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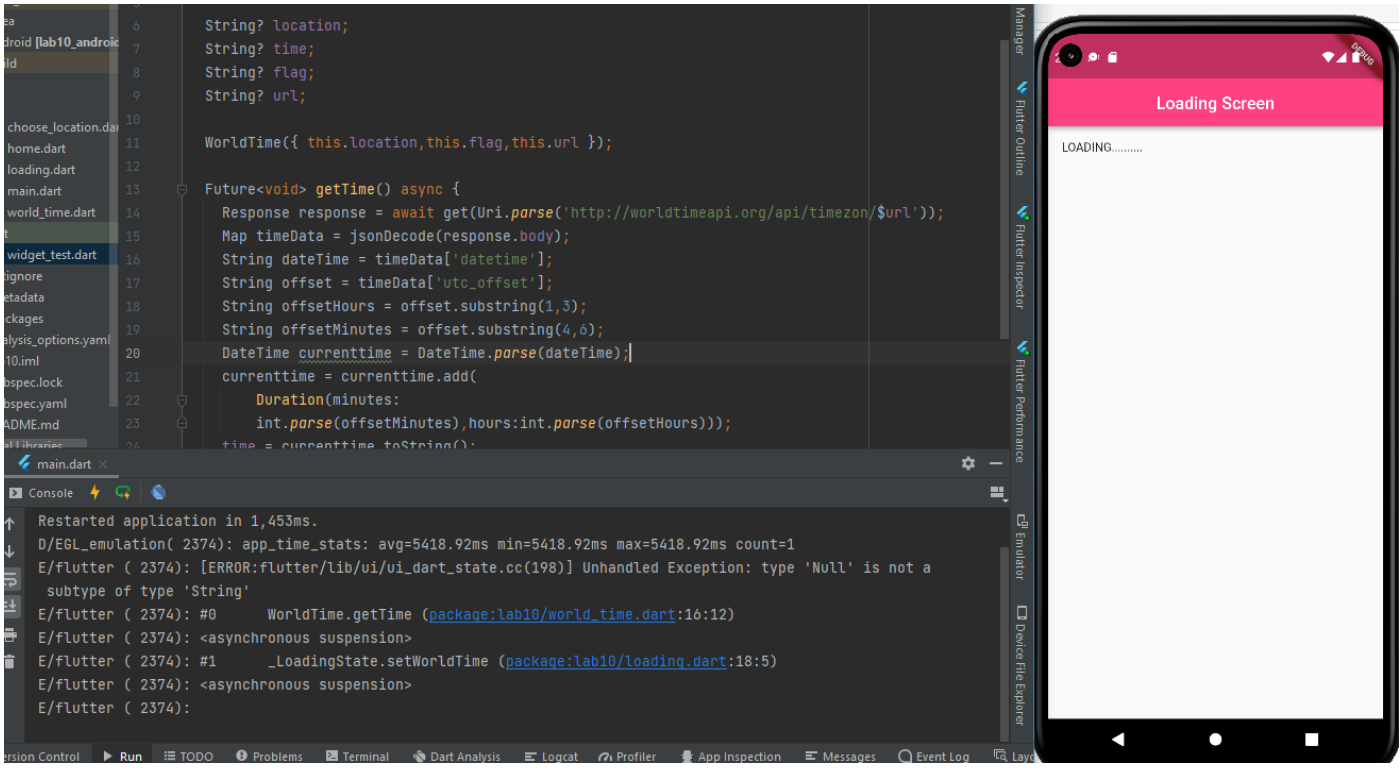
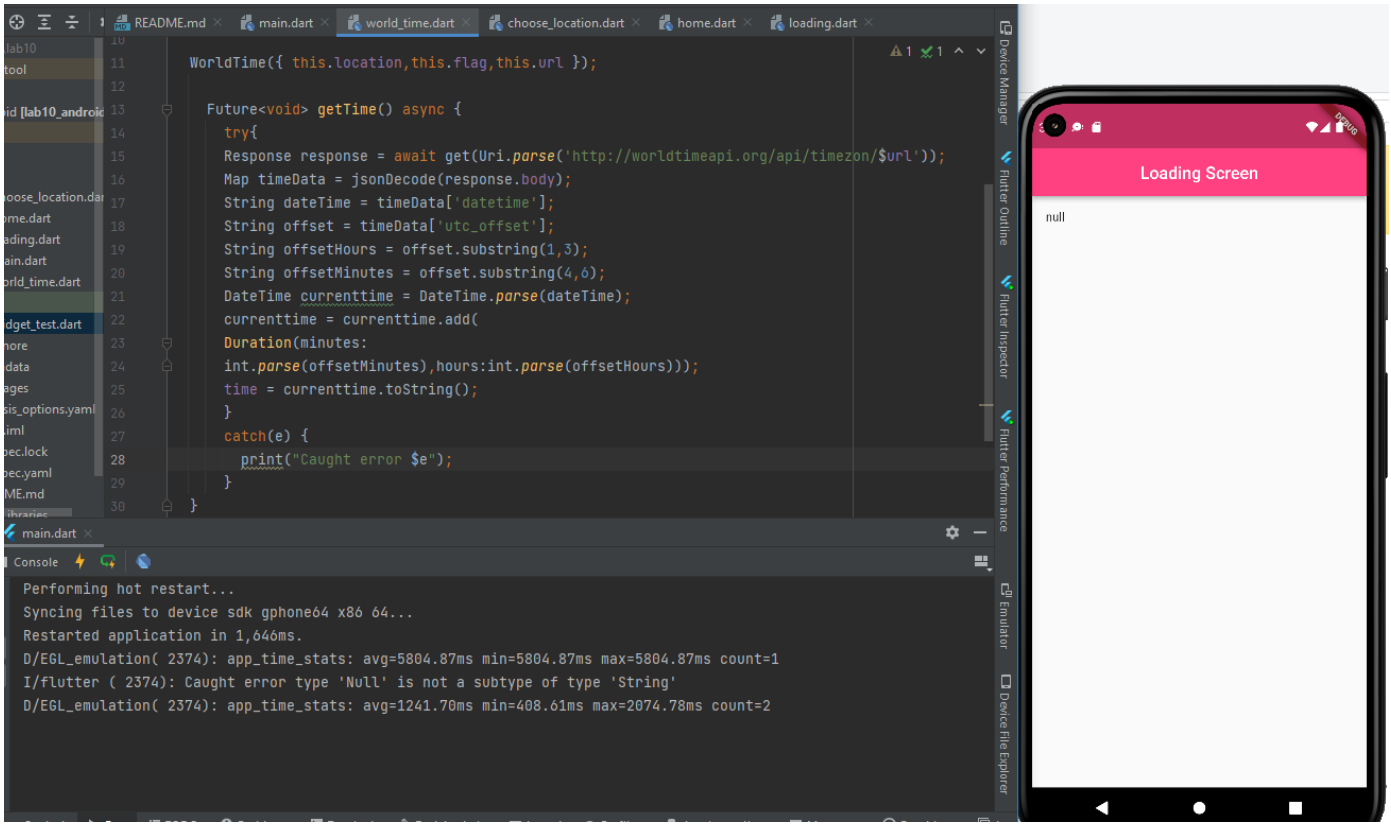
Lab – 11

Code test 1: Handling Error: Try Catch

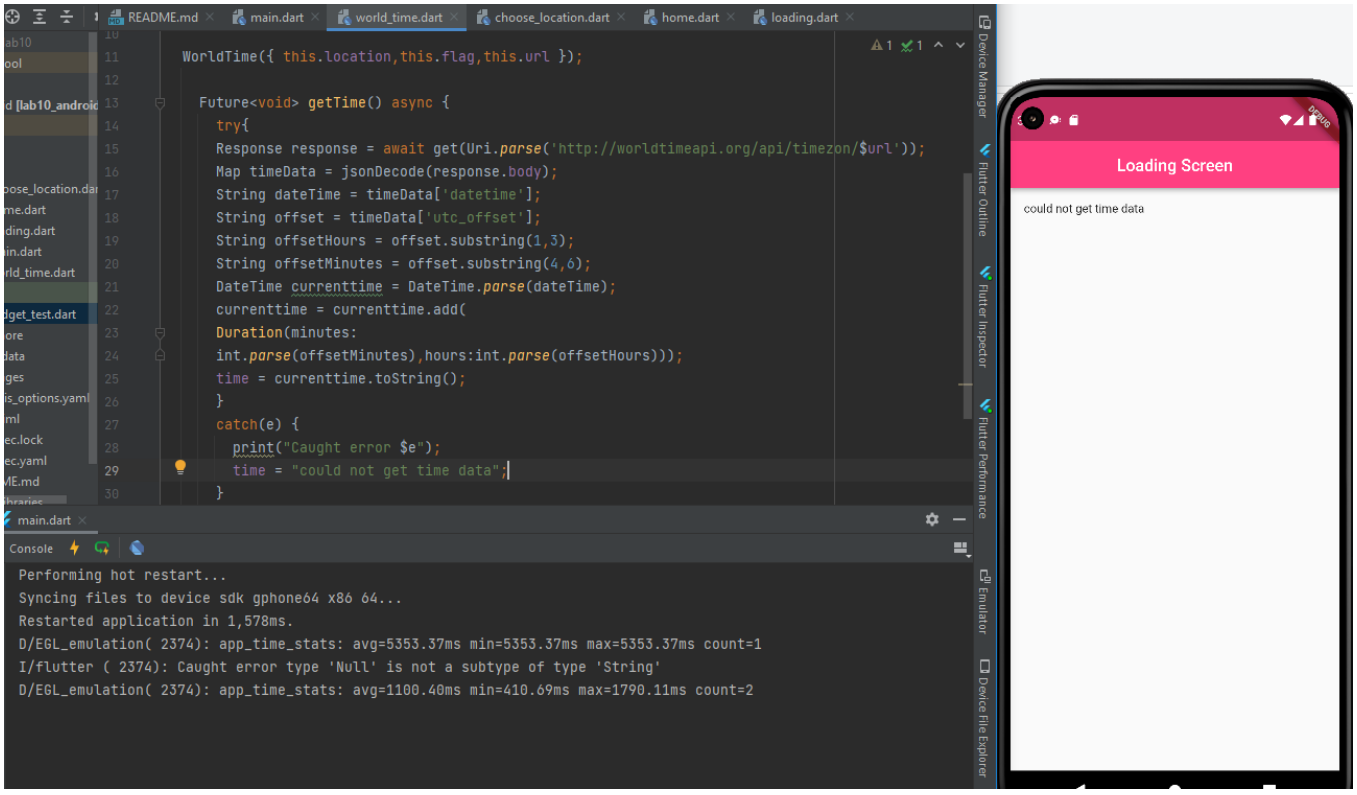
Creating error by making some mistake in URL ex. By deleting character ‘e’ in URL



Solution: use try – catch … put whole code in try catch

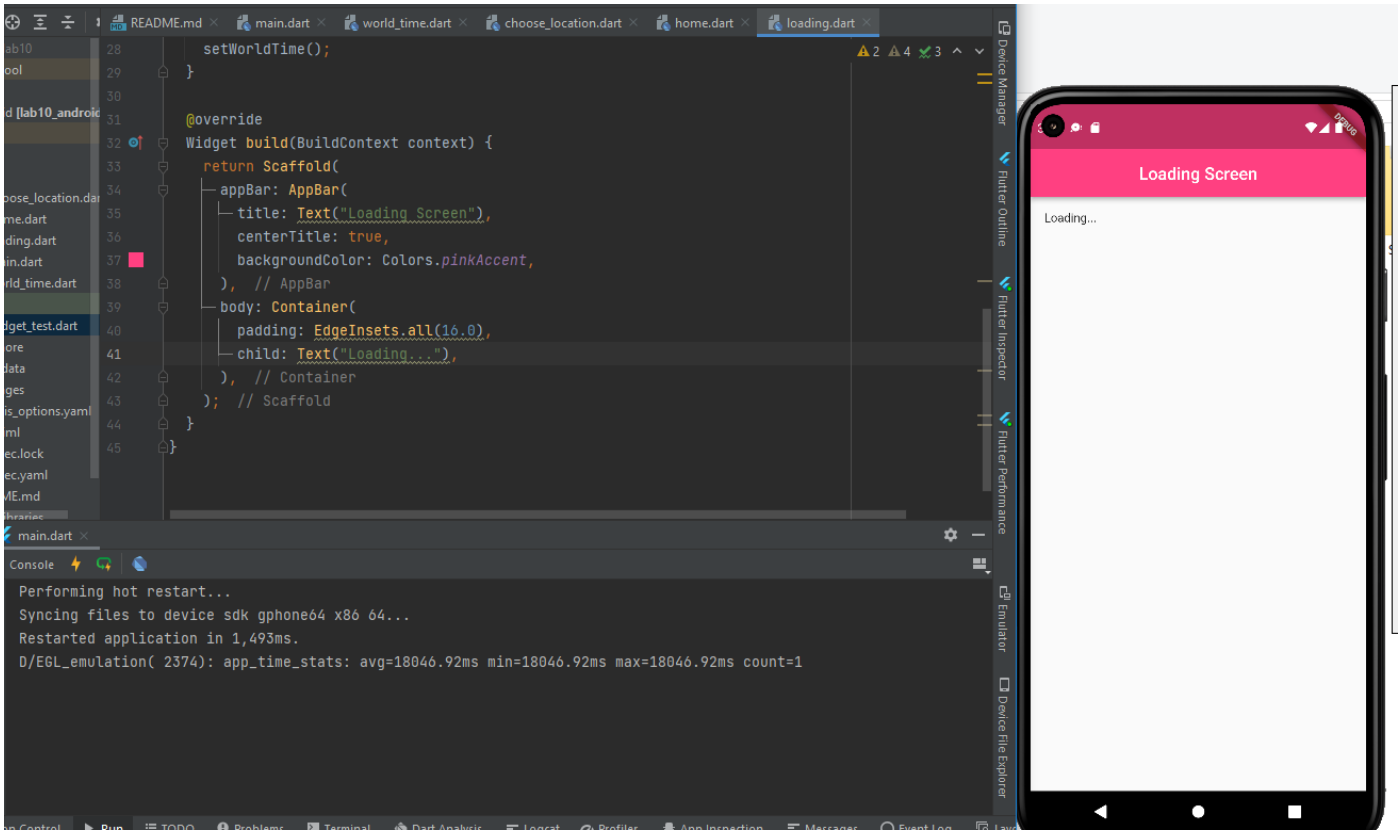


Still error Because we have not saved the ‘time’ variable. Before assigning value to time variable exception occur. So Assign time variable in catch block



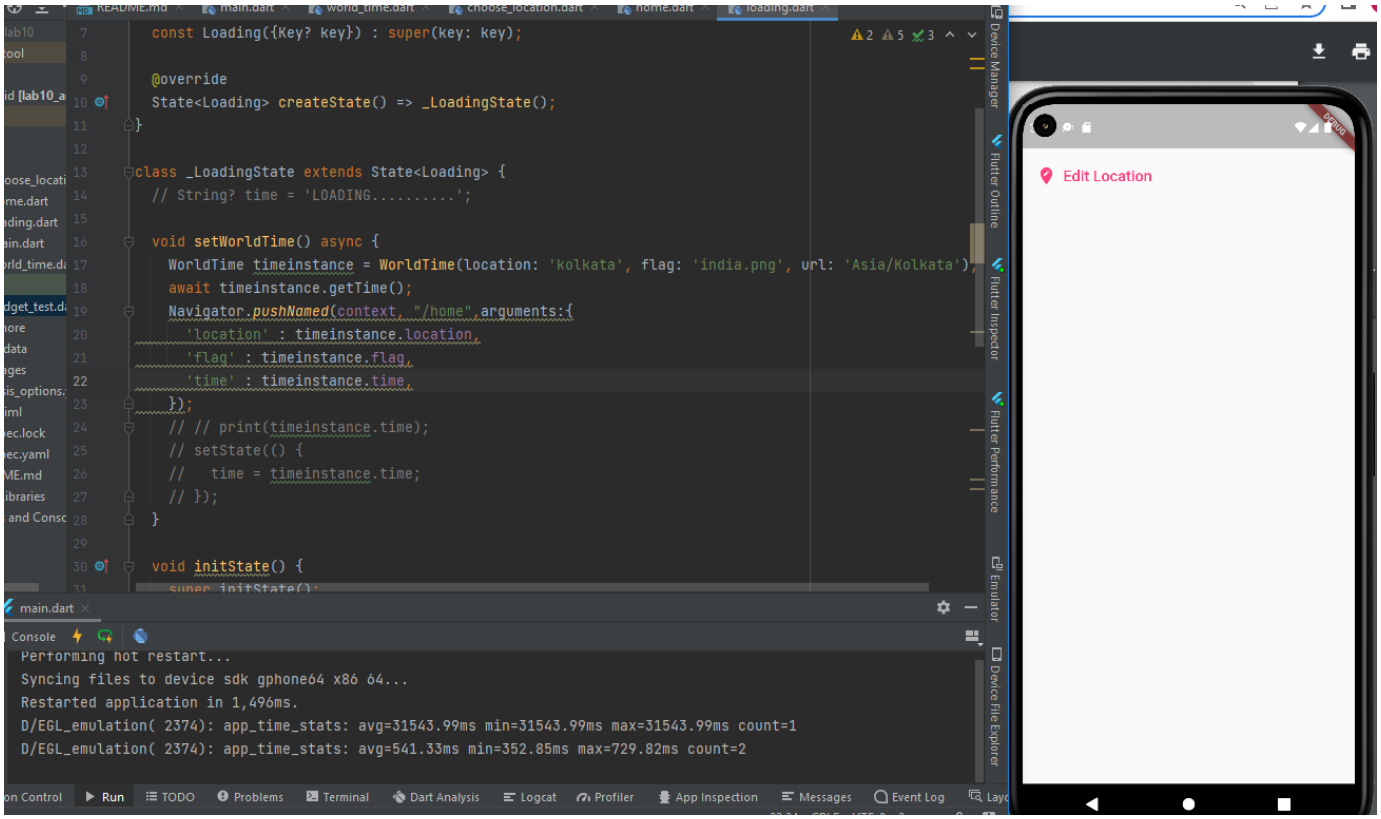
Code test 2 : Data passing between route….

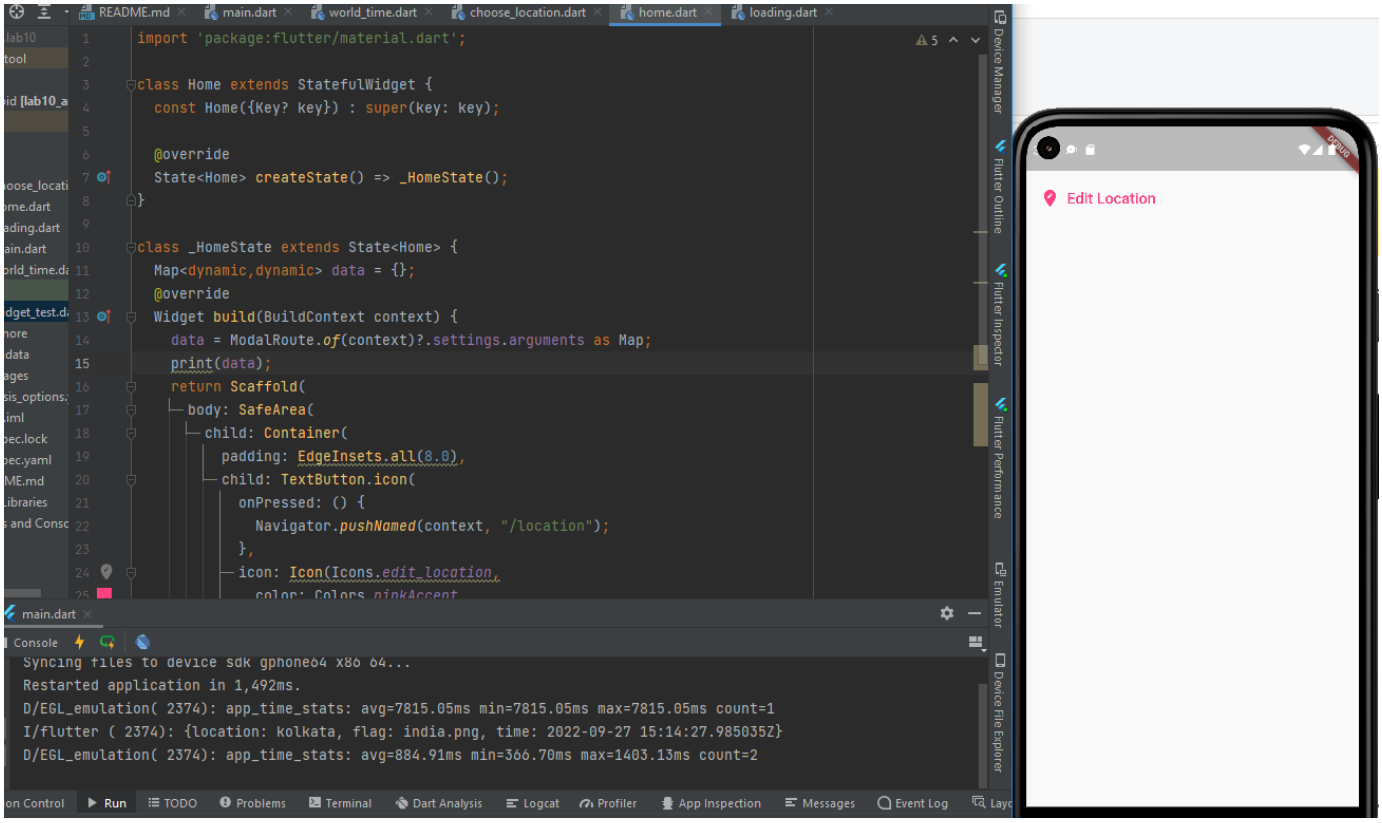
Remove the error(not try-catch…just correct the code..) from pervious code…and execute it . ‘Loading’ screen is 1st widget of the app when we start the app(see ‘route’ in main.dart) But right now we are not redirecting to ‘home’ screen after loading time on loading screen.. So now instead of displaying data on loading screen we redirect data also with page..



Navigator.pushNamed(context,’/home’); pushes home screen on top of login screen… Means login screen is still alive in stack… So instead of pushing new screen on

old screen we replace old screen by new screen by Navigator.pushReplacementNamed(context, '/home'); So above method now replace the old screen in stack instead of overlapping…. But now we also want to redirect the data from loading screen to home screen…how?... By passing third argument a MAP(Key, value --- pairs) as named parameter.

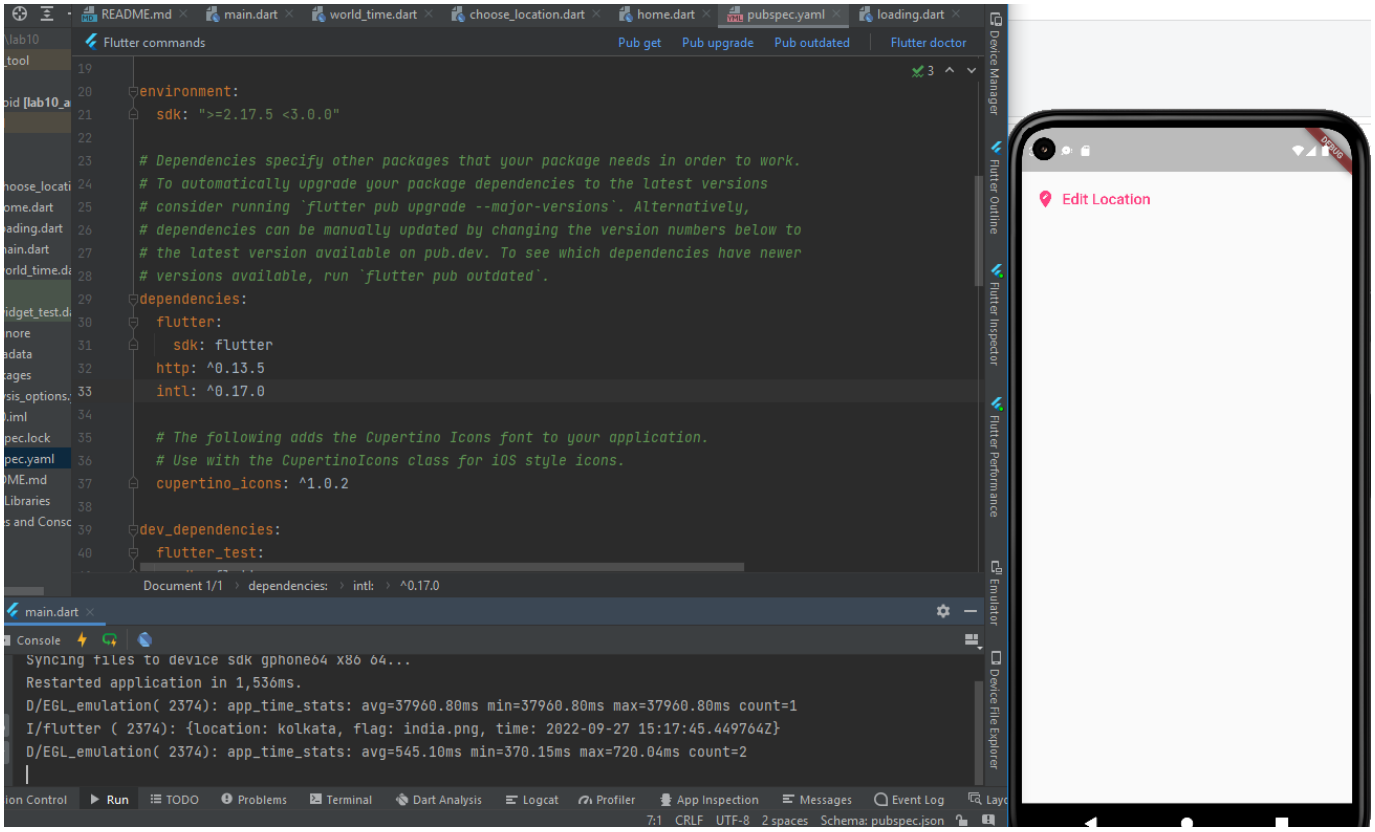


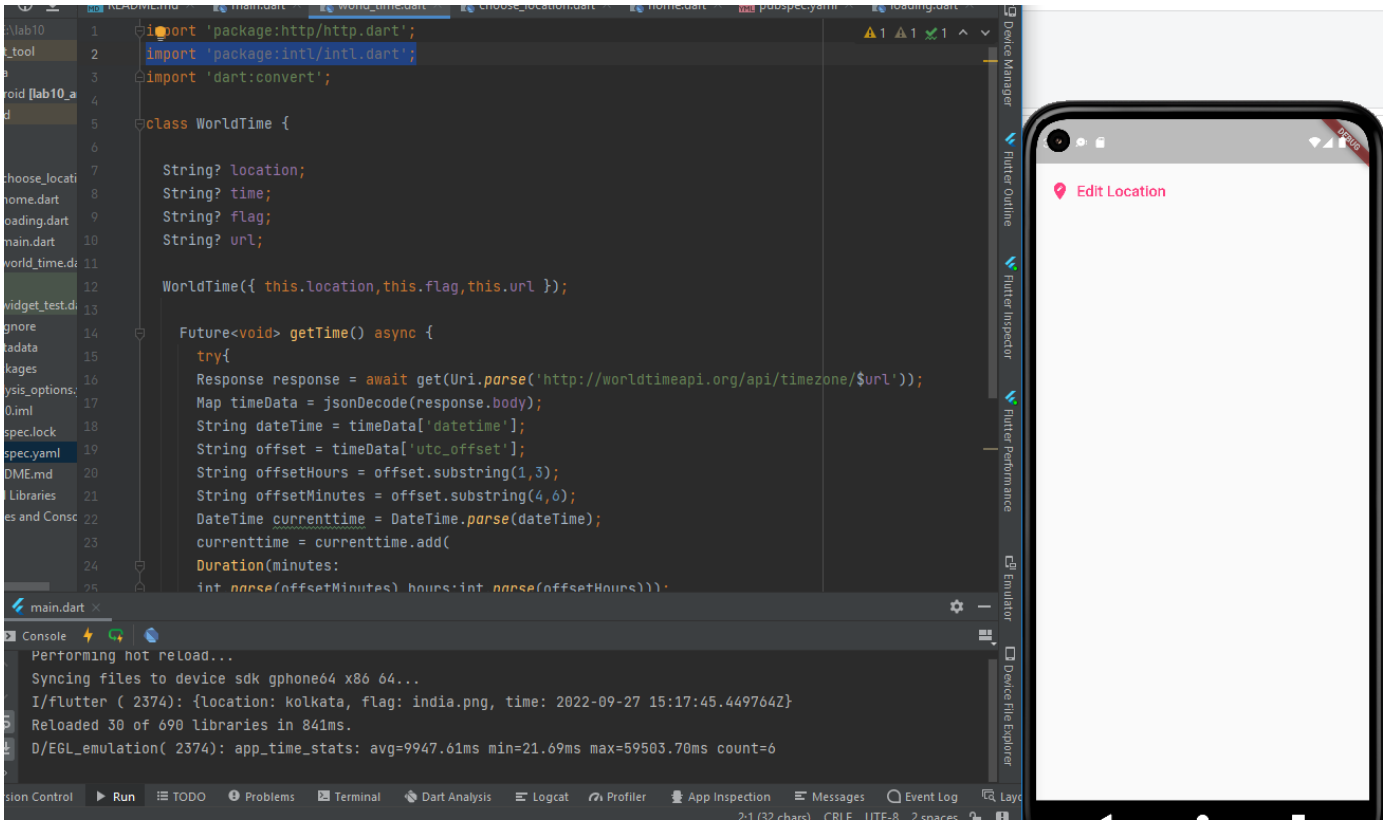


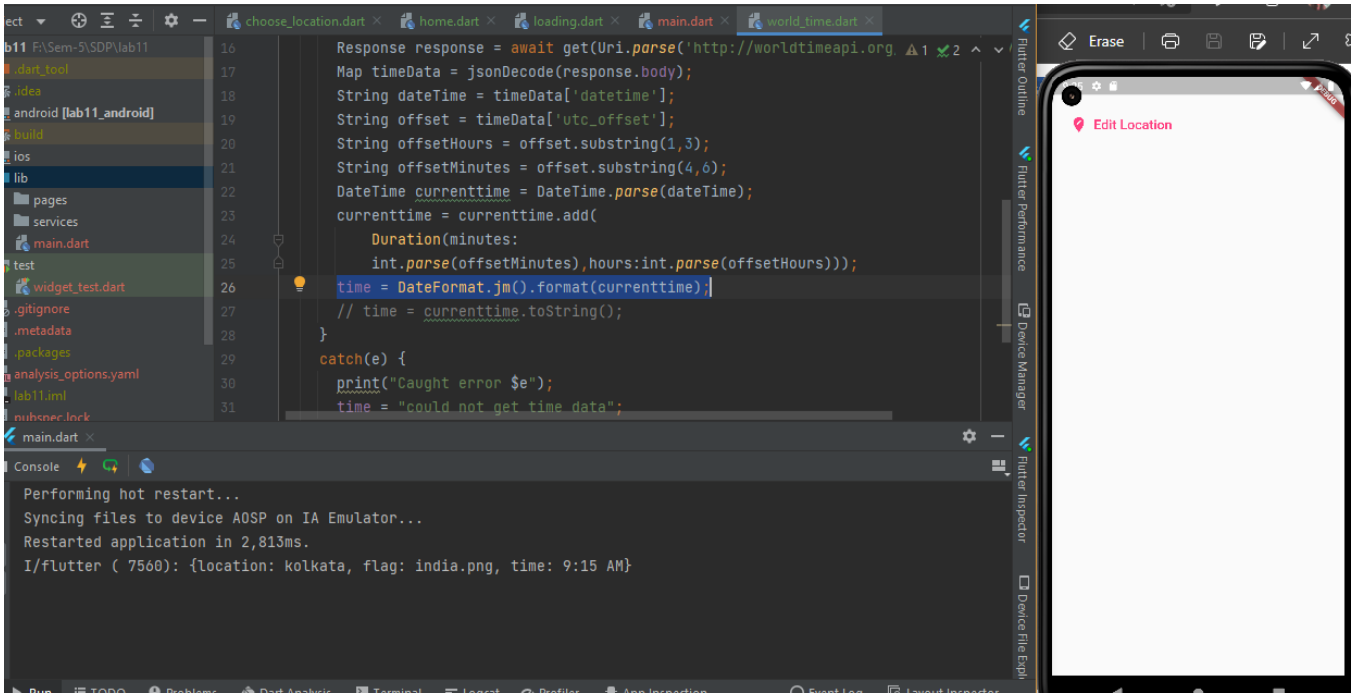
Code test 3: Formatting and showing data—dates

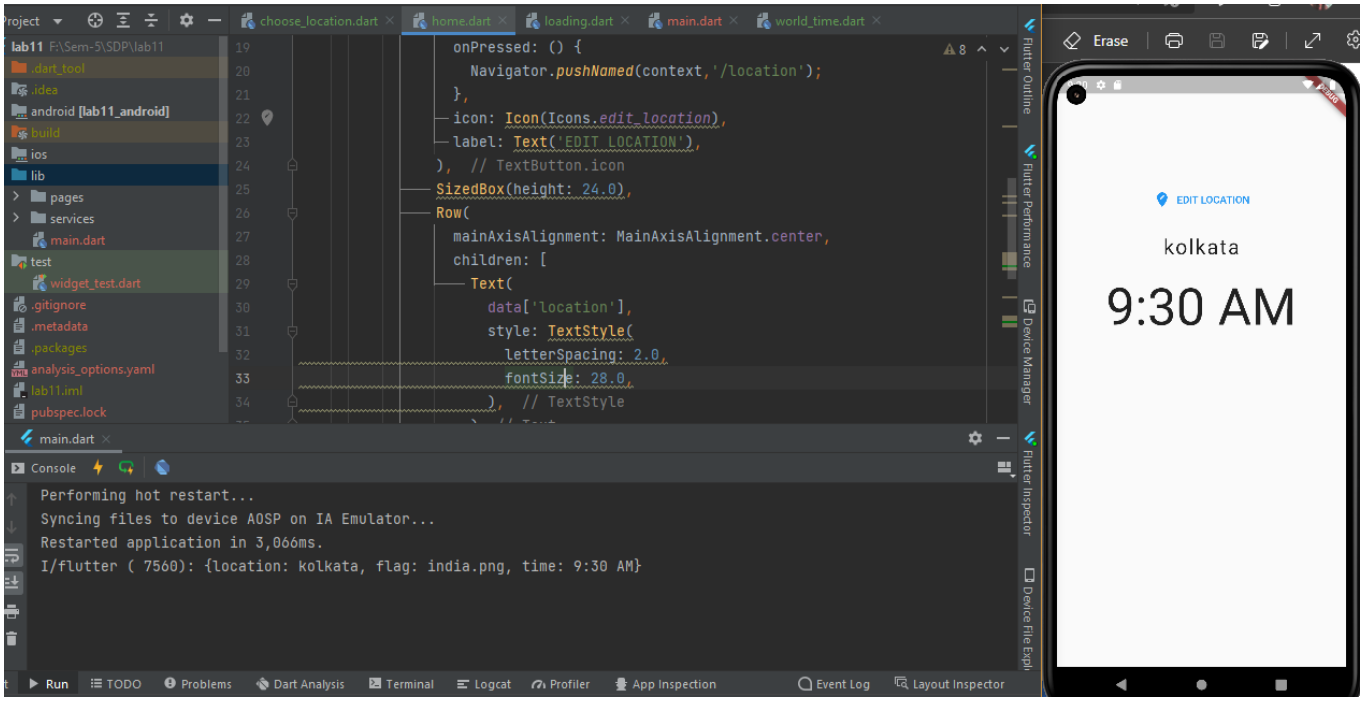
For date-time formatting we use one dependency…

After getting and updating dependency use its related packages in ‘service’ package widget file ‘word_time.dart’..


README.md
main.dart
world_time.dart
choose_location.dart
home.dart
pubspec.yaml
loading.dart
Flutter commands
Pub get
Pub upgrade
Pub outdated
Flutter doctor
environment:
sdk: ">=2.17.5 <3.0.0"
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
http: ^0.13.5
intl: ^0.17.0
The following adds the Cupertino Icons font to your application.
Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.2
dev_dependencies:
flutter_test:
Document 1/1 › dependencies: › intl: › ^0.17.0
main.dart
Console
Syncing files to device sdk gphone64 x86 64...
Restarted application in 1,536ms.
D/EGL_emulation(2374): app_time_stats: avg=37960.80ms min=37960.80ms max=37960.80ms count=1
I/flutter (2374): {location: kolkata, flag: india.png, time: 2022-09-27 15:17:45.449764Z}
D/EGL_emulation(2374): app_time_stats: avg=545.10ms min=370.15ms max=720.04ms count=2
Run
TODO
Problems
Terminal
Dart Analysis
Logcat
Profiler
App Inspection
Messages
Event Log
7:1 CRLF UTF-8 2 spaces Schema: pubspec.json
Edit Location

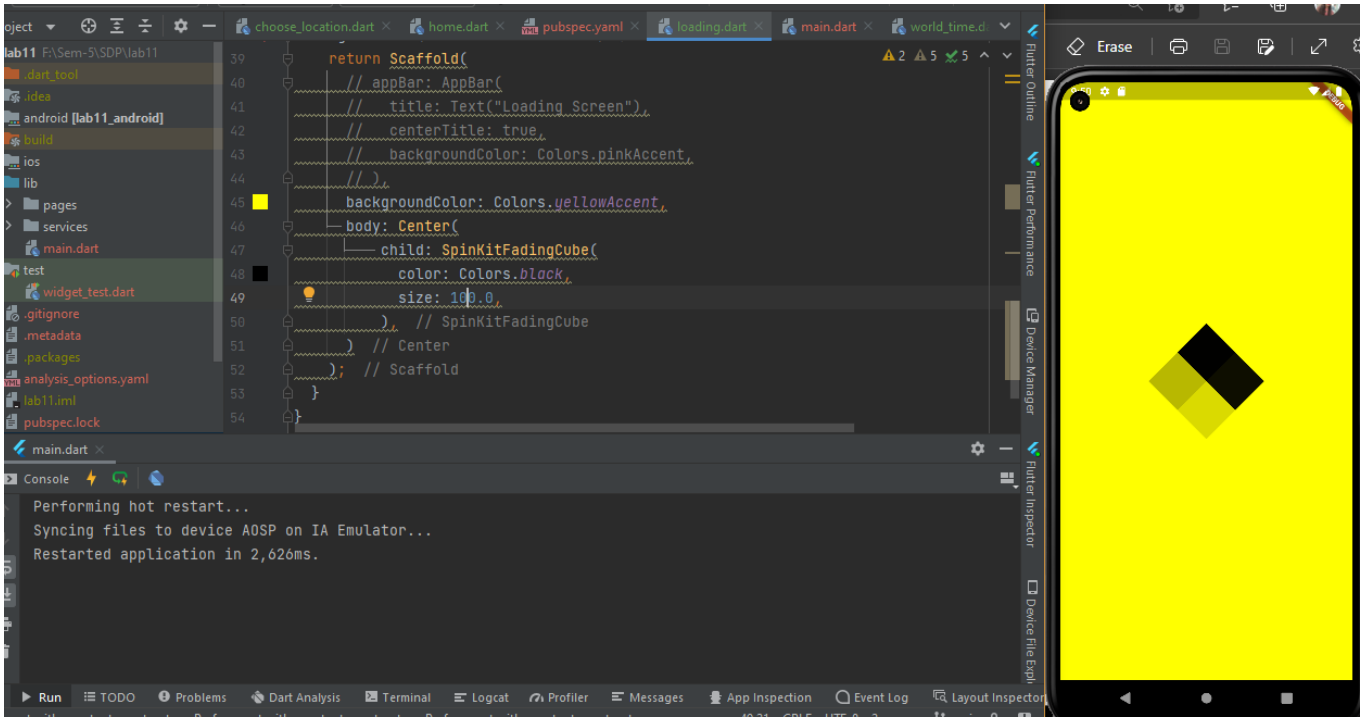

import 'package:http/http.dart';
import 'package:intl/intl.dart';
import 'dart:convert';
class WorldTime {
String? location;
String? time;
String? flag;
String? url;
WorldTime({ this.location,this.flag,this.url });
Future<void> getTime() async {
try{
Response response = await get(Uri.parse('http://worldtimeapi.org/api/timezone/$url'));
Map timeData = jsonDecode(response.body);
String dateTime = timeData['datetime'];
String offset = timeData['utc_offset'];
String offsetHours = offset.substring(1,3);
String offsetMinutes = offset.substring(4,6);
DateTime currenttime = DateTime.parse(dateTime);
currenttime = currenttime.add(
Duration(minutes:
main.dart
Console
Performing hot reload...
Syncing files to device sdk gphone64 x86 64...
I/flutter (2374): {location: kolkata, flag: india.png, time: 2022-09-27 15:17:45.449764Z}
Reloaded 30 of 690 libraries in 841ms.
D/EGL_emulation(2374): app_time_stats: avg=9947.61ms min=21.69ms max=59503.70ms count=6
Run
TODO
Problems
Terminal
Dart Analysis
Logcat
Profiler
App Inspection
Messages
Event Log
Edit Location


choose_location.dart
home.dart
loading.dart
main.dart
world_time.dart
Response response = await get(Uri.parse('http://worldtimeapi.org
Map timeData = jsonDecode(response.body);
String dateTime = timeData['datetime'];
String offset = timeData['utc_offset'];
String offsetHours = offset.substring(1,3);
String offsetMinutes = offset.substring(4,6);
DateTime currenttime = DateTime.parse(dateTime);
currenttime = currenttime.add(
Duration(minutes:
int.parse(offsetMinutes),hours:int.parse(offsetHours)));
time = DateFormat.jm().format(currenttime);
// time = currenttime.toString();
}
catch(e) {
print("Caught error $e");
time = "could not get time data";
main.dart
Console
Performing hot restart...
Syncing files to device AOSP on IA Emulator...
Restarted application in 2,813ms.
I/flutter (7560): {location: kolkata, flag: india.png, time: 9:15 AM}
Erase
Edit Location


choose_location.dart
home.dart
loading.dart
main.dart
world_time.dart
onPressed: () {
Navigator.pushNamed(context,'/location');
},
icon: Icon(Icons.edit_location),
label: Text('EDIT LOCATION'),
), // TextButton.icon
SizedBox(height: 24.0),
Row(
mainAxisAlignment: MainAxisAlignment.center,
children: [
Text(
data['location'],
style: TextStyle(
letterSpacing: 2.0,
fontSize: 28.0,
), // TextStyle
main.dart
Console
Performing hot restart...
Syncing files to device AOSP on IA Emulator...
Restarted application in 3,066ms.
I/flutter (7560): {location: kolkata, flag: india.png, time: 9:30 AM}
Run
TODO
Problems
Dart Analysis
Terminal
Logcat
Profiler
App Inspection
Event Log
Layout Inspector
Erase
EDIT LOCATION
kolkata
9:30 AM

Code test 4: using ‘Spinners’ for loading pages instead of simple messaes…..

Instead of building new ‘spinner widget’ which is quite complex, we will use some readymade ‘spinner widgets’ from https://pub.dev/packages/flutter_spinkit
By scrolling down we can see lots of spinner widgets…
Install its dependency as like we previously installed other dependency…now do it your self…



https://github.com/nishu-mns/SDP/tree/main/lab11

Thank You…