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SDP Lab 12

GitHub Link :-

https://github.com/khushal-vadher/SDP

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

class WordTime {
  String? location; // REAL LOCATION NAME FOR UI

  String? time; // the time in that location..
  String? flag; // flag images related to location country...do it your
  String? url; // end point of static url...which will change every time
  bool? isDayTime; //for day time background image setting

  WordTime({this.location, this.flag, this.url});

  Future<void> getTime() async {
    try {
      // Make Request for time and receive response
      Response response = await get(
          Uri.parse(
              'http://worldtimeapi.org/api/timezone/$url')); // Asia/Kolkata
      Map timeData = jsonDecode(response.body);
      // Get particular property form timeData...
      String dateTime = timeData['datetime'];
      String offset = timeData['utc_offset']; //not dst_offset
```



```dart
  WordTime({this.location, this.flag, this.url});

  Future<void> getTime() async {
    try {
      // Make Request for time and receive response
      Response response = await get(
          Uri.parse(
              'http://worldtimeapi.org/api/timezone/$url')); // Asia/Kolkata
      Map timeData = jsonDecode(response.body);
      // Get particular property form timeData...
      String dateTime = timeData['datetime'];
      String offset = timeData['utc_offset']; //not dst_offset
      String offsetHours = offset.substring(1, 3);
      String offsetMinutes = offset.substring(4, 6);
      // create DateTime object
      DateTime currenttime = DateTime.parse(dateTime);
      currenttime = currenttime.add(Duration(
          minutes: int.parse(offsetMinutes), hours: int.parse(offsetHours)));
      //set the time property of class...
      isDayTime = (currenttime.hour > 0 && currenttime.hour < 20) ? true : false;
      time = DateFormat.jm().format(currenttime);
      //time = currenttime.toString();
    }
    catch (e) {
```

```
data = ModalRoute.of(context)?.settings.arguments as Map;
print(data);
String bgImage = data['isDayTime'] ? 'day.jpg' : 'night.jpg';
return Scaffold(
  body: SafeArea(
    child: Container(
      decoration: BoxDecoration(
        image: DecorationImage(
          image: AssetImage('assets/images/day.jpg'),
          fit: BoxFit.cover,
        ), // DecorationImage
      ), // BoxDecoration
      child: Padding(
        padding: const EdgeInsets.fromLTRB(0.0,120.0,0.0,0.0),
        child: Column(
          children: [
```

```
Performing hot restart...
Syncing files to device Android SDK built for x86 64...
Restarted application in 4,618ms.
I/flutter ( 7633): {location: kolkata, flag: india.png, time: 10:54 PM, isDayTime: false}
I/flutter ( 7633): {location: kolkata, flag: india.png, time: 10:54 PM, isDayTime: false}
I/flutter ( 7633): {location: kolkata, flag: india.png, time: 10:54 PM, isDayTime: false}
I/flutter ( 7633): {location: kolkata, flag: india.png, time: 10:54 PM, isDayTime: false}
```

kolkata
10:54 PM


```
data = ModalRoute.of(context)?.settings.arguments as Map;
print(data);
String bgImage = data['isDayTime'] ? 'day.jpg' : 'night.jpg';
return Scaffold(
  body: SafeArea(
    child: Container(
      decoration: BoxDecoration(
        image: DecorationImage(
          image: AssetImage('assets/images/night.jpg'),
          fit: BoxFit.cover,
        ), // DecorationImage
      ), // BoxDecoration
      child: Padding(
        padding: const EdgeInsets.fromLTRB(0.0,120.0,0.0,0.0),
        child: Column(
```

```
Installing build\app\outputs\flutter-apk\app.apk...
Debug service listening on ws://127.0.0.1:58998/ficq1qMj9Ew=/ws
Syncing files to device Android SDK built for x86 64...
D/eglCodecCommon( 7633): setVertexArrayObject: set vao to 0 (0) 1 0
D/EGL_emulation( 7633): eglMakeCurrent: 0x74597b63e6c0: ver 2 0 (tinfo 0x74596725a000)
I/flutter ( 7633): {location: kolkata, flag: india.png, time: 10:51 PM, isDayTime: false}
I/flutter ( 7633): {location: kolkata, flag: india.png, time: 10:51 PM, isDayTime: false}
```

kolkata
10:51 PM

@override
State<Home> createState() => _HomeState();
}

class _HomeState extends State<Home> {
  Map<dynamic, dynamic> data = {};
  @override
  Widget build(BuildContext context) {
    data = data.isNotEmpty
        ? data
        : ModalRoute.of(context)?.settings.arguments as Map;
    print(data);
    // set background images
    String bgImage = data['isDayTime'] ? 'day2.jpg' : 'night.jpg';
    Color? appBgColor = data['isDayTime'] ? Colors.blue : Colors.indigo[900];
    return Scaffold(
      backgroundColor: appBgColor,

Performing hot restart...
Syncing files to device Android SDK built for x86 64...
Restarted application in 3,655ms.
I/flutter (7633): {location: kolkata, flag: india.png, time: 11:31 PM, isDayTime: false}
I/flutter (7633): {location: kolkata, flag: india.png, time: 11:31 PM, isDayTime: false}

EDIT LOCATION
kolkata
11:31 PM

String offsetHours = offset.substring(1, 3);
String offsetMinutes = offset.substring(4, 6);
// create DateTime object
DateTime currenttime = DateTime.parse(dateTime);

currenttime = currenttime.add(Duration(
    minutes: int.parse(offsetMinutes), hours: int.parse(offsetHours)));
//set the time property of class...
isDayTime =
    (currenttime.hour > 1 && currenttime.hour < 20) ? true : false;
time = DateFormat.jm().format(currenttime);
// time = currenttime.toString();
} catch (e) {
  print('caught error : $e ');
  time = 'could not get time data';
}
}
}

I/flutter (8452): {time: 2:22 AM, location: Manila, isDayTime: true, flag: philippines.png}
I/flutter (8452): Singapore
I/flutter (8452): {time: 2:22 AM, location: Singapore, isDayTime: true, flag: singapore.png}
I/flutter (8452): Madrid
I/flutter (8452): {time: 8:23 PM, location: Madrid, isDayTime: false, flag: spain.png}

EDIT LOCATION
Madrid
8:23 PM