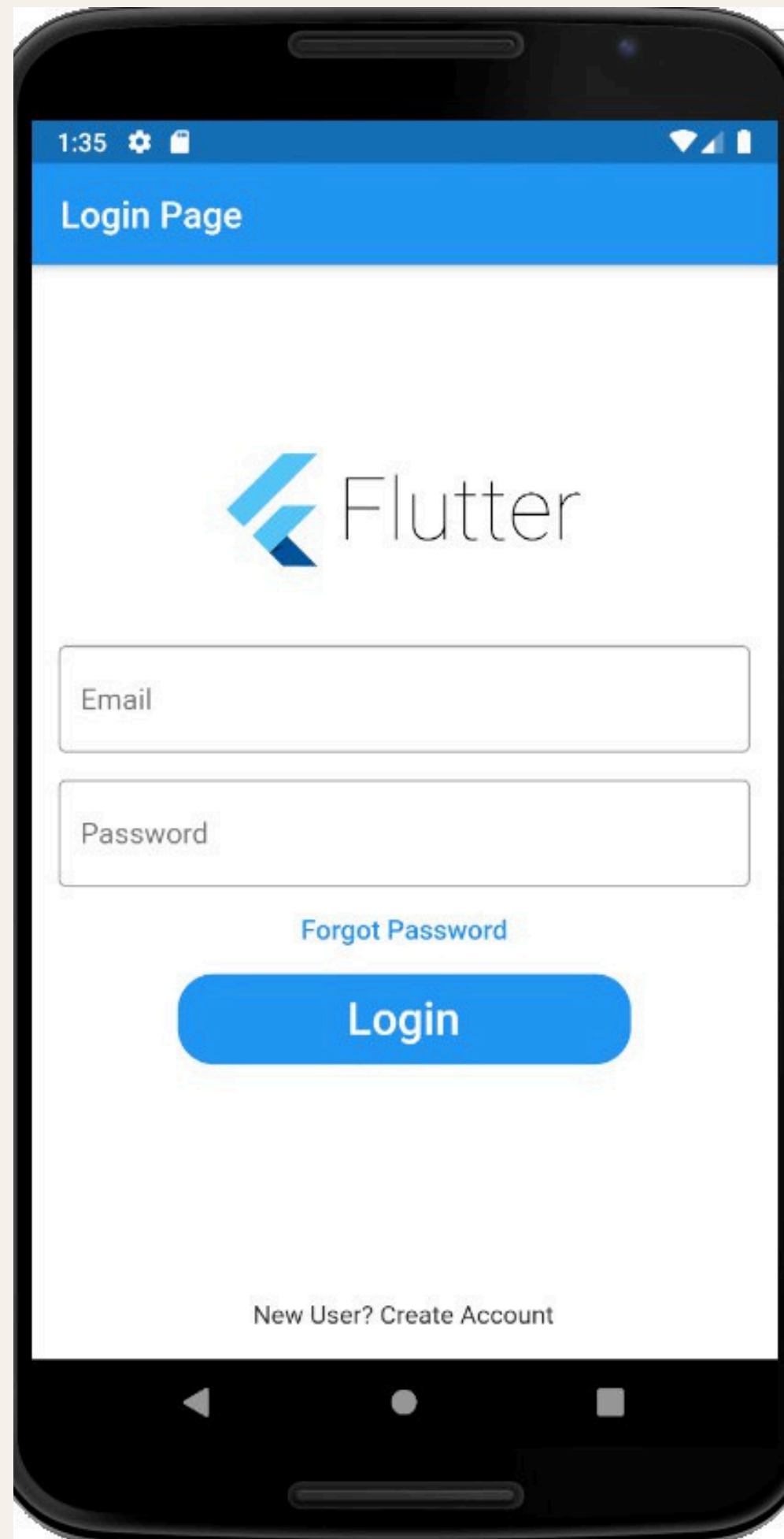
## Problem 6

Given a list of integers, write a function that finds the max and min integers in the list, without using any library functions in Dart

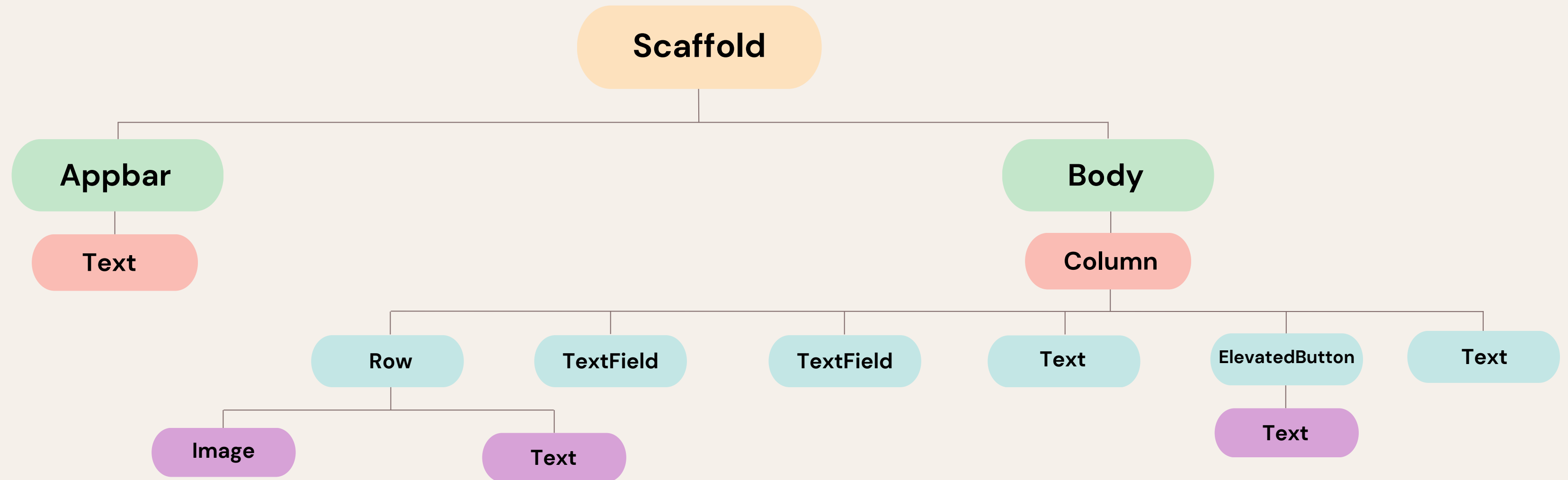
```
import 'dart:io';

void main() {
  List A = [];
  for (int i = 0; i < 5; i++) {
    A.add(int.parse(stdin.readLineSync()!));
  }
  Find_Min_Max(A);
}

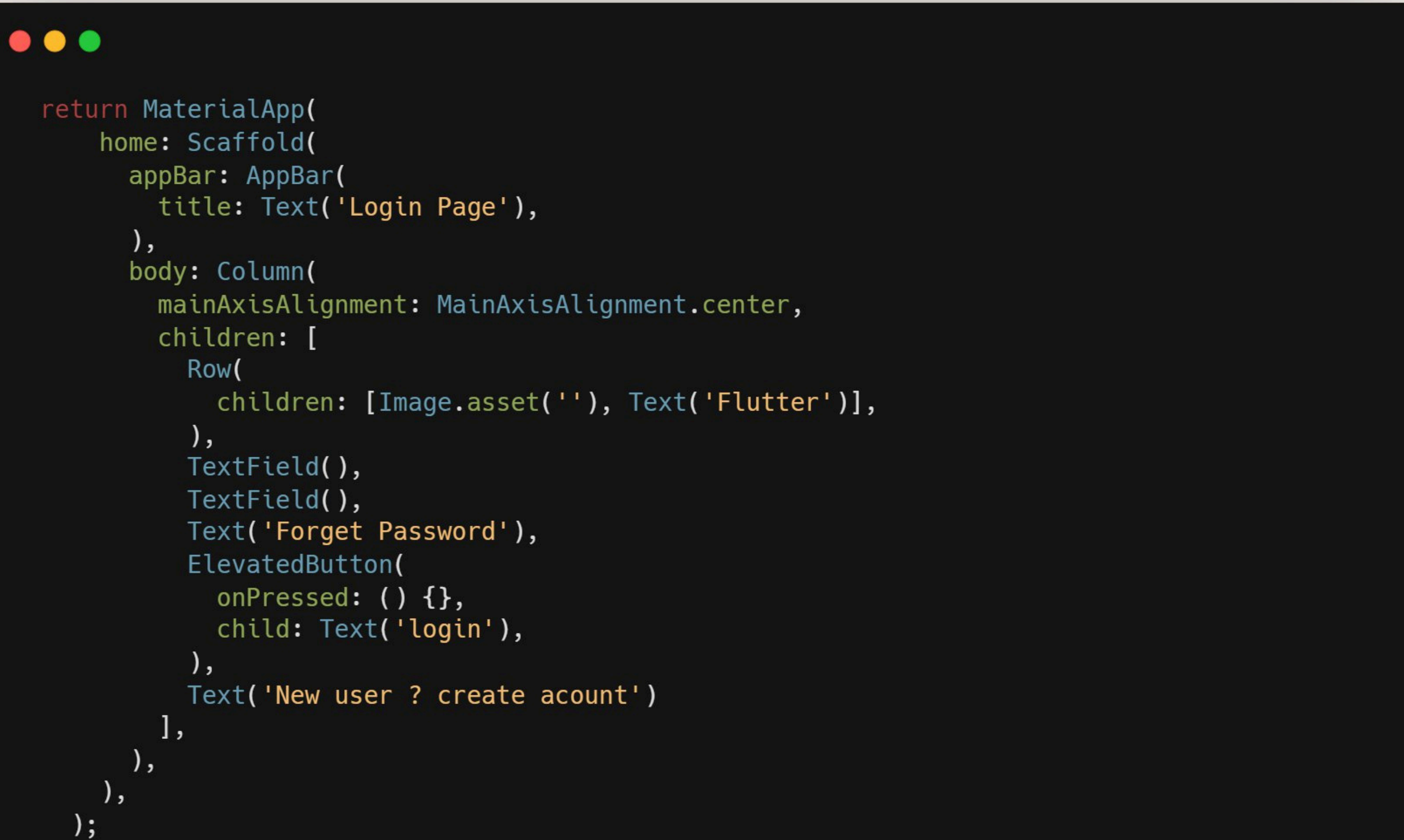
void Find_Min_Max(List nums) {
  int max = nums[0];
  int min = nums[0];
  for (var i = 0; i < nums.length; i++) {
    if (nums[i] > max) {
      max = nums[i];
    }
    if (nums[i] < min) {
      min = nums[i];
    }
  }
  print('max number is :$max');
  print('min number is :$min');
}
```



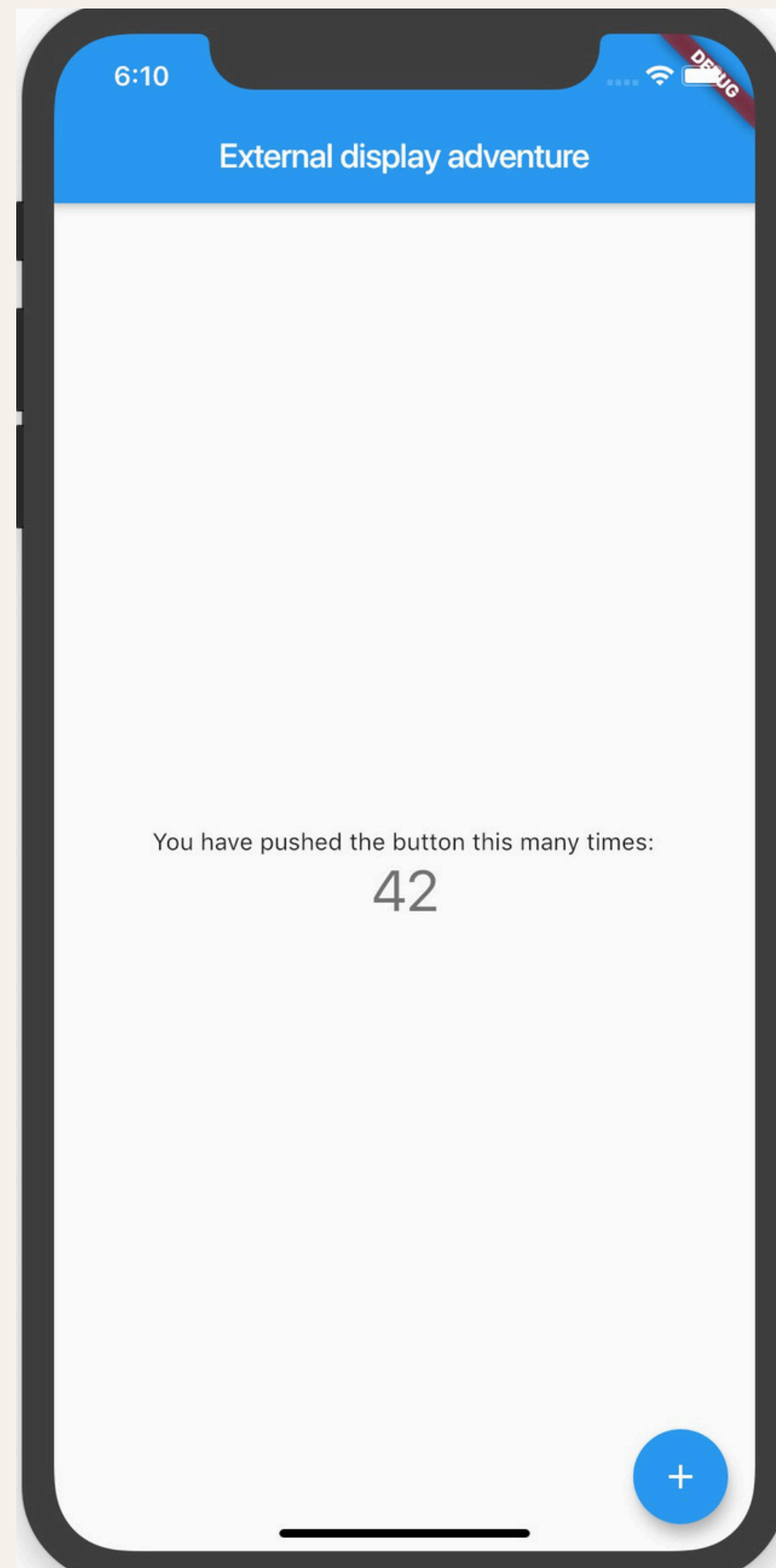
# SCREEN 1



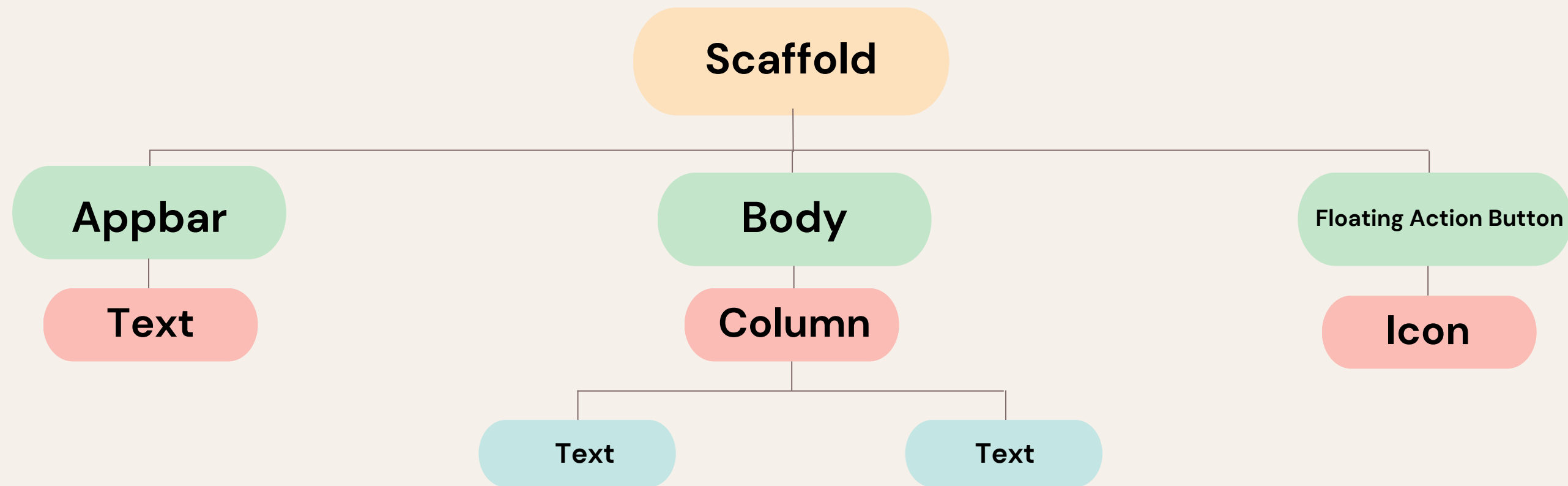




```
return MaterialApp(  
  home: Scaffold(  
    appBar: AppBar(  
      title: Text('Login Page'),  
    ),  
    body: Column(  
      mainAxisAlignment: MainAxisAlignment.center,  
      children: [  
        Row(  
          children: [Image.asset(''), Text('Flutter')],  
        ),  
        TextField(),  
        TextField(),  
        Text('Forget Password'),  
        ElevatedButton(  
          onPressed: () {},  
          child: Text('login'),  
        ),  
        Text('New user ? create account')  
      ],  
    ),  
  ),  
);
```

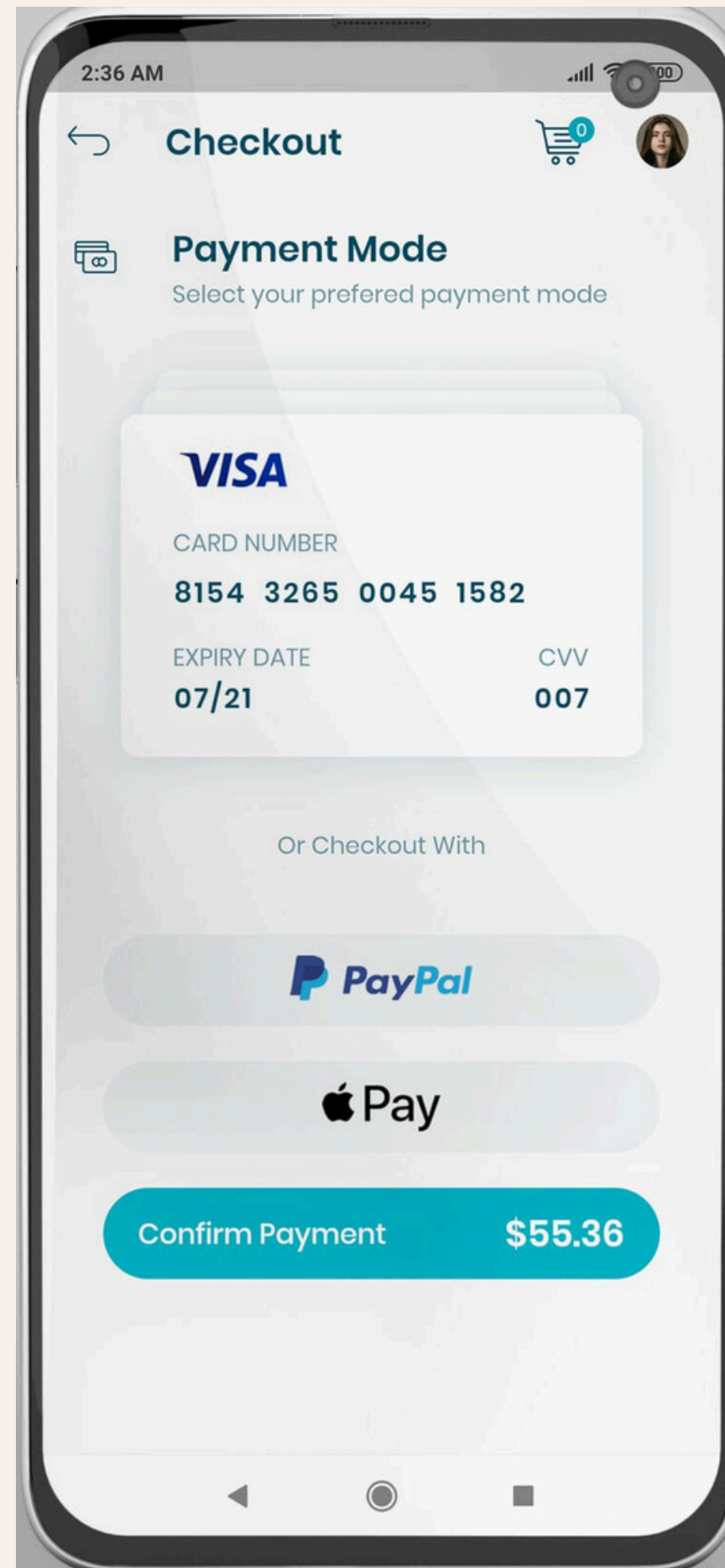


# SCREEN 2

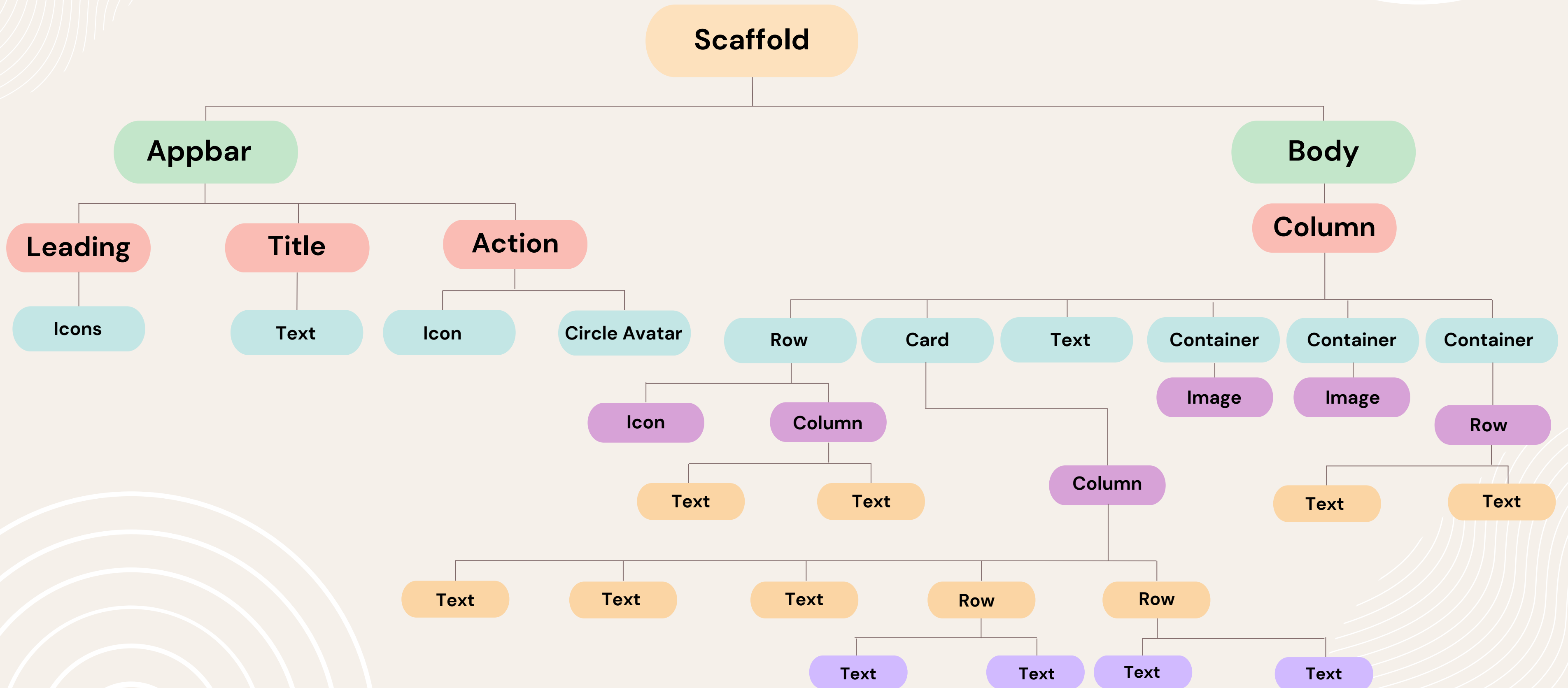




```
return MaterialApp(  
  home: Scaffold(  
    appBar: AppBar(  
      title: Text('External display adventure'),  
      centerTitle: true,  
    ),  
    floatingActionButton: FloatingActionButton(  
      onPressed: () {  
        setState(() {  
          count++;  
        });  
      },  
      child: Icon(Icons.add),  
    ),  
    body: Column(  
      mainAxisAlignment: MainAxisAlignment.center,  
      children: [  
        Text('You have pushed the button this many times:'),  
        Text('$count')  
      ],  
    ),  
  ),  
);
```



# SCREEN 3





```
return MaterialApp(  
  home: Scaffold(  
    appBar: AppBar(  
      leading: Icon(Icons.arrow_back_ios),  
      title: Text('checkout'),  
      actions: [  
        Icon(Icons.shopping_cart),  
        CircleAvatar(  
          child: Image.asset(''),  
        )  
      ],  
    ),  
    body: Column(  
      children: [  
        Card(  
          child: Column(  
            children: [  
              Text(''),  
              Text(''),  
              Text(''),  
              Row(  
                children: [  
                  Text(''),  
                  Text(''),  
                ],  
              ),  
              Row(  
                children: [  
                  Text(''),  
                  Text(''),  
                ],  
              )  
            ],  
          ),  
        ),  
        Text(''),  
        Container(  
          child: Image.asset(''),  
        ),  
        Container(  
          child: Image.asset(''),  
        ),  
        Container(  
          child: Row(  
            children: [Text(''), Text('')],  
          ),  
        ),  
      ],  
    ),  
  ),  
);
```