Task Guide A04

Introduction and setup project

1. Objective

Student learn how to make Instagram's home screen story list

2. Requirement

Hardware:

- 4 GB RAM minimum, 8 GB RAM recommended
- 15 GB of available disk space minimum (2 GB for Flutter SDK, 8 GB for Android Studio, 4 GB for AVD, and 1 GB for project's size)
- 1280 x 800 minimum screen resolution
- Intel processor with support for Intel VT-x, Intel EM64T (Intel 64), and Execute Disable (XD) Bit functionality

Software:

- Microsoft Windows 7/8/10/11 (64-bit)
- JDK 8
- Android Studio IDE
- Git
- 3. Resource

Starter project code: https://github.com/chrisdionisius/clone-instagram-login.git

4. Task Description

In this task, student will be implementing a clone of Instagram's home page post list using Flutter and various widgets such as StatefulWidget, Scaffold, Column, Container, and more. This exercise will help student understand how to structure a Flutter application, utilize different widgets, and build a user interface resembling Instagram's home page post list.

Specification

- Clone project from https://github.com/chrisdionisius/clone-instagram-login/tree/Refactoring (make sure clone it from code-starter branch) or using the manual setup if you encounter error during cloning project, refer to Guide A.01
- 2) Run flutter pub get in the terminal or if you are using Microsoft Visual Studio Code you could click on **Get Package** button.
- 3) Using this specification make a list of some widgets below:
 - 1. Open post_item.dart file under directory lib\app\widgets and make sure if PostItem widget is extended from StatelessWidget

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

class PostItem extends StatelessWidget {
   const PostItem({
      super.key,
   });

@override
   Widget build(BuildContext context) {
      throw UnimplementedError();
   }
}
```

2. Add this import to post_item.dart file

```
import 'package:flutter/material.dart';
import 'package:flutter_svg/flutter_svg.dart';
```

3. Add this parameter to PostItem class

```
final String profileImg;
final String name;
final String postImg;
final String caption;
 final bool isLoved;
final String likedBy;
final String viewCount;
 final String dayAgo;
 final String userPhoto;
 const PostItem({
  super.key,
  required this.profileImg,
  required this.name,
  required this.postImg,
  required this.caption,
  required this.isLoved,
  required this.likedBy,
  required this.viewCount,
  required this.dayAgo,
  required this.userPhoto,
```

});

```
class PostItem extends StatelessWidget {
 final String profileImg;
 final String name;
 final String postImg;
 final String caption;
 final bool isLoved;
 final String likedBy;
 final String viewCount;
 final String dayAgo;
 final String userPhoto;
   required this.profileImg,
   required this.name,
   required this.postImg,
   required this.caption,
   required this.isLoved,
   required this.likedBy,
   required this.viewCount,
   required this.dayAgo,
   required this.userPhoto,
 @override
 Widget build(BuildContext context) {
```

4. Add Padding widget as a return following this specifications

No	Widget	Property	Value
1	Padding	key	Key('post_item_padding')
		padding	EdgeInsets.only(bottom: 10)
		child	Column(
			key: const Key('post_item_column')
Colum	n(key: const K	ey('post_item_column')	properties :
2	Column	key	Key('post_item_column')
		crossAxisAlignment	CrossAxisAlignment.start
		children	

```
return Padding(
    key: const Key('post_item_padding'),
    padding: const EdgeInsets.only(bottom: 10),
    child: Column(
        key: const Key('post_item_column'),
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [],
    ),
    );
}
```

ADDING POST'S USER INFO

5. Check on Column widget with key post_item_column, add Container widget as children following this specification:

No	Widget	Property	Value
3	Container	key	Key('post_item_user_info_container')
		padding	EdgeInsets.symmetric(vertical: 10, horizontal: 15)
		margin	EdgeInsets.only(bottom: 12)
		child	Row(
			key: const Key('post_item_user_info_row')
Row	(key: const	Key('post_item_user_	info_row') properties :
4	Row	key	Key('post_item_user_info_row')
		mainAxisAlignment	MainAxisAlignment.spaceBetween
		children	Container(
			key: Key('post_item_user_profile_img_container'),
			Expanded(
			key: Key('post_item_user_name_expanded'),)
			Icon(key: Key('post_item_user_more_icon'))
Con	tainer(key: I	<pre>Key('post_item_user_</pre>	profile_img_container') properties :
5	Container	key	Key('post_item_user_profile_img_container')
		width	40
		height	40
		margin	EdgeInsets.only(right: 15)
		decoration	BoxDecoration(
			shape: BoxShape.circle,
			image: DecorationImage(
			image: NetworkImage(profileImg),
			fit: BoxFit.cover,),)
Expa	anded(key: I	<pre>Key('post_item_user_</pre>	name_expanded')) properties :
6	Expanded	key	Key('post_item_user_name_expanded')
		child	Text(key: const Key('post_item_user_name_text')
		Key('post_item_user_	name_text') properties :
7	Text	key	Key('post_item_user_name_text')
		value	name
		style	TextStyle(
			color: white,
			fontSize: 15,
			fontWeight: FontWeight.w500)
	(key: Key('p	ost_item_user_more_	
8	Icon	key	Key('post_item_user_more_icon')
		value	Icons.more_horiz
		color	white

```
Column(
  key: const Key('post_item_column'),
  crossAxisAlignment: CrossAxisAlignment.start,
  children: <Widget>[
  Container(
    key: const Key('post_item_user_info_container'),
```

```
padding: const EdgeInsets.symmetric(vertical: 10, horizontal: 15),
margin: const EdgeInsets.only(bottom: 12),
child: Row(
  key: const Key('post_item_user_info_row'),
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: <Widget>[
    Container(
      key: const Key('post_item_user_profile_img_container'),
      width: 40,
      height: 40,
      margin: const EdgeInsets.only(right: 15),
      decoration: BoxDecoration(
        shape: BoxShape.circle,
        image: DecorationImage(
          image: NetworkImage(profileImg),
          fit: BoxFit.cover,
        ),
      ),
    ),
    Expanded(
      key: const Key('post_item_user_name_expanded'),
      child: Text(
        key: const Key('post_item_user_name_text'),
        name,
        style: const TextStyle(
          color: white,
          fontSize: 15,
          fontWeight: FontWeight.w500,
        ),
      ),
    ),
    const Icon(
      key: Key('post_item_user_more_icon'),
      Icons.more_horiz,
      color: white,
    )
  ],
),
```

ADDING POST'S IMAGE

6. Still on Column widget with key post_item_column, add another Container widget as children following this specification:

No	Widget	Property	Value
9	Container	key	Key('post_item_image_container')
		height	400

	margin	EdgeInsets.only(bottom: 10)
	decoration	BoxDecoration(
		image: DecorationImage(
		image: NetworkImage(postImg),
		fit: BoxFit.cover,
),
)

ADDING POST'S ITEM ACTION BUTTONS

7. Still on Column widget with key post_item_column, add another Container widget as children following this specifications:

No	Widget	Property	Value
10	Container	key	Key('post_item_actions_container')
		padding	EdgeInsets.fromLTRB(15, 3, 15, 0)
		margin	EdgeInsets.only(bottom: 12)
		child	Row(key: const Key('post_item_actions_row')
Row	(key: const K	<pre>Key('post_item_action</pre>	s_row') properties :
11	Row	key	Key('post_item_actions_row')
		mainAxisAlignment	MainAxisAlignment.spaceBetween
		children	Row(
			key: const Key('post_item_actions_left_row')),
			SvgPicture.asset(
			"assets/images/save_icon.svg",
			key: const Key('post_item_actions_save_icon'),
			width: 27,)
Row	(key: const K	<pre>Key('post_item_action</pre>	s_left_row')) properties :
12	Row	key	Key('post_item_actions_left_row')
		children	SvgPicture.asset(
			key: const Key('post_item_actions_love_icon'),

```
width: 27
isLoved? "assets/images/loved_icon.svg"
: "assets/images/love_icon.svg"),
SizedBox(width:20),
SvgPicture.asset(
    "assets/images/comment_icon.svg",
    key: const
Key('post_item_actions_comment_icon'),
    width: 27),
SizedBox(width: 20),
SvgPicture.asset(
    "assets/images/message_icon.svg",
    key: const
Key('post_item_actions_message_icon'),
    width: 27),
```

```
Column(
 key: const Key('post_item_column'),
 crossAxisAlignment: CrossAxisAlignment.start,
  children: <Widget>[
   . . .
   Container(
     key: const Key('post item actions container'),
     padding: const EdgeInsets.fromLTRB(15, 3, 15, 0),
     margin: const EdgeInsets.only(bottom: 12),
     child: Row(
        key: const Key('post_item_actions_row'),
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children: <Widget>[
          Row(
            key: const Key('post_item_actions_left_row'),
            children: <Widget>[
              SvgPicture.asset(
                key: const Key('post_item_actions_love_icon'),
                isLoved
                    ? "assets/images/loved icon.svg"
                    : "assets/images/love_icon.svg",
                width: 27,
              ),
              const SizedBox(width: 20),
              SvgPicture.asset(
                "assets/images/comment_icon.svg",
                key: const Key('post_item_actions_comment_icon'),
                width: 27,
              ),
              const SizedBox(width: 20),
              SvgPicture.asset(
                "assets/images/message_icon.svg",
                key: const Key('post_item_actions_message_icon'),
```

ADDING POST'S ITEM LIKES INFORMATION

8. Still on Column widget with key post_item_column, add another Container widget as children following this specifications:

No	Widget	Property	Value
19	Container	key	Key('post_item_likes_container')
		padding	EdgeInsets.symmetric(horizontal: 15)
		margin	EdgeInsets.only(bottom: 12)
		child	RichText(key: const Key('post_item_likes_rich_text')
20	RichText	key	Key('post_item_likes_rich_text')
		text	TextSpan(
			children: [
			TextSpan(
			text: "Liked by \$likedBy and Other",
			style: const TextStyle(
			fontSize: 15,
			fontWeight: FontWeight.w500,
),
),
],
)

ADDING POST'S CAPTION

9. Still on Column widget with key post_item_column, add another Container widget as children following this specifications:

No	Widget	Property	Value
21	Container	key	Key('post_item_caption_container')
		padding	EdgeInsets.symmetric(horizontal: 15)
		margin	EdgeInsets.only(bottom: 12)
		child	RichText(
			key: const Key('post_item_caption_rich_text')
RichTe	ext(key: const Key	('post_item_cap	otion_rich_text') properties :
22	RichText	key	Key('post_item_caption_rich_text')
		text	TextSpan(
			children: [
			TextSpan(
			text: "\$name ",
			style: const TextStyle(
			fontSize: 15,
			fontWeight: FontWeight.w700)),
			TextSpan(
			text: caption,
			style: const TextStyle(
			fontSize: 15,
			fontWeight: FontWeight.w500),
),
],

```
Container(
   key: const Key('post_item_caption_container'),
   padding: const EdgeInsets.symmetric(horizontal: 15),
   margin: const EdgeInsets.only(bottom: 12),
   child: RichText(
      key: const Key('post_item_caption_rich_text'),
      text: TextSpan(
        children: [
          TextSpan(
            text: "$name ",
            style: const TextStyle(
                fontSize: 15, fontWeight: FontWeight.w700),
          ),
          TextSpan(
            text: caption,
            style: const TextStyle(
                fontSize: 15, fontWeight: FontWeight.w500),
          ),
       ],
     ),
   ),
 ),
```

ADDING POST'S COMMENTS COUNT

10. Still on Column widget with key post_item_column, add another Container widget as children following this specifications :

No	Widget	Property	Value
23	Container	key	<pre>Key('post_item_view_comments_container')</pre>
		padding	EdgeInsets.symmetric(horizontal: 15)
		margin	EdgeInsets.only(bottom: 12)
		child	Text(key: const Key('post_item_view_comments_text')
24	Text	key	Key('post_item_view_comments_text')
		value	"View \$viewCount comments"
		style	TextStyle(
			color: white.withOpacity(0.5),
			fontSize: 15,
			fontWeight: FontWeight.w500))

```
padding: const EdgeInsets.symmetric(horizontal: 15),
    margin: const EdgeInsets.only(bottom: 12),
    child: Text(
        key: const Key('post_item_view_comments_text'),
        "View $viewCount comments",
        style: TextStyle(
            color: white.withOpacity(0.5),
            fontSize: 15,
            fontWeight: FontWeight.w500),
        ),
     ),
]),
```

ADDING POST'S ADD-COMMENTS

11. Still on Column widget with key post_item_column, add another Container widget as children following this specifications :

No	Widget	Property	Value
24	Container	key	Key('post_item_add_comment_container')
		padding	EdgeInsets.symmetric(horizontal: 15)
		margin	EdgeInsets.only(bottom: 12)
		child	Row(
			<pre>key: const Key('post_item_add_comment_row')</pre>
Row	(key: const I	Key('post_item_add_d	comment_row') properties :
25	Row	key	Key('post_item_add_comment_row')
		mainAxisAlignment	MainAxisAlignment.spaceBetween
		children	Row(
			key: const
			Key('post_item_add_comment_left_row'),)
			Row(
			key: const
			Key('post_item_add_comment_right_row'),)
Row	(key: const I	Key('post_item_add_c	comment_left_row') properties :
26	Row	key	Key('post_item_add_comment_left_row')
		children	Container(
			key:
			Key('post_item_add_comment_avatar_container'))
			Text (key:Key('post_item_add_comment_text'))
Cont			comment_avatar_container')) properties :
27	Container	key	Key('post_item_add_comment_avatar_container')
		width	30
		height	30
		margin	EdgeInsets.only(right: 15)
		decoration	BoxDecoration(
			shape: BoxShape.circle,
			image: DecorationImage(
			image: NetworkImage(userPhoto),
			fit: BoxFit.cover))
Text	(key:Key('po	ost_item_add_comme	ent_text')) properties :

28	Text	key	Key('post_item_add_comment_text')
		value	"Add a comment"
		style	TextStyle(
			color: white.withOpacity(0.5),
			fontSize: 15,
			fontWeight: FontWeight.w500)
Row	(key: const l	Key('post_item_add_d	comment_right_row')) properties :
29	Row	key	Key('post_item_add_comment_right_row')
		children	Text(key: Key('post_item_add_laugh_emoji_text'),
			SizedBox(width: 10),
			Text(key: Key('post_item_add_love_emoji_text'))
			SizedBox(width: 10),
			Icon(key: Key('post_item_add_circle_icon'))
Text	(key: Key('po	ost_item_add_laugh_	emoji_text')) properties :
30	Text	key	Key('post_item_add_laugh_emoji_text')
		value	" 😂 "
		style	TextStyle(fontSize: 20)
Text	(key: Key('po	ost_item_add_love_e	moji_text')) properties :
32	Text	key	Key('post_item_add_love_emoji_text')
		value	" ** "
		style	TextStyle(fontSize: 20)
Icon	(key: Key('po	ost_item_add_circle_i	icon')) properties :
34	Icon	key	Key('post_item_add_circle_icon')
		value	Icons.add_circle
		color	white.withOpacity(0.5)
		size	18

```
Column(
        key: const Key('post_item_column'),
        crossAxisAlignment: CrossAxisAlignment.start,
        children: <Widget>[
         Container(
            key: const Key('post_item_add_comment_container'),
            padding: const EdgeInsets.symmetric(horizontal: 15),
            margin: const EdgeInsets.only(bottom: 12),
            child: Row(
              key: const Key('post_item_add_comment_row'),
              mainAxisAlignment: MainAxisAlignment.spaceBetween,
              children: <Widget>[
                Row(
                  key: const Key('post_item_add_comment_left_row'),
                  children: <Widget>[
                    Container(
                      key: const
Key('post_item_add_comment_avatar_container'),
                      width: 30,
                      height: 30,
```

```
margin: const EdgeInsets.only(right: 15),
           decoration: BoxDecoration(
             shape: BoxShape.circle,
             image: DecorationImage(
               image: NetworkImage(userPhoto),
               fit: BoxFit.cover,
             ),
           ),
         ),
        Text(
           key: const Key('post_item_add_comment_text'),
           "Add a comment...",
           style: TextStyle(
             color: white.withOpacity(0.5),
             fontSize: 15,
             fontWeight: FontWeight.w500,
           ),
        ),
      ],
    ),
    Row(
      key: const Key('post_item_add_comment_right_row'),
      children: <Widget>[
         const Text(
          key: Key('post_item_add_laugh_emoji_text'),
          style: TextStyle(fontSize: 20),
         ),
         const SizedBox(width: 10),
         const Text(
          key: Key('post_item_add_love_emoji_text'),
           "*",
          style: TextStyle(fontSize: 20),
         ),
         const SizedBox(width: 10),
        Icon(
          key: const Key('post_item_add_circle_icon'),
          Icons.add circle,
          color: white.withOpacity(0.5),
           size: 18,
      ],
  ],
),
```

ADDING POST'S DAY AGO

12. Still on Column widget with key post_item_column, add Padding widget as children following this specifications:

No	Widget	Property	Value	
35	Padding	key	Key('post_item_day_ago_padding')	
		padding	EdgeInsets.symmetric(horizontal: 15)	
		child	Text(key: const Key('post_item_day_ago_text')	
Text(ke	ey: const Key	('post_iten	n_day_ago_text') properties :	
36	Text	key	<pre>Key('post_item_day_ago_text')</pre>	
		value	dayAgo	
		style	TextStyle(
			color: white.withOpacity(0.5),	
			fontSize: 15,	
			fontWeight: FontWeight.w500)	

```
Column(
 key: const Key('post_item_column'),
 crossAxisAlignment: CrossAxisAlignment.start,
 children: <Widget>[
   Padding(
     key: const Key('post_item_day_ago_padding'),
     padding: const EdgeInsets.symmetric(horizontal: 15),
     child: Text(
       key: const Key('post_item_day_ago_text'),
       dayAgo,
       style: TextStyle(
         color: white.withOpacity(0.5),
         fontSize: 15,
         fontWeight: FontWeight.w500,
       ),
     ),
```

13. Move to home_page.dart file and add this import so that PostItem widget will be accessible from this page

import 'package:example_widget_testing/app/widgets/post_item.dart';

14. Move to Column widget with key home_page_column, add another Column widget as it's children following this specifications:

No	Widget	Property	Value
15	Column	Key	Key('posts_column')
		children	List.generate(
			widget.posts.length,
			(index) {
			return PostItem(
			key: Key('post_item_\$index'),

```
postImg: widget.posts[index]['postImg'],
    profileImg: widget.posts[index]['profileImg'],
    name: widget.posts[index]['name'],
    caption: widget.posts[index]['caption'],
    isLoved: widget.posts[index]['isLoved'],
    viewCount:
    widget.posts[index]['commentCount'],
    likedBy: widget.posts[index]['likedBy'],
    dayAgo: widget.posts[index]['timeAgo'],
    userPhoto: profile.profilePic!,
    );
    },
    )
```

```
Column(
  key: const Key('home_page_column'),
  children: <Widget>[
    Column(
      key: const Key('posts_column'),
      children: List.generate(
        widget.posts.length,
        (index) {
          return PostItem(
            key: Key('post_item_$index'),
            postImg: widget.posts[index]['postImg'],
            profileImg: widget.posts[index]['profileImg'],
            name: widget.posts[index]['name'],
            caption: widget.posts[index]['caption'],
            isLoved: widget.posts[index]['isLoved'],
            viewCount: widget.posts[index]['commentCount'],
            likedBy: widget.posts[index]['likedBy'],
            dayAgo: widget.posts[index]['timeAgo'],
            userPhoto: profile.profilePic!,
          );
       },
      ),
```

15. Run the project and check if there's no error it will return login page similar like this.



Testing

- 1) Open home_page_test.dart file under test folder
- 2) Find main method it will look similar like this

- 3) Click Run
- 4) If there's an error while running the test, especially around line 1013 onward simply press close to remove the warning

5) At the moment not all test are passed since we've not finished implementing home page, just make sure these 7 test are passed

6) If there is an error try to check the message and fix the error usually It's because of wrong key name or missing property of specific widget

FULL CODE

PostItem

```
import 'package:example_widget_testing/core/theme/colors.dart';
import 'package:flutter/material.dart';
import 'package:flutter svg/flutter svg.dart';
class PostItem extends StatelessWidget {
 final String profileImg;
 final String name;
 final String postImg;
 final String caption;
 final bool isLoved;
 final String likedBy;
 final String viewCount;
 final String dayAgo;
 final String userPhoto;
 const PostItem({
   super.key,
    required this.profileImg,
    required this.name,
    required this.postImg,
    required this.caption,
    required this.isLoved,
    required this.likedBy,
   required this.viewCount,
    required this.dayAgo,
   required this.userPhoto,
 });
 @override
 Widget build(BuildContext context) {
    return Padding(
      key: const Key('post_item_padding'),
      padding: const EdgeInsets.only(bottom: 10),
      child: Column(
        key: const Key('post_item_column'),
        crossAxisAlignment: CrossAxisAlignment.start,
        children: <Widget>[
          Container(
            key: const Key('post_item_user_info_container'),
            padding: const EdgeInsets.symmetric(vertical: 10, horizontal: 15),
            margin: const EdgeInsets.only(bottom: 12),
            child: Row(
              key: const Key('post_item_user_info_row'),
              mainAxisAlignment: MainAxisAlignment.spaceBetween,
```

```
children: <Widget>[
      Container(
        key: const Key('post item user profile img container'),
        width: 40,
        height: 40,
        margin: const EdgeInsets.only(right: 15),
        decoration: BoxDecoration(
          shape: BoxShape.circle,
          image: DecorationImage(
            image: NetworkImage(profileImg),
            fit: BoxFit.cover,
          ),
        ),
      ),
      Expanded(
        key: const Key('post_item_user_name_expanded'),
        child: Text(
          key: const Key('post_item_user_name_text'),
          name,
          style: const TextStyle(
            color: white,
            fontSize: 15,
            fontWeight: FontWeight.w500,
          ),
        ),
      ),
      const Icon(
        key: Key('post_item_user_more_icon'),
        Icons.more horiz,
        color: white,
    ],
),
Container(
  key: const Key('post_item_image_container'),
 height: 400,
 margin: const EdgeInsets.only(bottom: 10),
  decoration: BoxDecoration(
    image: DecorationImage(
      image: NetworkImage(postImg),
      fit: BoxFit.cover,
    ),
  ),
),
Container(
  key: const Key('post_item_actions_container'),
 padding: const EdgeInsets.fromLTRB(15, 3, 15, 0),
```

```
margin: const EdgeInsets.only(bottom: 12),
  child: Row(
    key: const Key('post item actions row'),
    mainAxisAlignment: MainAxisAlignment.spaceBetween,
    children: <Widget>[
      Row(
        key: const Key('post_item_actions_left_row'),
        children: <Widget>[
          SvgPicture.asset(
            key: const Key('post_item_actions_love_icon'),
            isLoved
                ? "assets/images/loved icon.svg"
                : "assets/images/love icon.svg",
            width: 27,
          ),
          const SizedBox(
              key: Key('post_item_actions_left_row_sized_box_1'),
              width: 20),
          SvgPicture.asset(
            "assets/images/comment_icon.svg",
            key: const Key('post_item_actions_comment_icon'),
            width: 27,
          ),
          const SizedBox(
              key: Key('post_item_actions_left_row_sized_box_2'),
              width: 20),
          SvgPicture.asset(
            "assets/images/message_icon.svg",
            key: const Key('post_item_actions_message_icon'),
            width: 27,
          ),
        ],
      ),
      SvgPicture.asset(
        "assets/images/save_icon.svg",
        key: const Key('post_item_actions_save_icon'),
        width: 27,
      ),
    ],
  ),
),
Container(
  key: const Key('post_item_likes_container'),
  padding: const EdgeInsets.symmetric(horizontal: 15),
  margin: const EdgeInsets.only(bottom: 12),
  child: RichText(
    key: const Key('post_item_likes_rich_text'),
    text: TextSpan(
```

```
children: [
        TextSpan(
          text: "Liked by $likedBy and Other",
          style: const TextStyle(
            fontSize: 15,
            fontWeight: FontWeight.w500,
          ),
       ),
      ],
    ),
  ),
),
Container(
  key: const Key('post_item_caption_container'),
  padding: const EdgeInsets.symmetric(horizontal: 15),
  margin: const EdgeInsets.only(bottom: 12),
  child: RichText(
    key: const Key('post_item_caption_rich_text'),
    text: TextSpan(
      children: [
        TextSpan(
          text: "$name ",
          style: const TextStyle(
              fontSize: 15, fontWeight: FontWeight.w700),
        ),
        TextSpan(
          text: caption,
          style: const TextStyle(
              fontSize: 15, fontWeight: FontWeight.w500),
        ),
      ],
    ),
  ),
),
Container(
  key: const Key('post_item_view_comments_container'),
  padding: const EdgeInsets.symmetric(horizontal: 15),
  margin: const EdgeInsets.only(bottom: 12),
  child: Text(
    key: const Key('post_item_view_comments_text'),
    "View $viewCount comments",
    style: TextStyle(
        color: white.withOpacity(0.5),
        fontSize: 15,
        fontWeight: FontWeight.w500),
  ),
),
Container(
```

```
key: const Key('post_item_add_comment_container'),
            padding: const EdgeInsets.symmetric(horizontal: 15),
            margin: const EdgeInsets.only(bottom: 12),
            child: Row(
              key: const Key('post item add comment row'),
              mainAxisAlignment: MainAxisAlignment.spaceBetween,
              children: <Widget>[
                Row(
                  key: const Key('post_item_add_comment_left_row'),
                  children: <Widget>[
                    Container(
                       key: const
Key('post_item_add_comment_avatar_container'),
                      width: 30,
                       height: 30,
                       margin: const EdgeInsets.only(right: 15),
                       decoration: BoxDecoration(
                         shape: BoxShape.circle,
                         image: DecorationImage(
                           image: NetworkImage(userPhoto),
                           fit: BoxFit.cover,
                         ),
                       ),
                     ),
                    Text(
                       key: const Key('post_item_add_comment_text'),
                      "Add a comment...",
                       style: TextStyle(
                         color: white.withOpacity(0.5),
                         fontSize: 15,
                         fontWeight: FontWeight.w500,
                       ),
                     ),
                  ],
                ),
                Row(
                  key: const Key('post_item_add_comment_right_row'),
                  children: <Widget>[
                    const Text(
                       key: Key('post_item_add_laugh_emoji_text'),
                       "<del>@</del>",
                       style: TextStyle(fontSize: 20),
                     ),
                    const SizedBox(width: 10),
                    const Text(
                       key: Key('post_item_add_love_emoji_text'),
                       "*",
                      style: TextStyle(fontSize: 20),
```

```
),
                    const SizedBox(width: 10),
                      key: const Key('post_item_add_circle_icon'),
                      Icons.add circle,
                      color: white.withOpacity(0.5),
                      size: 18,
                 ],
             ],
           ),
         ),
         Padding(
           key: const Key('post_item_day_ago_padding'),
           padding: const EdgeInsets.symmetric(horizontal: 15),
           child: Text(
             key: const Key('post_item_day_ago_text'),
             dayAgo,
             style: TextStyle(
                color: white.withOpacity(0.5),
               fontSize: 15,
               fontWeight: FontWeight.w500,
             ),
           ),
      ],
     ),
});
```

HomePage

```
import
'package:example_widget_testing/app/modules/home/components/user_story.dart';
import 'package:example_widget_testing/app/widgets/post_item.dart';
import
'package:example_widget_testing/app/modules/home/components/story_item.dart';
import 'package:flutter/material.dart';
import '../../core/theme/colors.dart';
import '../../data/models/profile.dart';
import '../../widgets/bottom_navbar.dart';
class HomePage extends StatefulWidget {
    const HomePage({
```

```
super.key,
    required this.posts,
    required this.stories,
    required this.profileData,
 });
 final List posts;
 final List stories;
 final Map<String, dynamic> profileData;
 @override
 HomePageState createState() => HomePageState();
class HomePageState extends State<HomePage> {
 @override
 Widget build(BuildContext context) {
    final Profile profile = Profile.fromJson(widget.profileData);
    return Scaffold(
      key: const Key('home_page_scaffold'),
      backgroundColor: Colors.black,
      appBar: AppBar(
        key: const Key("home_page_appbar"),
        backgroundColor: Colors.black,
        leading: const Icon(
          key: Key('home_page_camera_icon'),
          Icons.camera_alt,
        ),
        title: const Center(
          key: Key('home_page_title_center'),
          child: Text(
            key: Key('home_page_title_text'),
            "Instagram",
            style: TextStyle(fontFamily: 'Billabong', fontSize: 35),
          ),
        ),
        actions: const <Widget>[
          Icon(key: Key('home_page_send_icon'), Icons.send),
        ],
      body: SingleChildScrollView(
        key: const Key('home_page_single_child_scroll_view'),
        child: Column(
          key: const Key('home_page_column'),
          children: <Widget>[
            SingleChildScrollView(
              key: const Key('stories_scroll_view'),
              scrollDirection: Axis.horizontal,
              child: Row(
```

```
key: const Key('stories_row'),
         children: <Widget>[
           const UserStory(key: Key('user story')),
           Row(
             key: const Key('following stories row'),
             children: List.generate(
               widget.stories.length,
               (index) {
                 return StoryItem(
                   key: Key('story_item_$index'),
                   img: widget.stories[index]['img'],
                   name: widget.stories[index]['name'],
                 );
               },
             ),
           ),
         ],
       ),
     ),
     Divider(
       key: const Key('home_page_divider'),
       color: white.withOpacity(0.3),
     ),
     Column(
       key: const Key('posts_column'),
       children: List.generate(
         widget.posts.length,
         (index) {
           return PostItem(
             key: Key('post_item_$index'),
             postImg: widget.posts[index]['postImg'],
             profileImg: widget.posts[index]['profileImg'],
             name: widget.posts[index]['name'],
             caption: widget.posts[index]['caption'],
             isLoved: widget.posts[index]['isLoved'],
             viewCount: widget.posts[index]['commentCount'],
             likedBy: widget.posts[index]['likedBy'],
             dayAgo: widget.posts[index]['timeAgo'],
             userPhoto: profile.profilePic!,
   ),},
           );
),
```