

19P4953

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Assignment 2

## Code

```
// ignore_for_file: use_build_context_synchronously

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

void main() {
  runApp(MaterialApp(
    title: "World Time App",
    initialRoute: '/main',
    routes: {
      '/main': (context) => const MyApp(),
      '/Display': (context) => const Display(),
    },
  ));
}

List<OnlineTime> countryList = [
  OnlineTime(location: 'Egypt', url: '/Africa/Cairo'),
  OnlineTime(location: 'Dubai', url: '/Asia/Dubai'),
  OnlineTime(location: 'Colombo', url: '/Asia/Colombo'),
  OnlineTime(location: 'Hong Kong', url: '/Asia/Hong_Kong'),
  OnlineTime(location: 'London', url: '/Europe/London'),
  OnlineTime(location: 'Moscow', url: '/Europe/Moscow'),
  OnlineTime(location: 'Berlin', url: '/Europe/Berlin'),
  OnlineTime(location: 'Tokyo', url: '/Asia/Tokyo'),
  OnlineTime(location: 'Paris', url: '/Europe/Paris'),
  OnlineTime(location: 'Johannesburg', url: '/Africa/Johannesburg'),
];

class MyApp extends StatefulWidget {
  const MyApp({super.key});

  @override
  State<MyApp> createState() => _MyAppState();
}

class _MyAppState extends State<MyApp> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('World Time App'),
      ),
      body: ListView.builder(
        itemCount: countryList.length,
        itemBuilder: (context, index) {
          return ListTile(
            title: Text(countryList[index].location!),
            onTap: () {
              Navigator.pushNamed(context, '/Display',
                arguments: countryList[index]);
            },
          );
        },
      );
    },
  );
}
```

```

    ),
  );
}
}

class Display extends StatefulWidget {
  const Display({super.key});
  @override
  State<Display> createState() => _MyDisplayState();
}

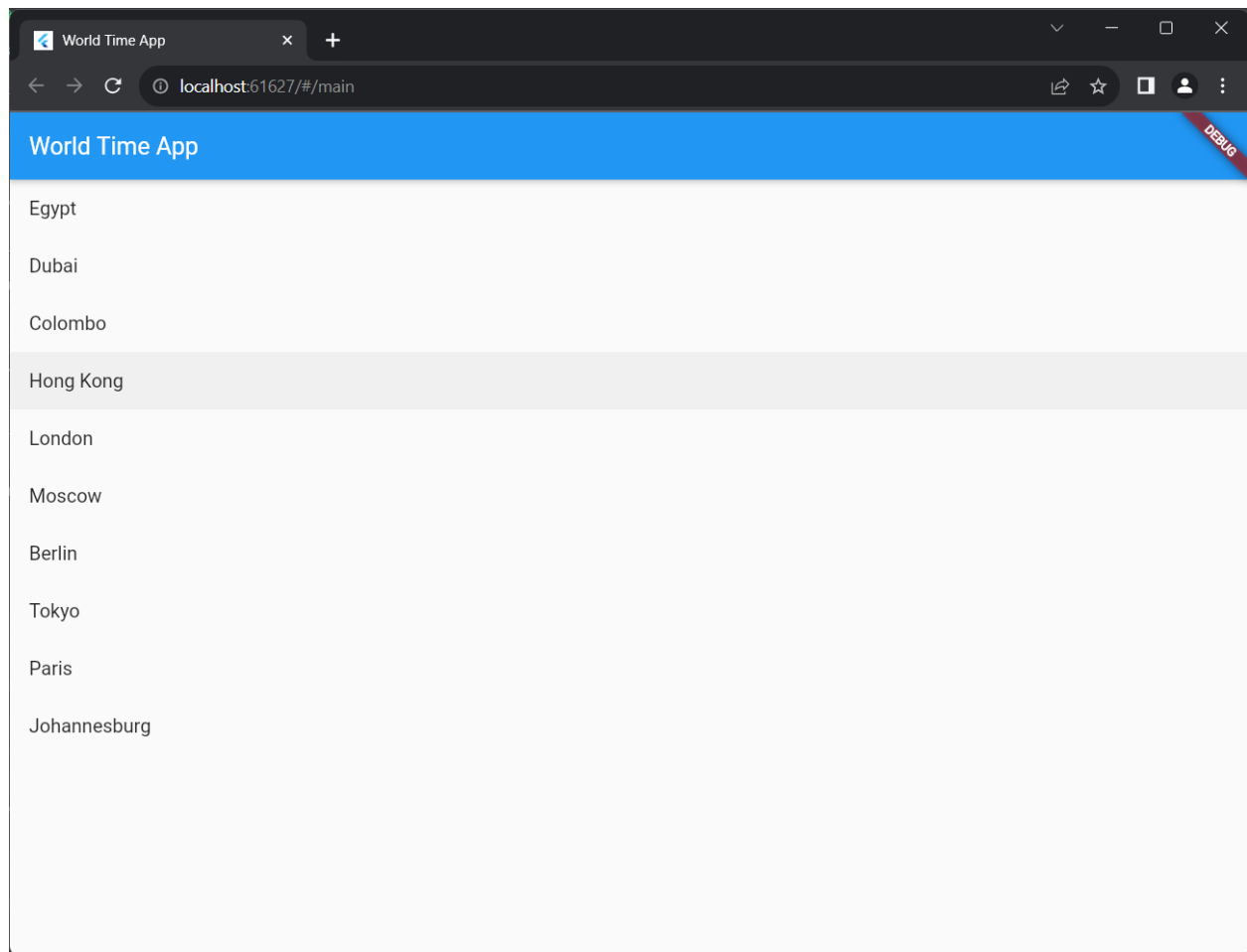
class _MyDisplayState extends State<Display> {
  @override
  Widget build(BuildContext context) {
    final OnlineTime myTime =
      ModalRoute.of(context)!.settings.arguments as OnlineTime;
    return Scaffold(
      appBar: AppBar(
        title: const Text('Time Display'),
      ),
      body: Center(
        child: FutureBuilder<void>(
          future: myTime.gettime(),
          builder: (context, snapshot) {
            return Column(children: [
              Text(
                'Location: ${myTime.location}',
                style: const TextStyle(fontSize: 20),
              ),
              Text(
                'Time:${myTime.time} ',
                style: const TextStyle(fontSize: 30),
              ),
            ]);
          },
          initialData: () ,
        )),
    );
  }
}

```

## part 2 code

```
import 'dart:convert';
import 'package:http/http.dart';
import 'package:intl/intl.dart';

class OnlineTime {
  String? time = "Loading";
  String? location;
  String? url;
  //Constructor
  OnlineTime({this.location, this.url});
  Future<void> gettime() async {
    Response response =
      await get(Uri.parse('http://worldtimeapi.org/api/timezone/$url'));
    Map data = {};
    data = jsonDecode(response.body);
    DateTime currenttime = DateTime.parse(data['datetime']);
    String locoffsetsite = data['utc_offset'].substring(1, 3);
    currenttime = currenttime.add(Duration(hours: int.parse(locoffsetsite)));
    time = DateFormat.jm().format(currenttime);
  }
}
```



World Time App

localhost:61627/#/Display

Dimensions: Samsung Gal... 360 x 740 80%

← Time Display

Location: Colombo

Time:Loading

Filter

All

Doc

JS

Fetch/XHR

CSS

Font

Img

Media

Manifest

WS

Wasm

Other

☐ Invert

☐ Hide data URLs

☐ Hide extension URLs

☐ Blocked response cookies

☐ Blocked requests

☐ 3rd-party requests

5000 ms

10000 ms

15000 ms

20000 ms

25000 ms

30000 ms

Name	Stat...	Type	Initiator	Size	Time	Waterfall
unicode_glyph_se...	304	script	requirej...	231 B	13 ...	
utils.dart.lib.js	304	script	requirej...	231 B	14 ...	
path_exception.d...	304	script	requirej...	231 B	14 ...	
asset_manifest.da...	304	script	requirej...	231 B	5 ms	
equality.dart.lib.js	304	script	requirej...	231 B	4 ms	
glyph_set.dart.lib.js	304	script	requirej...	231 B	3 ms	
comparators.dart...	304	script	requirej...	231 B	5 ms	
client.js	200	script	requirej...	1.1 ...	24 ...	
\$requireDigestsP...	200	xhr	client.js...	22...	5 ms	
*\$dwdsSseHandler	101	we...	client.js...	0 B	Pen...	
FontManifest.json	304	fetch	dom.dar...	231 B	6 ms	
MaterialIcons-Re...	304	font	localhost/	231 B	14 ...	
CupertinoIcons.ttf	304	font	localhost/	231 B	10 ...	
CupertinoIcons.ttf	304	font	localhost/	231 B	3 ms	
Cairo	200	xhr	browser ...	1.1 ...	723...	
Cairo	200	xhr	browser ...	1.1 ...	581...	
Cairo	200	xhr	browser ...	1.1 ...	1.09 s	
Cairo	200	xhr	browser ...	1.1 ...	582...	
Dubai	200	xhr	browser ...	1.1 ...	586...	
Colombo	(pe...	xhr	browser ...	0 B	Pen...	

227 requests | 1.2 MB transferred | 45.0 MB resources | Finish: 16.15 s | DOMContentLoaded: 30

After fetching data

The screenshot shows a web browser window with the title 'World Time App' and the address bar displaying 'localhost:61627/#/Display'. The browser dimensions are set to Samsung Galaxy (360 x 740) at 80% zoom. The page content shows a 'Time Display' header, the location 'Colombo', and the time 'Time:12:23 AM'. A red 'DEBUG' label is visible in the top right corner of the app interface.

The Chrome DevTools Network tab is open, showing a list of requests. The 'Waterfall' view is selected, displaying a timeline of network activity. The requests list includes various JavaScript files, fonts, and XHR requests. The status bar at the bottom indicates 227 requests, 1.2 MB transferred, 45.0 MB resources, a finish time of 25.30 s, and DOMContentLoaded at 30.

Name	Status	Type	Initiator	Size	Time	Waterfall
unicode_glyph_se...	304	script	requirej...	231 B	13 ...	
utils.dart.lib.js	304	script	requirej...	231 B	14 ...	
path_exception.d...	304	script	requirej...	231 B	14 ...	
asset_manifest.da...	304	script	requirej...	231 B	5 ms	
equality.dart.lib.js	304	script	requirej...	231 B	4 ms	
glyph_set.dart.lib.js	304	script	requirej...	231 B	3 ms	
comparators.dart...	304	script	requirej...	231 B	5 ms	
client.js	200	script	requirej...	1.1 ...	24 ...	
\$requireDigestsP...	200	xhr	client.js...	22...	5 ms	
\$dwdsSseHandler	101	we...	client.js...	0 B	Pen...	
FontManifest.json	304	fetch	dom.dar...	231 B	6 ms	
MaterialIcons-Re...	304	font	localhost/	231 B	14 ...	
CupertinoIcons.ttf	304	font	localhost/	231 B	10 ...	
CupertinoIcons.ttf	304	font	localhost/	231 B	3 ms	
Cairo	200	xhr	browser ...	1.1 ...	723...	
Cairo	200	xhr	browser ...	1.1 ...	581...	
Cairo	200	xhr	browser ...	1.1 ...	1.09 s	
Cairo	200	xhr	browser ...	1.1 ...	582...	
Dubai	200	xhr	browser ...	1.1 ...	586...	
Colombo	200	xhr	browser ...	1.1 ...	2.13 s	

227 requests | 1.2 MB transferred | 45.0 MB resources | Finish: 25.30 s | DOMContentLoaded: 30