**Main.dart**

import 'ui/background/background.dart';

import 'ui/forms/login\_form.dart';

import 'package:flutter/material.dart';

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// 2021-CS-204

void main() => runApp(const MyApp());

class MyApp extends StatelessWidget {

const MyApp({Key? key}) : super(key: key);

@override

Widget build(BuildContext context) {

return MaterialApp(

title: 'Material App',

home: Scaffold(

body: Stack(

children: [

Background(),

const LoginForm(),

],

),

),

);

}

}

**Background.dart**

import 'dart:ui';

import 'package:flutter/material.dart';

class Background extends StatefulWidget {

@override

\_MyPainterState createState() => \_MyPainterState();

}

class \_MyPainterState extends State<Background> {

@override

void initState() {

super.initState();

}

@override

Widget build(BuildContext context) {

final size = MediaQuery.of(context).size;

return Center(

child: Container(

color: Colors.white,

child: CustomPaint(

size: Size(size.width, size.height),

painter: Curved(),

),

),

);

}

}

class Curved extends CustomPainter {

@override

void paint(Canvas canvas, Size size) {

var rect = Offset.zero & size;

// Path rectPathThree = Path();

Paint paint = Paint();

paint.shader = const LinearGradient(

begin: Alignment.topLeft,

end: Alignment.bottomRight,

stops: [.01, .25],

colors: [

Color(0xfff8a55f),

Color(0xfff1665f),

],

).createShader(rect);

Paint paint2 = Paint();

paint2.shader = const LinearGradient(

begin: Alignment.centerLeft,

end: Alignment.centerRight,

stops: [.05, 1],

colors: [

Color(0xff0ce8f9),

Color(0xff45b7fe),

],

).createShader(rect);

var path = Path();

var path2 = Path();

path.lineTo(0, 0);

path.lineTo(size.width, 0);

path.quadraticBezierTo(

size.width \* 0.9,

size.height \* 0.1,

size.width \* 0.6,

size.height \* 0.1,

);

path.quadraticBezierTo(

size.width \* 0.2,

size.height \* 0.1,

size.width \* 0.1,

size.height \* 0.3,

);

path.quadraticBezierTo(

size.width \* 0.06,

size.height \* 0.4,

size.width \* 0,

size.height \* 0.4,

);

path.close();

//

path2.moveTo(size.width, size.height);

path2.lineTo(size.width, size.height \* 0.7);

path2.quadraticBezierTo(

size.width,

size.height \* .65,

size.width,

size.height \* 0.7,

);

path2.quadraticBezierTo(

size.width \* .9,

size.height \* .95,

size.width \* 0.2,

size.height \* 0.97,

);

path2.quadraticBezierTo(

size.width \* .1,

size.height \* .98,

size.width \* 0.1,

size.height,

);

//

canvas.drawPath(path, paint);

canvas.drawPath(path2, paint2);

}

@override

bool shouldRepaint(CustomPainter oldDelegate) {

return true;

}

}

// FOR PAINTING THE CIRCLE

class CirclePainter extends CustomPainter {

final double radius;

CirclePainter(this.radius);

@override

void paint(Canvas canvas, Size size) {

var paint = Paint()

..color = Colors.purpleAccent

..strokeWidth = 3

..style = PaintingStyle.stroke

..strokeCap = StrokeCap.round;

var path = Path();

path.addOval(Rect.fromCircle(

center: Offset(size.width / 2, size.height / 2),

radius: radius,

));

canvas.drawPath(path, paint);

}

@override

bool shouldRepaint(CustomPainter oldDelegate) {

return true;

}

}

**Loginform.dart**

import 'package:flutter/material.dart';

import 'package:mid\_exam\_2021cs204/ui/friends/friends\_list\_page.dart';

class LoginForm extends StatefulWidget {

const LoginForm({Key? key}) : super(key: key);

@override

State<LoginForm> createState() => \_LoginFormState();

}

class \_LoginFormState extends State<LoginForm> {

@override

Widget build(BuildContext context) {

return Column(

mainAxisAlignment: MainAxisAlignment.center,

children: [

Container(

margin: const EdgeInsets.only(bottom: 60),

child: const Text(

"Login",

style: TextStyle(

fontSize: 35,

fontWeight: FontWeight.bold,

),

),

),

SizedBox(

height: 150,

child: Stack(

children: [

Container(

height: 150,

margin: const EdgeInsets.only(

right: 70,

),

decoration: BoxDecoration(

color: Colors.white,

borderRadius: const BorderRadius.only(

topRight: Radius.circular(100),

bottomRight: Radius.circular(100),

),

boxShadow: [

BoxShadow(

color: Colors.grey.withOpacity(0.5),

spreadRadius: 0,

blurRadius: 10,

offset: const Offset(0, 4),

),

],

),

child: Column(

mainAxisAlignment: MainAxisAlignment.spaceEvenly,

children: [

Container(

margin: const EdgeInsets.only(left: 16, right: 32),

child: const TextField(

decoration: InputDecoration(

hintStyle: TextStyle(fontSize: 20),

border: InputBorder.none,

icon: Icon(Icons.account\_circle\_rounded),

hintText: "Username",

),

),

),

Container(

margin: const EdgeInsets.only(left: 16, right: 32),

child: const TextField(

obscureText: true,

decoration: InputDecoration(

hintStyle: TextStyle(fontSize: 22),

border: InputBorder.none,

icon: Icon(Icons.account\_circle\_rounded),

hintText: "\*\*\*\*\*\*\*\*",

),

),

),

],

),

),

Align(

alignment: Alignment.centerRight,

child: Container(

margin: const EdgeInsets.only(right: 15),

height: 80,

width: 80,

decoration: BoxDecoration(

boxShadow: [

BoxShadow(

color: Colors.green[200]!.withOpacity(0.5),

spreadRadius: 5,

blurRadius: 7,

offset: const Offset(0, 3),

),

],

shape: BoxShape.circle,

gradient: const LinearGradient(

begin: Alignment.centerLeft,

end: Alignment.centerRight,

colors: [

Color(0xff1bccba),

Color(0xff22e2ab),

],

),

),

child: InkWell(

onTap: () {

Navigator.push(

context,

MaterialPageRoute(

builder: (context) => FriendsListPage(),

),

);

},

child: Icon(

Icons.arrow\_forward\_outlined,

color: Colors.white,

size: 32,

),

),

),

),

],

),

),

Row(

mainAxisAlignment: MainAxisAlignment.end,

children: [

Container(

margin: const EdgeInsets.only(right: 16, top: 16),

child: Text(

"Forgot ?",

style: TextStyle(

fontSize: 20,

fontWeight: FontWeight.w600,

color: Colors.grey[400],

),

),

),

],

),

Row(

mainAxisAlignment: MainAxisAlignment.start,

children: [

Container(

margin: const EdgeInsets.only(left: 16, top: 24),

child: const Text(

"Register",

style: TextStyle(

fontSize: 20,

fontWeight: FontWeight.w600,

color: Color(0xffe98f60),

),

),

),

],

)

],

);

}

}

Friends.dart

import 'dart:convert';

import 'package:meta/meta.dart';

class Friend {

Friend({

required this.avatar,

required this.name,

required this.email,

required this.location,

});

final String avatar;

final String name;

final String email;

final String location;

static List<Friend> allFromResponse(String response) {

var decodedJson = json.decode(response).cast<String, dynamic>();

return decodedJson['results']

.cast<Map<String, dynamic>>()

.map((obj) => Friend.fromMap(obj))

.toList()

.cast<Friend>();

}

static Friend fromMap(Map map) {

var name = map['name'];

return new Friend(

avatar: map['picture']['large'],

name: '${\_capitalize(name['first'])} ${\_capitalize(name['last'])}',

email: map['email'],

location: \_capitalize(map['location']['state']),

);

}

static String \_capitalize(String input) {

return input.substring(0, 1).toUpperCase() + input.substring(1);

}

}

**Friends\_list\_page.dart**

import 'dart:async';

import 'package:flutter/material.dart';

import 'package:http/http.dart' as http;

import 'package:mid\_exam\_2021cs204/ui/frienddetails/friend\_details\_page.dart';

import 'package:mid\_exam\_2021cs204/ui/friends/friend.dart';

class FriendsListPage extends StatefulWidget {

@override

\_FriendsListPageState createState() => new \_FriendsListPageState();

}

class \_FriendsListPageState extends State<FriendsListPage> {

List<Friend> \_friends = [];

@override

void initState() {

super.initState();

\_loadFriends();

}

Future<void> \_loadFriends() async {

Uri url = Uri.parse('https://randomuser.me/api/?results=25');

http.Response response = await http.get(url);

setState(() {

\_friends = Friend.allFromResponse(response.body);

});

}

Widget \_buildFriendListTile(BuildContext context, int index) {

var friend = \_friends[index];

return new ListTile(

onTap: () => \_navigateToFriendDetails(friend, index),

leading: new Hero(

tag: index,

child: new CircleAvatar(

backgroundImage: new NetworkImage(friend.avatar),

),

),

title: new Text(friend.name),

subtitle: new Text(friend.email),

);

}

void \_navigateToFriendDetails(Friend friend, Object avatarTag) {

Navigator.of(context).push(

new MaterialPageRoute(

builder: (c) {

return new FriendDetailsPage(friend, avatarTag: avatarTag);

},

),

);

}

@override

Widget build(BuildContext context) {

Widget content;

if (\_friends.isEmpty) {

content = new Center(

child: new CircularProgressIndicator(),

);

} else {

content = new ListView.builder(

itemCount: \_friends.length,

itemBuilder: \_buildFriendListTile,

);

}

return new Scaffold(

appBar: new AppBar(title: new Text('Friends')),

body: content,

);

}

}

Friend\_DetailBodyPart.dart

import 'package:flutter/material.dart';

import 'package:mid\_exam\_2021cs204/ui/friends/friend.dart';

class FriendDetailBody extends StatelessWidget {

FriendDetailBody(this.friend);

final Friend friend;

Widget \_buildLocationInfo(TextTheme textTheme) {

return new Row(

children: <Widget>[

new Icon(

Icons.place,

color: Colors.white,

size: 16.0,

),

new Padding(

padding: const EdgeInsets.only(left: 8.0),

child: new Text(

friend.location,

style: TextStyle(

color: Colors.white,

),

),

),

],

);

}

Widget \_createCircleBadge(IconData iconData, Color color) {

return new Padding(

padding: const EdgeInsets.only(left: 8.0),

child: new CircleAvatar(

backgroundColor: color,

child: new Icon(

iconData,

color: Colors.white,

size: 16.0,

),

radius: 16.0,

),

);

}

@override

Widget build(BuildContext context) {

var theme = Theme.of(context);

var textTheme = theme.textTheme;

return new Column(

crossAxisAlignment: CrossAxisAlignment.start,

children: <Widget>[

new Text(

friend.name,

style: TextStyle(

color: Colors.white,

),

),

new Padding(

padding: const EdgeInsets.only(top: 4.0),

child: \_buildLocationInfo(textTheme),

),

new Padding(

padding: const EdgeInsets.only(top: 16.0),

child: new Text(

'Lorem Ipsum is simply dummy text of the printing and typesetting '

'industry. Lorem Ipsum has been the industry\'s standard dummy '

'text ever since the 1500s.',

style: TextStyle(

color: Colors.white70,

fontSize: 16.0,

),

),

),

new Padding(

padding: const EdgeInsets.only(top: 16.0),

child: new Row(

children: <Widget>[

\_createCircleBadge(

Icons.beach\_access,Colors.blue),

\_createCircleBadge(Icons.cloud, const Color.fromARGB(31, 128, 77, 77)),

\_createCircleBadge(Icons.shop, Colors.white12),

],

),

),

],

);

}

}

**Friend\_detail\_page.dart**

import 'package:flutter/material.dart';

import 'package:mid\_exam\_2021cs204/ui/frienddetails/footer/friend\_detail\_footer.dart';

import 'package:mid\_exam\_2021cs204/ui/frienddetails/friend\_detail\_body.dart';

import 'package:mid\_exam\_2021cs204/ui/frienddetails/header/friend\_detail\_header.dart';

import 'package:mid\_exam\_2021cs204/ui/friends/friend.dart';

import 'package:meta/meta.dart';

class FriendDetailsPage extends StatefulWidget {

FriendDetailsPage(

this.friend, {

required this.avatarTag,

});

final Friend friend;

final Object avatarTag;

@override

\_FriendDetailsPageState createState() => new \_FriendDetailsPageState();

}

class \_FriendDetailsPageState extends State<FriendDetailsPage> {

@override

Widget build(BuildContext context) {

var linearGradient = const BoxDecoration(

gradient: const LinearGradient(

begin: FractionalOffset.centerRight,

end: FractionalOffset.bottomLeft,

colors: <Color>[

const Color(0xFF413070),

const Color(0xFF2B264A),

],

),

);

return new Scaffold(

body: new SingleChildScrollView(

child: new Container(

decoration: linearGradient,

child: new Column(

crossAxisAlignment: CrossAxisAlignment.start,

children: <Widget>[

new FriendDetailHeader(

widget.friend,

avatarTag: widget.avatarTag,

),

new Padding(

padding: const EdgeInsets.all(24.0),

child: new FriendDetailBody(widget.friend),

),

new FriendShowcase(widget.friend),

],

),

),

),

);

}

}