



## Code

### Main.dart

```
import 'package:flutter/material.dart';
import 'package:madlab8/recipeDetail.dart';
import 'package:splashscreen/splashscreen.dart';
import 'dart:math';

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'MAD LAB 8',
      debugShowCheckedModeBanner: false,
      home: Splash(),
      theme: ThemeData(
        fontFamily: "SFPro"
      ),
    );
  }
}

class Splash extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return SplashScreen(
      seconds: 5,
      backgroundColor: Colors.white,
      image: Image.asset('files/flutter-logo.png'),
      loaderColor: Colors.blue,
      photoSize: 150,
      title: Text("Recipe Book", style: TextStyle(fontSize: 30)),
      navigateAfterSeconds: RecipeView(),
    );
  }
}

class RecipeView extends StatefulWidget {
  @override
  _RecipeViewState createState() => _RecipeViewState();
}

class _RecipeViewState extends State<RecipeView> {
  Random random = new Random();
  List<String> recipeImages = [];
  var prepTime = [
    "30 Min",
    "20 Min",
    "10 Min",
    "40 Min",
    "60 Min",
    "50 Min"
  ];
  var recipeNames = [
    "Egg Benedict",
  ]
}
```

```

"Mushroom Risotto",
"Full Breakfast",
"Hamburger",
"Ham and Egg Sandwich",
"Crema Brulee",
"White Chocolate Donut",
"Starbucks Coffee",
"Vegetable Curry",
"Instant Noodle with Egg",
"Noodle with BBQ Pork",
"Japanese Noodle with Pork",
"Green Tea",
"Thai Shrimp Cake",
"Angry Birds Cake",
"Ham and Cheese Panini",
];

@override
void initState() {
  super.initState();
  for (int i = 1; i < 17; i++) {
    String filename;
    if (i == 8)
      filename = "image$i.jpeg";
    else
      filename = "image$i.jpg";
    recipeImages.add(filename);
  }
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      brightness: Brightness.dark,
      elevation: 2,
      flexibleSpace: Container(decoration: BoxDecoration(color: Colors.blue),),
      backgroundColor: Colors.transparent,
      centerTitle: true,
      title: Text("Recipes", style: TextStyle(fontSize: 26, color:
Colors.white),),
      automaticallyImplyLeading: false,
    ),
    body: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        Expanded(
          child: GridView.count(
            padding: EdgeInsets.fromLTRB(5, 5, 5, 0),
            crossAxisCount: 3,
            crossAxisSpacing: 3,
            mainAxisSpacing: 5,
            childAspectRatio: 100/140,
            children: List.generate(recipeImages.length, (index) {
              ///TASK 1
              /*return ClipRRect(
                borderRadius: BorderRadius.circular(10),
                child: Image.asset(
                  "files/recipeImages/" + recipeImages[index], errorBuilder:

```

```

(ctx,obj,trace) => Icon(Icons.error),
    fit: BoxFit.fill,
  ),
),*/
///TASK 3
String randomNum = prepTime[random.nextInt(prepTime.length)];
return GestureDetector(
  onTap: (){Navigator.of(context).push(MaterialPageRoute(builder:
(context) => RecipeDetailsScreen(recipeNames[index], randomNum,
recipeImages[index])));},
  child: Card(
    child: Container(
      width: MediaQuery.of(context).size.width,
      child: Column(
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children: [
          ClipRRect(
            borderRadius: BorderRadius.circular(10),
            child: Image.asset("files/recipeImages/" +
recipeImages[index], errorBuilder: (ctx,obj,trace) => Icon(Icons.error), height:
110,)
          ),
          Column(
            children: [
              Text(recipeNames[index], textAlign:
TextAlign.center,),
              Text("Prep time: " + randomNum, textAlign:
TextAlign.center)
            ],
          ),
        ],
      ),
    ),
  ),
);
}
}

```

## recipeDetail

```
import 'package:flutter/material.dart';

class RecipeDetailsScreen extends StatefulWidget {
  String recipeName;
  String recipeTime;
  String recipeImage;
  RecipeDetailsScreen(this.recipeName, this.recipeTime, this.recipeImage);
  @override
  _RecipeDetailsScreenState createState() => _RecipeDetailsScreenState();
}

class _RecipeDetailsScreenState extends State<RecipeDetailsScreen> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        automaticallyImplyLeading: true,
        centerTitle: true,
        title: Text("Recipe Detail View", style: TextStyle(fontSize: 26,
fontWeight: FontWeight.w800)),
        backgroundColor: Colors.blue,
      ),
      body: SingleChildScrollView(
        child: Padding(
          padding: EdgeInsets.symmetric(vertical: 10, horizontal: 25),
          child: Column(
            children: [
              SizedBox(height: 80,),
              Image.asset("files/recipeImages/" + widget.recipeImage,
errorBuilder: (ctx,obj,trace) => Icon(Icons.error)),
              SizedBox(height: 20,),
              Text(widget.recipeName, style: TextStyle(fontSize: 24, fontWeight:
FontWeight.w800)),
              SizedBox(height: 20,),
              Text("Prep time: ${widget.recipeTime}", style: TextStyle(fontSize:
20, fontWeight: FontWeight.w800)),
              SizedBox(height: 20,),
              Text("Amazing recipe for your ultimate cravings! Guaranteed to get
you licking your fingers.")
            ],
          ),
        ),
      ),
    );
  }
}
```