Dharmsinh Desai University, Nadiad Faculty of Technology Department of Computer Engineering



ASSIGNMENT 12

Subject: Smart Device Programming

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We will continue our clock app from previous lab. Now we will add background image in it based on current time. For time 6 AM to 8 PM we can set background image of day and otherwise night. This can be done through Boolean variables.

Add the below Boolean variable is DayTime in time.dart file.

```
Duration(minutes: int.parse(offsetMinutes), hours: int.parse(offsetHours)));
isDayTime = (currenttime.hour>6 && currenttime.hour<20) ? true : false;
time = DateFormat.jm().format(currenttime);
}</pre>
```

Now, in home dart file set background image based on this variable.

And similarly make changes in loading.dart file

```
class _LoadingState extends State<Loading> {
    // String? time = 'LOADING.....';

void setWorldTime() async {
    WordTime timeinstance =
    WordTime(location: 'kolkata',flag: 'india.png',url: 'Asia/Kolkata');
    await timeinstance.getTime();
    Navigator.pushNamed(context, '/home', arguments: {
        'location' : timeinstance.location,
        'flag' : timeinstance.flag,
        'time' : timeinstance.time,
        'isDayTime' : timeinstance.isDayTime,
    });
}
```

Add below code in pubspec.yaml file and add necessary images and flags for that.

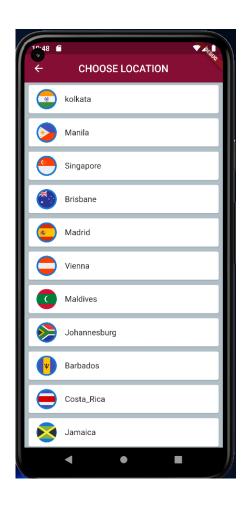
```
# 10 ddd dssets to goor applicate

assets/images/
- assets/flags/
# - images/a_dot_ham.jpeg
```

```
the choose_location.dart × loading.dart × the time.dart ×
                                                           to home.dart ×
                                                                          📶 pubspec.yaml 🗦
List<WordTime> locations = [
  WordTime(location: 'kolkata',flag: 'india.png',url: 'Asia/Kolkata'),
  WordTime(location: 'Manila', flag: 'philippines.png', url: 'Asia/Manila'),
  WordTime(location: 'Singapore',flag: 'singapore.png',url: 'Asia/Singapore')
  WordTime(location: 'Maldives',flag: 'maldives.png',url: 'Indian/Maldives'),
  WordTime(location: 'Johannesburg',flag: 'south-africa.png',url: 'Africa/Johannesburg'),
  WordTime(location: 'Barbados',flag: 'barbados.png',url: 'America/Barbados'),
  WordTime(location: 'Jamaica',flag: 'jamaica.png',url: 'America/Jamaica'),
  WordTime(location: 'Phoenix', flag: 'usa.png', url: 'America/Phoenix'),
  WordTime(location: 'Broken_Hill',flag: 'australia.png',url: 'Australia/Broken_Hill'),
  WordTime(location: 'Moscow', flag: 'russia.png', url: 'Europe/Moscow'),
void updateTime(index) async {
  WordTime instance = locations[index];
  await instance.getTime();
  Navigator.pop(context,{
    'location' : instance.location,
    'flag' : instance.flag,
    'isDayTime' : instance.isDayTime
```

Now when we click on edit location the below page would be displayed.





Make some changes in home.dart file again that will change data of current location based on our choice and would display time according to that.

```
gidget build(BuildContext context) {
  data = data.isNotEmpty ? data : ModalRoute.of(context)?.settings.arguments as Map;
  print(data);
```

If we choose Manila from the list of locations result would be as shown in the image.

At last we will check our code for the day time. For that currently we are changing criteria for displaying day image.

```
DateTime currenttime = DateTime.parse(dateTime);
currenttime = currenttime.add(
    Duration(minutes: int.parse(offsetMinutes), hours: int.parse(offsetHours)));
isDayTime = (currenttime.hour>6 && currenttime.hour<24) ? true : false;
time = DateFormat.jm().format(currenttime);
}</pre>
```

Result:



