Main-Dart

import 'package:flutter/material.dart';  
import 'package:http/http.dart' as http;  
import 'dart:convert';  
import 'dart:async'; //Timer-toiminnallisuutta varten  
  
void main() {  
 runApp(const OuluApp());  
}  
  
class OuluApp extends StatelessWidget {  
 const OuluApp({super.key});  
  
 @override  
 Widget build(BuildContext context) {  
 return MaterialApp(  
 title: 'Tekemistä Oulussa',  
 theme: ThemeData(primarySwatch: Colors.*green*),  
 home: const MainScreen(),  
 );  
 }  
}  
  
class MainScreen extends StatefulWidget {  
 const MainScreen({super.key});  
  
 @override  
 \_MainScreenState createState() => \_MainScreenState();  
}  
  
class \_MainScreenState extends State<MainScreen> with SingleTickerProviderStateMixin {  
 int \_selectedIndex = 0;  
 late TabController \_tabController;  
  
 final List<Widget> \_pages = [  
 IntroductionScreen(),  
 RestaurantsScreen(),  
 ImagesScreen(),  
 ];  
  
 @override  
 void initState() {  
 super.initState();  
 \_tabController = TabController(length: 3, vsync: this);  
 }  
  
 @override  
 void dispose() {  
 \_tabController.dispose();  
 super.dispose();  
 }  
  
 void \_onTabTapped(int index) {  
 setState(() {  
 \_selectedIndex = index;  
 \_tabController.index = index;  
 });  
 }  
  
 @override  
 Widget build(BuildContext context) {  
 return Scaffold(  
 appBar: AppBar(  
 title: const Text('Oulu/Uleåborg'),  
 centerTitle: true,  
 bottom: TabBar(  
 controller: \_tabController,  
 onTap: \_onTabTapped,  
 tabs: const [  
 Tab(icon: Icon(Icons.*wb\_sunny*), text: "Esittely"),  
 Tab(icon: Icon(Icons.*restaurant*), text: "Ravintolat"),  
 Tab(icon: Icon(Icons.*image*), text: "Kuvia"),  
 ],  
 ),  
 ),  
 body: Stack(  
 children: [  
 Positioned.fill(  
 child: Image.asset('assets/OULU.jpg', fit: BoxFit.cover),  
 ),  
 Column(  
 children: [  
 Expanded(child: \_pages[\_selectedIndex]),  
 ],  
 ),  
 ],  
 ),  
 );  
 }  
}  
  
class IntroductionScreen extends StatefulWidget {  
 const IntroductionScreen({super.key});  
  
 @override  
 \_IntroductionScreenState createState() => \_IntroductionScreenState();  
}  
  
class \_IntroductionScreenState extends State<IntroductionScreen> {  
 String apiKey = '72f0b362212148627cbf7bdbf653e604'; // API-avain  
 String city = 'Oulu';  
 Map<String, dynamic>? weatherData;  
 late Timer \_timer;  
  
 @override  
 void initState() {  
 super.initState();  
 fetchWeather();  
 \_startWeatherUpdate();  
 }  
  
 void \_startWeatherUpdate() {  
 \_timer = Timer.periodic(Duration(minutes: 5), (Timer t) {  
 fetchWeather();  
 });  
 }  
  
 @override  
 void dispose() {  
 \_timer.cancel();  
 super.dispose();  
 }  
  
 Future<void> fetchWeather() async {  
 final url = Uri.*parse*('https://api.openweathermap.org/data/2.5/weather?q=$city&appid=$apiKey&units=metric');  
 final response = await http.get(url);  
  
 if (response.statusCode == 200) {  
 setState(() {  
 weatherData = jsonDecode(response.body);  
 });  
 } else {  
 print('Säätiedon haku epäonnistui: ${response.statusCode}');  
 }  
 }  
  
 final List<Map<String, String>> ouluFacts = const [  
 {"title": "", "fact": "- Suomen viidenneksi isoin kaupunki"},  
 {"title": "", "fact": "Oulu on pyöräilykaupunki- laaja pyörätieverkosto"},  
 {"title": "", "fact": "Oulussa asuu yli 210 000 asukasta."},  
 {"title": "", "fact": "Oulu tunnetaan Qstock-festivaalista"},  
 {"title": "", "fact": "Oulu on tunnettu teknologiastaan ja innovaatioistaan."},  
 ];  
  
 @override  
 Widget build(BuildContext context) {  
 return ListView(  
 children: [  
 Column(  
 children: [  
 ...ouluFacts.map(  
 (fact) {  
 return Padding(  
 padding: const EdgeInsets.all(8.0),  
 child: Card(  
 shape: RoundedRectangleBorder(  
 borderRadius: BorderRadius.circular(10),  
 ),  
 elevation: 5,  
 child: Padding(  
 padding: const EdgeInsets.all(16.0),  
 child: Column(  
 crossAxisAlignment: CrossAxisAlignment.start,  
 children: [  
 Text(  
 fact['title']!,  
 style: TextStyle(fontSize: 20, fontWeight: FontWeight.*bold*),  
 ),  
 SizedBox(height: 8),  
 Text(  
 fact['fact']!,  
 style: TextStyle(fontSize: 16),  
 ),  
 ],  
 ),  
 ),  
 ),  
 );  
 },  
 ).toList(),  
 SizedBox(height: 20),  
 weatherData == null  
 ? CircularProgressIndicator()  
 : Container(  
 padding: EdgeInsets.all(16),  
 decoration: BoxDecoration(  
 color: Colors.*lightBlueAccent*.withOpacity(0.7),  
 borderRadius: BorderRadius.circular(10),  
 ),  
 child: Column(  
 mainAxisSize: MainAxisSize.min,  
 children: [  
 Text(  
 'Sää Oulussa tällä hetkellä',  
 style: TextStyle(fontSize: 18, fontWeight: FontWeight.*bold*, color: Colors.*black*),  
 ),  
 SizedBox(height: 10),  
 Text(  
 '${weatherData!['main']['temp']} °C',  
 style: TextStyle(fontSize: 30, fontWeight: FontWeight.*bold*, color: Colors.*black*),  
 ),  
 Text(  
 weatherData!['weather'][0]['description'],  
 style: TextStyle(fontSize: 16, color: Colors.*black*),  
 ),  
 ],  
 ),  
 ),  
 ],  
 ),  
 ],  
 );  
 }  
}  
class RestaurantsScreen extends StatelessWidget {  
 const RestaurantsScreen({super.key});  
  
 final List<Map<String, String>> restaurants = const [  
 {"name": "❤️ Ravintola Uleåborg 1881", "type": "🍷 Fine Dining"},  
 {"name": "❤️ Tuba Food & Lounge", "type": "🍕 Kasvisruokaa ja pizzaa"},  
 {"name": "❤️ Cafe Piha", "type": "🍩 Kahvila"},  
 {"name": "❤️ Kauppuri 5", "type": "🍔 Burgereita"},  
 {"name": "❤️ Sokeri-Jussin Kievari", "type": "🍖 Oululaisia perinneruokia"},  
 ];  
  
 @override  
 Widget build(BuildContext context) {  
 return Stack(  
 children: [  
 // Taustakuva  
 Positioned.fill(  
 child: Image.asset('assets/ravintola.jpg', fit: BoxFit.cover),  
 ),  
  
 // Ravintolalistauksen taustalla oleva valkoinen laatikko  
 Positioned.fill(  
 child: Container(  
 padding: const EdgeInsets.all(16),  
 decoration: BoxDecoration(  
 color: Colors.*white*.withOpacity(0.7), // Puoli läpikuultava tausta  
 borderRadius: BorderRadius.circular(12),  
 ),  
 child: ListView.builder(  
 itemCount: restaurants.length,  
 itemBuilder: (context, index) {  
 return Card(  
 margin: const EdgeInsets.symmetric(vertical: 8.0),  
 elevation: 5,  
 shape: RoundedRectangleBorder(  
 borderRadius: BorderRadius.circular(12),  
 ),  
 child: ListTile(  
 title: Text(  
 restaurants[index]['name']!,  
 style: const TextStyle(  
 color: Colors.*black*,  
 fontSize: 22,  
 fontWeight: FontWeight.*bold*,  
 ),  
 ),  
 subtitle: Text(  
 restaurants[index]['type']!,  
 style: const TextStyle(color: Colors.*black*, fontSize: 18),  
 ),  
 ),  
 );  
 },  
 ),  
 ),  
 ),  
 ],  
 );  
 }  
}  
  
  
  
class ImagesScreen extends StatelessWidget {  
 ImagesScreen({super.key});  
  
 final List<String> imageList = [ //kuvat oulusta  
 'assets/oulu1.jpg',  
 'assets/oulu2.jpg',  
 'assets/oulu3.jpg',  
 'assets/oulu4.jpg',  
 'assets/oulu5.jpg',  
 'assets/oulu6.jpg',  
 ];  
  
 @override //widget kuville, kuvat allekkain  
 Widget build(BuildContext context) {  
 return ListView.builder(  
 itemCount: imageList.length,  
 itemBuilder: (context, index) {  
 return Padding(  
 padding: const EdgeInsets.all(10),  
 child: Image.asset(  
 imageList[index],  
 fit: BoxFit.cover,  
 width: double.*infinity*,  
 height: 260,  
 ),  
 );  
 },  
 );  
 }  
}

pubspec.yaml

name: oulu\_tapahtumat  
description: A new Flutter project  
  
publish\_to: 'none' *# Remove this line if you are planning to publish to pub.dev*version: 1.0.0+1  
  
environment:  
 sdk: ">=2.19.0 <3.0.0"  
  
dependencies:  
 flutter:  
 sdk: flutter  
 http: ^0.13.6  
  
  
  
  
  
  
dev\_dependencies:  
 flutter\_test:  
 sdk: flutter  
  
flutter:  
 assets:  
 - assets/ravintola.jpg  
 - assets/OULU.jpg  
 - assets/oulu1.jpg  
 - assets/oulu2.jpg  
 - assets/oulu3.jpg  
 - assets/oulu4.jpg  
 - assets/oulu5.jpg  
 - assets/oulu6.jpg  
 - assets/oulu7.jpg  
  
flutter\_icons:  
 android: true  
 ios: true  
 image\_path: "assets/icon/app\_icon.png"