README.md:

health_buddy

A new Flutter project.

Getting Started

This project is a starting point for a Flutter application.

A few resources to get you started if this is your first Flutter project:

- [Lab: Write your first Flutter app](https://docs.flutter.dev/get-started/codelab)
- [Cookbook: Useful Flutter samples](https://docs.flutter.dev/cookbook)

For help getting started with Flutter development, view the [online documentation](https://docs.flutter.dev/), which offers tutorials, samples, guidance on mobile development, and a full API reference.

Pubspec.yaml:

name: health_buddy

description: "A new Flutter project."

The following line prevents the package from being accidentally published to # pub.dev using `flutter pub publish`. This is preferred for private packages. publish_to: 'none' # Remove this line if you wish to publish to pub.dev

The following defines the version and build number for your application.

A version number is three numbers separated by dots, like 1.2.43

followed by an optional build number separated by a +.

Both the version and the builder number may be overridden in flutter

build by specifying --build-name and --build-number, respectively.

In Android, build-name is used as versionName while build-number used as versionCode.

Read more about Android versioning at https://developer.android.com/studio/publish/versioning

In iOS, build-name is used as CFBundleShortVersionString while build-number is used as CFBundleVersion.

Read more about iOS versioning at

#

https://developer.apple.com/library/archive/documentation/General/Reference/InfoPlistKeyReference/Articles/CoreFoundationKeys.html

In Windows, build-name is used as the major, minor, and patch parts

of the product and file versions while build-number is used as the build suffix.

version: 1.0.0+1

environment:

sdk: ^3.5.3

Dependencies specify other packages that your package needs in order to work.

```
# To automatically upgrade your package dependencies to the latest versions
# consider running `flutter pub upgrade --major-versions`. Alternatively,
# dependencies can be manually updated by changing the version numbers below to
# the latest version available on pub.dev. To see which dependencies have newer
# versions available, run `flutter pub outdated`.
dependencies:
 flutter:
  sdk: flutter
 cupertino icons: ^1.0.8
 get: ^4.6.6
 csv: ^6.0.0
 lottie: ^3.1.3
 animated_bottom_navigation_bar: ^1.3.3
 http: ^1.2.2
 shared preferences: ^2.3.3
 sqflite: ^2.4.0
 path: ^1.9.0
 carousel slider: ^5.0.0
dev_dependencies:
 flutter test:
  sdk: flutter
 flutter_lints: ^4.0.0
# For information on the generic Dart part of this file, see the
# following page: https://dart.dev/tools/pub/pubspec
# The following section is specific to Flutter packages.
flutter:
 # The following line ensures that the Material Icons font is
 # included with your application, so that you can use the icons in
 # the material Icons class.
 uses-material-design: true
 # To add assets to your application, add an assets section, like this:
 assets:
  - assets/images/doctor-5216835 640.webp
  - assets/images/logo.jpg
  - assets/images/home_lottie.json
  - assets/csv/food list csv.csv
  - assets/images/greeting_img1.png
 # An image asset can refer to one or more resolution-specific "variants", see
```

An image asset can refer to one or more resolution-specific "variants", see # https://flutter.dev/to/resolution-aware-images

For details regarding adding assets from package dependencies, see

```
# To add custom fonts to your application, add a fonts section here,
 # in this "flutter" section. Each entry in this list should have a
 # "family" key with the font family name, and a "fonts" key with a
 # list giving the asset and other descriptors for the font. For
 # example:
 # fonts:
 # - family: Schyler
 # fonts:
      - asset: fonts/Schyler-Regular.ttf
     - asset: fonts/Schyler-Italic.ttf
       style: italic
 #
 # - family: Trajan Pro
 # fonts:
 #
      - asset: fonts/TrajanPro.ttf
      - asset: fonts/TrajanPro_Bold.ttf
       weight: 700
 # For details regarding fonts from package dependencies,
 # see https://flutter.dev/to/font-from-package
build.gradle:
plugins {
  id "com.android.application"
  id "kotlin-android"
  // The Flutter Gradle Plugin must be applied after the Android and Kotlin Gradle plugins.
  id "dev.flutter.flutter-gradle-plugin"
}
android {
  namespace = "com.example.health_buddy"
  compileSdk = flutter.compileSdkVersion
  ndkVersion = flutter.ndkVersion
  compileOptions {
    sourceCompatibility = JavaVersion.VERSION_1_8
    targetCompatibility = JavaVersion.VERSION_1_8
  }
  kotlinOptions {
    jvmTarget = JavaVersion.VERSION_1_8
  }
  defaultConfig {
    // TODO: Specify your own unique Application ID
```

```
(https://developer.android.com/studio/build/application-id.html).
    applicationId = "com.example.health buddy"
    // You can update the following values to match your application needs.
    // For more information, see: https://flutter.dev/to/review-gradle-config.
    minSdk = flutter.minSdkVersion
    targetSdk = flutter.targetSdkVersion
    versionCode = flutter.versionCode
    versionName = flutter.versionName
  }
  buildTypes {
    release {
      // TODO: Add your own signing config for the release build.
      // Signing with the debug keys for now, so `flutter run --release` works.
      signingConfig = signingConfigs.debug
    }
  }
}
flutter {
  source = "../.."
}
main.dart:
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:health_buddy/Pages/splash_screen.dart';
void main() async {
 WidgetsFlutterBinding.ensureInitialized();
runApp(const MyApp());
class MyApp extends StatelessWidget {
 const MyApp({super.key});
 @override
 Widget build(BuildContext context) {
  return GetMaterialApp(
   debugShowCheckedModeBanner: false,
   title: 'Health Buddy',
   theme: ThemeData(
    colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
    useMaterial3: true,
   ),
```

```
home: const SplashScreen(),
  );
 }
chatbot_dart:
import 'dart:convert';
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'package:health_buddy/constants/app_color.dart';
import 'package:http/http.dart' as http;
class ChatBot extends StatefulWidget {
 const ChatBot({super.key});
 @override
 State<ChatBot> createState() => _ChatBotState();
}
class _ChatBotState extends State<ChatBot> with SingleTickerProviderStateMixin {
 final List<Map<String, String>> _messages = [];
 final TextEditingController textController = TextEditingController();
 bool isListening = false;
 bool _isTyping = false;
 late AnimationController _animationController;
 @override
 void initState() {
  super.initState();
  _animationController = AnimationController(
   vsync: this,
   duration: const Duration(milliseconds: 1000),
  )..repeat();
  _loadMessagesFromPreferences(); // Load saved messages on initialization
 @override
 void dispose() {
  _animationController.dispose();
  super.dispose();
```

```
}
Future<void> _loadMessagesFromPreferences() async {
 final prefs = await SharedPreferences.getInstance();
 final savedMessages = prefs.getString('chat messages');
 if (savedMessages != null) {
  final decodedMessages = jsonDecode(savedMessages) as List;
  setState(() {
   _messages
     .addAll(decodedMessages.map((e) => Map<String, String>.from(e)));
  });
 }
}
Future<void> _saveMessagesToPreferences() async {
 final prefs = await SharedPreferences.getInstance();
 final encodedMessages = jsonEncode( messages);
 await prefs.setString('chat_messages', encodedMessages);
}
Future<void> _sendMessage(String input) async {
 if (input.trim().isEmpty) return;
 String? text =
   "You are my nutritionist, guide me according to the text given below: \n + ${input.trim()}";
 setState(() {
  _messages.add({'text': input, 'sender': "user"});
  _isTyping = true;
 });
 textController.clear();
 await _saveMessagesToPreferences(); // Save messages after user input
 const String togetherApiKey =
   "81ae561ed7fe920dd7d30a96b82a793feab87f4e3c1cb138d6283f3df5e1e3a8";
 try {
  final response = await http.post(
   Uri.parse('https://api.together.xyz/v1/chat/completions'),
   headers: {
    'Content-Type': 'application/json',
    'Authorization': 'Bearer $togetherApiKey',
   },
   body: jsonEncode({
    'model': 'meta-llama/Meta-Llama-3.1-8B-Instruct-Turbo',
    'messages': [
```

```
{'role': 'system', 'content': 'You are a helpful gym mentor.'},
     {'role': 'user', 'content': text},
    ],
   }),
  );
  if (response.statusCode == 200) {
   final data = jsonDecode(response.body);
   final assistantMessage = data['choices'][0]['message']['content'];
   setState(() {
    _messages.add({'text': assistantMessage, 'sender': 'assistant'});
   });
   await _saveMessagesToPreferences(); // Save messages after bot response
  } else {
   throw Exception('Failed to fetch response');
 } catch (error) {
  setState(() {
   _messages.add({
    'text': "I'm sorry, I couldn't process your request at the moment.",
    "sender": "assistant"
   });
  });
 } finally {
  setState(() {
   _isTyping = false;
  });
 }
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  backgroundColor: Colors.black,
  appBar: AppBar(
   backgroundColor: AppColors.cardColor,
   title: const Text(
    'Diet Assistant',
    style: TextStyle(color: Colors.white),
   centerTitle: true,
  ),
  body: Padding(
   padding: const EdgeInsets.symmetric(vertical: 60.0),
   child: Column(
    children: [
```

```
// Chat display
Expanded(
 child: ListView.builder(
  padding: const EdgeInsets.all(16.0),
  itemCount: messages.length + ( isTyping? 1:0),
  itemBuilder: (context, index) {
   if (index == _messages.length && _isTyping) {
    // Typing indicator
    return Align(
     alignment: Alignment.centerLeft,
     child: Container(
      margin: const EdgeInsets.symmetric(vertical: 8.0),
      padding: const EdgeInsets.all(12.0),
      decoration: BoxDecoration(
       color: Colors.grey[850],
       borderRadius: BorderRadius.circular(16),
      ),
      child: Row(
       mainAxisSize: MainAxisSize.min,
       children: List.generate(3, (dotIndex) {
         return AnimatedBuilder(
          animation: _animationController,
          builder: (context, child) {
           return Opacity(
            opacity: (dotIndex ==
                 (_animationController.value * 3)
                     .floor() %
                   3)
              ? 1
              : 0.3,
            child: const Text(
             style: TextStyle(
               color: Colors.white, fontSize: 18),
            ),
           );
          },
        );
       }),
      ),
     ),
    );
   final message = _messages[index];
   final isUser = message['sender'] == 'user';
   return Align(
```

```
alignment:
      isUser? Alignment.centerRight: Alignment.centerLeft,
    child: Container(
     margin: const EdgeInsets.symmetric(vertical: 8.0),
     padding: const EdgeInsets.all(12.0),
     constraints: BoxConstraints(
      maxWidth: MediaQuery.of(context).size.width * 0.75,
     ),
     decoration: BoxDecoration(
      color: isUser? Colors.blueGrey[800]: Colors.grey[850],
      borderRadius: BorderRadius.only(
       topLeft: const Radius.circular(16),
       topRight: const Radius.circular(16),
       bottomLeft: Radius.circular(isUser? 16:0),
       bottomRight: Radius.circular(isUser? 0:16),
      ),
     ),
     child: Text(
      message['text']!,
      style: const TextStyle(color: Colors.white),
     ),
    ),
   );
  },
),
// Input field at the bottom
Container(
 padding:
   const EdgeInsets.symmetric(horizontal: 8.0, vertical: 4.0),
 decoration: BoxDecoration(
  color: Colors.transparent,
  boxShadow: [
   BoxShadow(
    color: Colors.black.withOpacity(0.3),
    offset: const Offset(0, -2),
    blurRadius: 6,
   ),
  ],
 ),
 child: Row(
  crossAxisAlignment: CrossAxisAlignment.center,
  mainAxisAlignment: MainAxisAlignment.center,
  children: [
   Expanded(
    child: TextField(
     controller: _textController,
     style: const TextStyle(color: Colors.white),
```

```
decoration: InputDecoration(
             hintText: 'Type your message...',
             hintStyle: TextStyle(color: Colors.grey[700]),
             filled: true,
             fillColor: AppColors.cardColor,
             border: OutlineInputBorder(
              borderRadius: BorderRadius.circular(25.0),
              borderSide: BorderSide.none,
             ),
            ),
           ),
          ),
          const SizedBox(width: 8),
          IconButton(
           icon: const Icon(Icons.send, color: Colors.black),
           style: ButtonStyle(
            shape: WidgetStatePropertyAll(
             RoundedRectangleBorder(
              borderRadius: BorderRadius.circular(12),
             ),
            ),
            backgroundColor:
              const WidgetStatePropertyAll(Colors.blueAccent),
            padding: const WidgetStatePropertyAll(
             EdgeInsets.all(13),
            ),
           ),
           onPressed: () => _sendMessage(_textController.text),
        ],
       ),
      ),
   ),
  );
foodList_controller.dart:
import 'dart:convert';
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:health_buddy/Controllers/home_controller.dart';
import 'package:health_buddy/Modals/food_modal.dart';
```

```
import 'package:shared_preferences/shared_preferences.dart';
class FoodListController extends GetxController {
 List<List<FoodModal>> userFoodLists = [];
 List<String> listTitles = [];
 List<FoodModal> foodList = [];
 List<bool> selectedItems = [];
 HomeController homeController = Get.find<HomeController>();
 @override
 void onInit() {
  foodList = homeController.foodList;
  userFoodLists = homeController.userCustomFoodLists;
  listTitles = homeController.userCustomFoodListTitles;
  selectedItems = List<bool>.filled(foodList.length, false);
  super.onInit();
}
 void getFoodItemList() async {
  foodList = Get.find<HomeController>().foodList;
  selectedItems = List<bool>.filled(foodList.length, false);
  update();
}
 void createFoodList(String title) {
  List<FoodModal> selectedFoods = [];
  for (int i = 0; i < foodList.length; i++) {
   if (selectedItems[i]) {
    selectedFoods.add(foodList[i]);
   }
  }
  if (selectedFoods.isNotEmpty) {
   userFoodLists.add(selectedFoods);
   listTitles.add(title);
   update();
  }
  saveData();
  update();
}
 void refineFoodListByTempreature(double tempreature) {
  int tempRange;
  if (tempreature < 36.5) {
```

```
tempRange = 1;
 Get.snackbar(
  "Temperature Alert",
  "Your body temperature is Low.",
  snackPosition: SnackPosition.TOP,
  backgroundColor: Colors.grey.shade800,
  colorText: Colors.white,
  margin: const EdgeInsets.symmetric(horizontal: 15, vertical: 10),
  borderRadius: 10,
  borderColor: Colors.cyan,
  borderWidth: 2,
  icon: Icon(Icons.thermostat, color: Colors.cyan, size: 24),
  padding: const EdgeInsets.all(16),
  animationDuration: const Duration(milliseconds: 300),
  barBlur: 15,
  isDismissible: true,
  duration: const Duration(seconds: 5),
);
}
else if (tempreature > 37.5){
 tempRange = 2;
 Get.snackbar(
  "Temperature Alert",
  "Your body temperature is High",
  snackPosition: SnackPosition.TOP,
  backgroundColor: Colors.grey.shade900,
  colorText: Colors.white,
  margin: const EdgeInsets.symmetric(horizontal: 15, vertical: 10),
  borderRadius: 10,
  borderColor: Colors.cyan,
  borderWidth: 2,
  icon: Icon(Icons.thermostat, color: Colors.cyan, size: 24),
  padding: const EdgeInsets.all(16),
  animationDuration: const Duration(milliseconds: 300),
  barBlur: 15,
  isDismissible: true,
  duration: const Duration(seconds: 5),
 );
}
else{
 tempRange = 0;
 Get.snackbar(
  "Temperature Alert",
  "Your body temperature is Normal.",
  snackPosition: SnackPosition.TOP,
  backgroundColor: Colors.grey.shade800,
```

```
colorText: Colors.white,
   margin: const EdgeInsets.symmetric(horizontal: 15, vertical: 10),
   borderRadius: 10,
   borderColor: Colors.cyan,
   borderWidth: 2,
   icon: Icon(Icons.thermostat, color: Colors.cyan, size: 24),
   padding: const EdgeInsets.all(16),
   animationDuration: const Duration(milliseconds: 300),
   barBlur: 15,
   isDismissible: true,
   duration: const Duration(seconds: 5),
  );
 }
 List<FoodModal> refinedList = [];
 if(tempRange == 1){
  refinedList = foodList.where((food) => food.tempRate == 1).toList();
 else if( tempRange == 2){
  refinedList = foodList.where((food) => food.tempRate == 2).toList();
 else{
  refinedList = foodList;
 update();
}
void saveData() async {
 SharedPreferences sharedPreferences = await SharedPreferences.getInstance();
 sharedPreferences.setStringList("userCustomFoodListTitles", listTitles);
 List<String> userFoodListsJson = userFoodLists.map((list) {
  return jsonEncode(list.map((food) => food.toJson()).toList());
 }).toList();
 await sharedPreferences.setStringList(
   "userCustomFoodList", userFoodListsJson);
}
void updateFoodList(String listname) {}
```