Experiment 5

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Aim: To apply navigation, routing and gestures in Flutter App

Theory:

1. Navigation:
    - Navigation refers to the process of moving between different screens or pages within a Flutter app.
    - In Flutter, navigation is typically managed using the Navigator class, which maintains a stack of routes.
    - Each route represents a screen or page in the app, and the navigator manages the navigation stack, allowing users to move forward and backward between routes.
    - Navigation can be triggered by user actions such as tapping buttons, selecting items from lists, or swiping between pages.

2. Routing:
    - Routing is the mechanism used to define and manage the routes within a Flutter app.
    - Routes are defined using route names and associated with corresponding widgets or screens.
    - Flutter provides several routing mechanisms, including named routes, on-the-fly routes, and nested routes.
    - Named routes allow developers to define routes with unique names and navigate to them using the Navigator based on these names.
    - On-the-fly routes are created dynamically at runtime and pushed onto the navigation stack as needed.
    - Nested routes involve embedding navigators within other navigators to create complex navigation structures, such as tab-based navigation or drawer navigation.

3. Gestures:
    - Gestures refer to user interactions such as tapping, dragging, swiping, pinching, and rotating on the screen.
    - Flutter provides a rich set of gesture recognition widgets and APIs to handle user gestures effectively.
    - Common gesture recognition widgets include GestureDetector, InkWell, InkResponse, Draggable, Dismissible, etc.
    - These widgets allow developers to detect various user gestures and trigger corresponding actions or animations in response.

- Gestures can be used to implement interactive UI elements, such as buttons, sliders, swipers, drag-and-drop interfaces, and more.

4. Gesture Detection:

    - Gesture detection in Flutter involves registering gesture recognizers on widgets to detect specific user interactions.
    - Gesture recognizers analyze touch input and determine whether a specific gesture has occurred, such as a tap, double-tap, long-press, drag, etc.
    - Once a gesture is detected, Flutter invokes the corresponding callback function associated with the gesture recognizer.
    - Developers can customize gesture detection by configuring properties such as gesture sensitivity, velocity thresholds, and touch area boundaries.

5. Gesture Handling:
    - After a gesture is detected, developers can handle it by performing various actions, such as updating UI state, navigating between screens, triggering animations, or executing business logic.
    - Gesture handling involves responding to user interactions in a way that provides feedback and enhances the user experience.
    - Flutter's declarative programming model makes it easy to update UI elements in response to user gestures, ensuring a smooth and responsive user interface.

home_screen.dart

```
import 'dart:math';
import 'package:animated_text_kit/animated_text_kit.dart';
import 'package:carousel_slider/carousel_slider.dart';
import 'package:flutter/foundation.dart';
import 'package:flutter/material.dart';
import 'package:flutter_screenutil/flutter_screenutil.dart';
import 'package:flutter_staggered_grid_view/flutter_staggered_grid_view.dart';
import 'package:google_fonts/google_fonts.dart';
import 'package:liquid_pull_to_refresh/liquid_pull_to_refresh.dart';
import 'package:pinterest_clone/screens/images_details_screen.dart';
import 'package:pinterest_clone/widget/api_call_waiting_widget.dart';
import 'package:shimmer/shimmer.dart';
import '../api/pexel_api_class.dart';
import '../model/pexel_model.dart';

import '../themes/container_random_colors.dart';
import '../widget/loading_Widget.dart';
import 'onboard_screen.dart';

class HomeScreen extends StatefulWidget {
```

```
  const HomeScreen({super.key});

  @override
  State<HomeScreen> createState() => _HomeScreenState();
}

class _HomeScreenState extends State<HomeScreen> {
  int currentIndex = 1;
  ScrollController scrollController = ScrollController();
  bool isStarted = false;
  List<Photo> curatedPhotos = [];
  bool isRefreshing = false;

  final GlobalKey<LiquidPullToRefreshState> _refreshIndicatorKey =
      GlobalKey<LiquidPullToRefreshState>();

  final GlobalKey<ScaffoldState> _scaffoldKey = GlobalKey<ScaffoldState>();

  final PexelsApi pexelsApi = PexelsApi(
      apiKey: 'MsB5RufxehOuViswILug2dAoqBtlXvyrRdfA0n1GnLL2MCIMbA2eD8Sk');

  final List<String> quotes = [
    "Exploring moments, capturing dreams where every frame tells a story of "
        "timeless beauty.",
    "Seeking moments in pixels, where every frame tells a story, and each "
        "image is a masterpiece waiting to be discovered.",
    "Discover moments, capture stories. Elevate your world with curated "
        "creativity."
  ];

  void handleRefresh() async {
    setState(() {
      isRefreshing = true;
    });

    try {
      List<Photo> newCuratedPhotos =
          await pexelsApi.getCuratedPhotos(page: 1, perPage: 15);

      setState(() {
        curatedPhotos = newCuratedPhotos;
      });
    } catch (error) {
      if (kDebugMode) {
        print('Error refreshing curated photos: $error');
      }
```

```
  }

  setState(() {
    isRefreshing = false;
  });
}

// void shareImage(String imageUrl, String photographer) {
//   Share.share(
//     'Check out this photo by $photographer: $imageUrl',
//     subject: 'Photo Sharing',
//   );
// }

@override
void initState() {
  super.initState();
  // Connectivity().checkConnectivity().then((ConnectivityResult result) {
  //   if (result == ConnectivityResult.none) {
  //     showNoInternetSnackbar();
  //   }
  // });
  //
  // Connectivity().onConnectivityChanged.listen((ConnectivityResult result) {
  //   if (result == ConnectivityResult.none) {
  //     showNoInternetSnackbar();
  //   }
  // });
}

// void showNoInternetSnackbar() {
//   final snackBar = SnackBar(
//     backgroundColor: Colors.transparent,
//     elevation: 0,
//     padding: const EdgeInsets.only(bottom: 750),
//     dismissDirection: DismissDirection.endToStart,
//     content: Container(
//         width: 190.w,
//         height: 56.h,
//         decoration: BoxDecoration(
//             shape: BoxShape.rectangle,
//             borderRadius: BorderRadius.circular(45),
//             color: Colors.red),
//         child: Center(
//           child: Text(
//             "Hmm... you're not connected to the \n internet",
```

```
//             style: GoogleFonts.poppins(
//                 color: Colors.black,
//                 fontWeight: FontWeight.w500,
//                 fontSize: 17.sp),
//             textAlign: TextAlign.center,
//           ),
//         )),
//     duration: const Duration(seconds: 2),
//   );
//
//   ScaffoldMessenger.of(context).showSnackBar(snackBar);
// }

@override
Widget build(BuildContext context) {
  // Connectivity().checkConnectivity().then((ConnectivityResult result) {
  //   if (result == ConnectivityResult.none) {
  //     showNoInternetSnackbar();
  //   }
  // });

  return LiquidPullToRefresh(
    key: _refreshIndicatorKey,
    onRefresh: () async {
      handleRefresh;
    },
    showChildOpacityTransition: true,
    color: Colors.grey.shade900,
    springAnimationDurationInMilliseconds: 800,
    backgroundColor: Colors.grey.shade600,
    child: Scaffold(
      key: _scaffoldKey,
      backgroundColor: Colors.transparent,
      body: NestedScrollView(
        physics: const AlwaysScrollableScrollPhysics(),
        headerSliverBuilder: (BuildContext context, bool isScrolled) {
          return [
            SliverAppBar(
              expandedHeight: 260.h,
              pinned: false,
              flexibleSpace: Stack(children: [
                FutureBuilder<List<Photo>>(
                  future: pexelsApi.getCuratedPhotos(page: 1, perPage: 10),
                  builder: (context, snapshot) {
                    if (snapshot.connectionState == ConnectionState.waiting) {
                      return Shimmer.fromColors(
```

```
    baseColor: Colors.grey[300]!,
    highlightColor: Colors.grey[100]!,
    child: CarouselSlider(
      options: CarouselOptions(
        height: 380.h,
        initialPage: 1,
        enlargeCenterPage: true,
        viewportFraction: 1,
        enlargeStrategy: CenterPageEnlargeStrategy.scale,
        enableInfiniteScroll: true,
      ),
      items: List.generate(3, (index) {
        return Container(
          decoration: BoxDecoration(
            color: Colors.grey.shade800,
          ),
        );
      }),
    ),
  );
} else if (snapshot.hasError) {
  return Text('Error: ${snapshot.error}');
} else if (snapshot.hasData) {
  final List<Photo> curatedPhotos = snapshot.data!;
  final middleIndex = curatedPhotos.length ~/ 2;
  return CarouselSlider(
    options: CarouselOptions(
      height: 380.h,
      initialPage: middleIndex,
      autoPlay: true,
      viewportFraction: 1,
      enlargeStrategy: CenterPageEnlargeStrategy.scale,
      enableInfiniteScroll: true,
    ),
    items: curatedPhotos.map((photo) {
      return Container(
        decoration: BoxDecoration(
          color: Colors.grey.shade800,
          image: DecorationImage(
            fit: BoxFit.cover,
            image: NetworkImage(photo.src['large']),
          ),
        ),
      );
    }).toList(),
  );
```

```
            } else {
              return YourLoadingWidget(
                child: Center(
                  child: Text(
                    "Error Loading",
                    style: GoogleFonts.poppins(
                        color: Colors.white,
                        fontWeight: FontWeight.w500),
                  ),
                ),
              );
            }
          },
        ),
        Center(
           child: AnimatedTextKit(
          animatedTexts: quotes.map((quote) {
            return TypewriterAnimatedText(
              quote,
              textStyle: GoogleFonts.poppins(
                color: Colors.white,
                fontSize: 20.sp,
                fontWeight: FontWeight.w500,
              ),
              speed: const Duration(milliseconds: 100),
              textAlign: TextAlign.center,
            );
          }).toList(),
        )),
      ]),
    ),
  ];
},
body: Padding(
  padding: const EdgeInsets.all(8.0),
  child: SizedBox(
    height: MediaQuery.of(context).size.height,
    child: FutureBuilder<List<Photo>>(
      future: pexelsApi.getCuratedPhotos(page: 3, perPage: 150),
      builder: (context, snapshot) {
        if (snapshot.connectionState == ConnectionState.waiting) {
          return const WaitingContainer();
        } else if (snapshot.hasError) {
          return Center(
            child: Text('Error: ${snapshot.error}'),
          );
```

```
} else if (snapshot.hasData) {
  final List<Photo> curatedPhotos = snapshot.data!;
  return MasonryGridView.builder(
     mainAxisSpacing: 10.0,
     crossAxisSpacing: 10.0,
     physics: const AlwaysScrollableScrollPhysics(),
     itemCount: curatedPhotos.length,
     itemBuilder: (context, index) {
      final photo = curatedPhotos[index];
      final double imageAspectRatio =
         photo.width / photo.height;
      return GestureDetector(
         onTap: () {
          Navigator.of(context).push(PageRouteBuilder(
            pageBuilder: (context, animation,
                  secondaryAnimation) =>
              ImageDetailsScreen(
             photo: photo,
             curatedPhotos: curatedPhotos,
             initialIndex: index,
            ),
            transitionsBuilder: (context, animation,
               secondaryAnimation, child) {
             const begin = Offset(0.0, 1.0);
             const end = Offset.zero;
             const curve = Curves.easeInOut;

             var tween = Tween(begin: begin, end: end)
                .chain(CurveTween(curve: curve));
             var offsetAnimation =
                animation.drive(tween);

             return SlideTransition(
                position: offsetAnimation,
                child: child);
            },
            transitionDuration:
               const Duration(milliseconds: 500),
          ));
         },
         child: Column(
          children: [
            AspectRatio(
             aspectRatio: imageAspectRatio,
             child: Container(
              margin: const EdgeInsets.all(5),
```

```
    decoration: BoxDecoration(
      borderRadius: BorderRadius.circular(15),
      color: ColorList.colorList[Random().nextInt(ColorList.colorList.length)],
      image: DecorationImage(
        fit: BoxFit.cover,
        image: NetworkImage(
            photo.src["large"] ?? ''),
      ),
    ),
    child: (photo.url != null)
        ? null
        : const Center(
            child: Icon(
              Icons.image_not_supported,
              size: 50,
              color: Colors.white,
            ),
          ),
  ),
),
Row(
  mainAxisAlignment:
      MainAxisAlignment.spaceBetween,
  children: [
    Flexible(
      child: Text(
        photo.alt,
        style: GoogleFonts.poppins(
          fontWeight: FontWeight.w500,
          fontSize: 14.sp,
          color: Colors.white,
        ),
      ),
    ),
    IconButton(
      icon: const Icon(
        Icons.more_horiz_sharp,
        color: Colors.white,
      ),
      onPressed: () {
        // shareImage(photo.src["large"] ?? '',
        //     photo.photographer);
      },
    ),
  ],
),
```

```
                        ],
                      ));
                },
                gridDelegate:
                    const SliverSimpleGridDelegateWithFixedCrossAxisCount(
                        crossAxisCount: 2));
            } else {
              return YourLoadingWidget(
                child: Container(),
              );
            }
          },
        ),
      ),
    ),
  ),
 ),
 );
 }

}
```

search_screen.dart

```
import 'dart:math';
import 'package:flutter/foundation.dart';
import 'package:flutter/material.dart';
import 'package:flutter_screenutil/flutter_screenutil.dart';
import 'package:flutter_staggered_grid_view/flutter_staggered_grid_view.dart';
import 'package:google_fonts/google_fonts.dart';
import 'package:pinterest_clone/screens/search_Screen_bottomsheet.dart';
import 'package:pinterest_clone/widget/api_call_waiting_widget.dart';
import '../api/pexel_api_class.dart';
import '../model/pexel_model.dart';
import '../themes/container_random_colors.dart';
import '../widget/loading_Widget.dart';
import '../widget/loading_indicator.dart';
import 'images_details_screen.dart';

class SearchScreen extends StatefulWidget {
  const SearchScreen({Key? key}) : super(key: key);

  @override
```

```
  State<SearchScreen> createState() => _SearchScreenState();
}

class _SearchScreenState extends State<SearchScreen> {
  List<Photo> _searchResults = [];
  bool _isLoading = false;
  // void shareImage(String imageUrl, String photographer) {
  //   Share.share(
  //     'Check out this photo by $photographer: $imageUrl',
  //     subject: 'Photo Sharing',
  //   );
  // }
  @override
  void initState() {
    super.initState();
  }
  final PexelsApi pexelsApi = PexelsApi(
      apiKey: 'MsB5RufxehOuViswILug2dAoqBtlXvyrRdfA0n1GnLL2MCIMbA2eD8Sk');

  Future<void> _searchPhotos(String query) async {
    try {
      // Existing code...

      final List<Photo> results = await PexelsApi(
          apiKey:
          'MsB5RufxehOuViswILug2dAoqBtlXvyrRdfA0n1GnLL2MCIMbA2eD8Sk')
          .searchPhotos(query);

      if (kDebugMode) {
        print("Search Results: $results");
      } // Add this line for debugging

      setState(() {
        _searchResults = results;
        _isLoading = false; // Move this line inside setState to ensure proper state update.
      });
    } catch (e) {
      // Handle error
      if (kDebugMode) {
        print("Error during search: $e");
      } // Add this line for debugging
      if (kDebugMode) {
        print(e.toString());
      }
      setState(() {
        _isLoading = false;
```

```
    });
  }
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.black,
    appBar: AppBar(
      title: GestureDetector(
        onTap: () {
          showModalBottomSheet(
            context: context,
            isDismissible: true,
            isScrollControlled: true,
            useSafeArea: true,
            shape: const RoundedRectangleBorder(
                borderRadius: BorderRadius.only(
                  topLeft: Radius.circular(15),
                  topRight: Radius.circular(15),
                )),
            builder: (BuildContext context) {
              return StatefulBuilder(
                builder: (BuildContext context,
                    void Function(void Function()) setState) {
                  return _searchBottomSheet();
                },
              );
            },
          );
        },
        child: Container(
          width: double.infinity,
          height: 46.h,
          padding: const EdgeInsets.all(8),
          decoration: BoxDecoration(
              shape: BoxShape.rectangle,
              borderRadius: BorderRadius.circular(45),
              color: Colors.grey.shade900),
          child:  Row(
            children: [
              Icon(Icons.search, color: Colors.grey.shade300,),
              Text(
                "Search Pinterest",
                style: GoogleFonts.poppins(
                    color: Colors.grey.shade300,
```

```
                fontWeight: FontWeight.w500,
                fontSize: 17.sp),
            textAlign: TextAlign.center,
          ),
        ],
      ),
    ),
  ),
  backgroundColor: Colors.black,

),
body: Padding(
  padding: const EdgeInsets.all(8.0),
  child: SizedBox(
    height: MediaQuery.of(context).size.height,
    child: FutureBuilder<List<Photo>>(
      future: pexelsApi.getCuratedPhotos(page: 5, perPage: 150),
      builder: (context, snapshot) {
        if (snapshot.connectionState == ConnectionState.waiting) {
          return const WaitingContainer();
        } else if (snapshot.hasError) {
          return Center(
            child: Text('Error: ${snapshot.error}'),
          );
        } else if (snapshot.hasData) {
          final List<Photo> curatedPhotos = snapshot.data!;
          return MasonryGridView.builder(
              mainAxisSpacing: 10.0,
              crossAxisSpacing: 10.0,
              physics: const AlwaysScrollableScrollPhysics(),
              itemCount: curatedPhotos.length,
              itemBuilder: (context, index) {
                final photo = curatedPhotos[index];
                final double imageAspectRatio =
                    photo.width / photo.height;
                return GestureDetector(
                    onTap: () {
                      Navigator.of(context).push(PageRouteBuilder(
                        pageBuilder: (context, animation,
                            secondaryAnimation) =>
                            ImageDetailsScreen(
                              photo: photo,
                              curatedPhotos: curatedPhotos,
                              initialIndex: index,
                            ),
                        transitionsBuilder: (context, animation,
```

```
        secondaryAnimation, child) {
      const begin = Offset(0.0, 1.0);
      const end = Offset.zero;
      const curve = Curves.easeInOut;

      var tween = Tween(begin: begin, end: end)
          .chain(CurveTween(curve: curve));
      var offsetAnimation =
      animation.drive(tween);

      return SlideTransition(
          position: offsetAnimation,
          child: child);
    },
    transitionDuration:
    const Duration(milliseconds: 500),
  ));
},
child: Column(
  children: [
    AspectRatio(
      aspectRatio: imageAspectRatio,
      child: Container(
        margin: const EdgeInsets.all(5),
        decoration: BoxDecoration(
          borderRadius: BorderRadius.circular(15),
          color: ColorList.colorList[Random().nextInt(ColorList.colorList.length)],
          image: DecorationImage(
            fit: BoxFit.cover,
            image: NetworkImage(
                photo.src["large"] ?? ''),
          ),
        ),
        child: (photo.url != null)
            ? null
            : const Center(
          child: Icon(
            Icons.image_not_supported,
            size: 50,
            color: Colors.white,
          ),
        ),
      ),
    ),
    Row(
      mainAxisAlignment:
```

```
                        MainAxisAlignment.spaceBetween,
                        children: [
                          Flexible(
                            child: Text(
                              photo.alt,
                              style: GoogleFonts.poppins(
                                fontWeight: FontWeight.w500,
                                fontSize: 14.sp,
                                color: Colors.white,
                              ),
                            ),
                          ),
                          IconButton(
                            icon: const Icon(
                              Icons.more_horiz_sharp,
                              color: Colors.white,
                            ),
                            onPressed: () {
                              // shareImage(photo.src["large"] ?? '',
                              //     photo.photographer);
                            },
                          ),
                        ],
                      ),
                    ],
                  ));
            },
            gridDelegate:
            const SliverSimpleGridDelegateWithFixedCrossAxisCount(
                crossAxisCount: 2));
        } else {
          return YourLoadingWidget(
            child: Container(),
          );
        }
      },
    ),
  ),
 );
}
Widget _searchBottomSheet() {
  return Container(
    decoration: const BoxDecoration(
      color: Colors.black,
      borderRadius: BorderRadius.only(
```

```
    topLeft: Radius.circular(15),
    topRight: Radius.circular(15),
  ),
),
child: Padding(
  padding: const EdgeInsets.all(8.0),
  child: Column(
    children: [
      Row(
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children: [
          SearchBottomSheetContent(
            onSearch: (query) {
              setState(() {
                _isLoading = true;
              });
              _searchPhotos(query).then((_) {
                setState(() {
                  _isLoading = false;
                });
              });
            },
          ),
          GestureDetector(
            onTap: () {
              Navigator.pop(context);
            },
            child: Text(
              "Cancel",
              style: GoogleFonts.poppins(
                color: Colors.white,
                fontWeight: FontWeight.w500,
                fontSize: 18.sp,
              ),
            ),
          ),
        ],
      ),
      SizedBox(height: 10.h),
      if (_isLoading)
        const Center(child: AnimatedCircularContainer())
      else
        Expanded(child: _buildSearchResults()),
    ],
  ),
),
```

```
  );
}


Widget _buildSearchResults() {
  return MasonryGridView.builder(
      mainAxisSpacing: 10.0,
      crossAxisSpacing: 10.0,
      physics: const AlwaysScrollableScrollPhysics(),
      itemCount: _searchResults.length,
      itemBuilder: (context, index) {
        final photo = _searchResults[index];
        final double imageAspectRatio =
            photo.width / photo.height;
        return GestureDetector(
            onTap: () {
              Navigator.of(context).push(PageRouteBuilder(
                pageBuilder: (context, animation,
                    secondaryAnimation) =>
                    ImageDetailsScreen(
                      photo: photo,
                      curatedPhotos: _searchResults,
                      initialIndex: index,
                    ),
                transitionsBuilder: (context, animation,
                    secondaryAnimation, child) {
                  const begin = Offset(0.0, 1.0);
                  const end = Offset.zero;
                  const curve = Curves.easeInOut;

                  var tween = Tween(begin: begin, end: end)
                      .chain(CurveTween(curve: curve));
                  var offsetAnimation =
                  animation.drive(tween);

                  return SlideTransition(
                      position: offsetAnimation,
                      child: child);
                },
                transitionDuration:
                const Duration(milliseconds: 500),
              ));
            },
            child: Column(
              children: [
                AspectRatio(
```

```
  aspectRatio: imageAspectRatio,
  child: Container(
    margin: const EdgeInsets.all(5),
    decoration: BoxDecoration(
      borderRadius: BorderRadius.circular(15),
      color: ColorList.colorList[Random().nextInt(ColorList.colorList.length)],
      image: DecorationImage(
        fit: BoxFit.cover,
        image: NetworkImage(
            photo.src["large"] ?? ''),
      ),
    ),
    child: (photo.url != null)
        ? null
        : const Center(
      child: Icon(
        Icons.image_not_supported,
        size: 50,
        color: Colors.white,
      ),
    ),
  ),
),
Row(
  mainAxisAlignment:
  MainAxisAlignment.spaceBetween,
  children: [
    Flexible(
      child: Text(
        photo.alt,
        style: GoogleFonts.poppins(
          fontWeight: FontWeight.w500,
          fontSize: 14.sp,
          color: Colors.white,
        ),
      ),
    ),
    IconButton(
      icon: const Icon(
        Icons.more_horiz_sharp,
        color: Colors.white,
      ),
      onPressed: () {
        // shareImage(photo.src["large"] ?? '',
        //     photo.photographer);
      },
```

```
                    ),
                  ],
                ),
              ],
            ));
      },
      gridDelegate:
      const SliverSimpleGridDelegateWithFixedCrossAxisCount(
          crossAxisCount: 2));
  }

}
```

upload_screen.dart

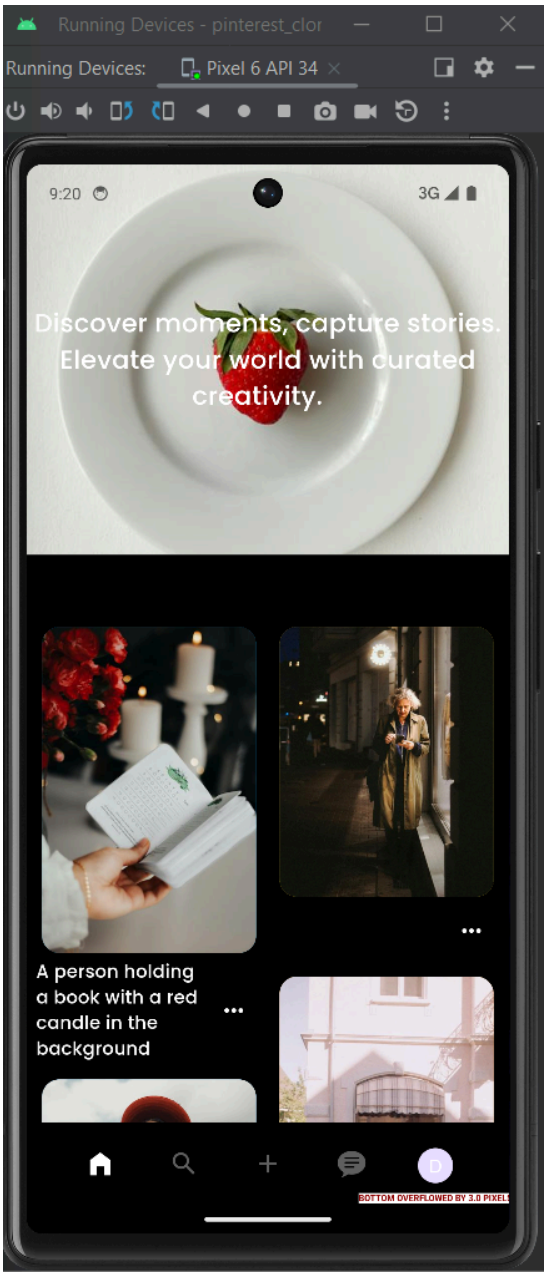
```
import 'package:flutter/material.dart';
import 'package:flutter_screenutil/flutter_screenutil.dart';

class MessageScreen extends StatefulWidget {
  const MessageScreen({super.key});

  @override
  State<MessageScreen> createState() => _MessageScreenState();
}

class _MessageScreenState extends State<MessageScreen> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.black,
      body: Column(
        crossAxisAlignment: CrossAxisAlignment.center,
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Center(
            child: Image.asset("assets/images/pinterst.png",
              width: 60.w,
              height: 60.h,),

          )
        ],
      ),
    );
  }
}
```

message_screen.dart

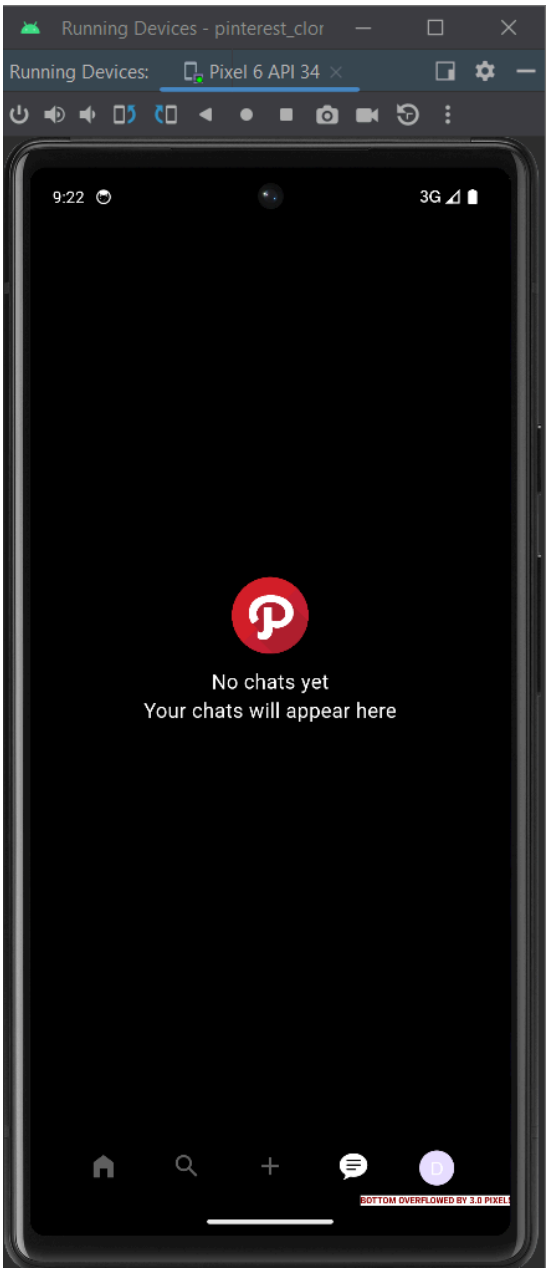
```
import 'package:flutter/material.dart';
import 'package:flutter_screenutil/flutter_screenutil.dart';

class ProfileScreen extends StatefulWidget {
  const ProfileScreen({super.key});

  @override
  State<ProfileScreen> createState() => _ProfileScreenState();
}

class _ProfileScreenState extends State<ProfileScreen> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.black,
      body: Column(
        crossAxisAlignment: CrossAxisAlignment.center,
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Center(
            child: Column(
              children: [
                Image.asset(
                  "assets/images/pinterst.png",
                  width: 60.w,
                  height: 60.h,
                ),
                SizedBox(height: 10.h), // Adding space between image and text
                Text(
                  'No chats yet',
                  style: TextStyle(
                    color: Colors.white,
                    fontSize: 16.sp,
                  ),
                ),
                Text(
                  'Your chats will appear here',
                  style: TextStyle(
                    color: Colors.white,
                    fontSize: 16.sp,
                  ),
                ),
              ],
```

```
            ),
          )
        ],
      ),
    );
  }
}
```

App UI:

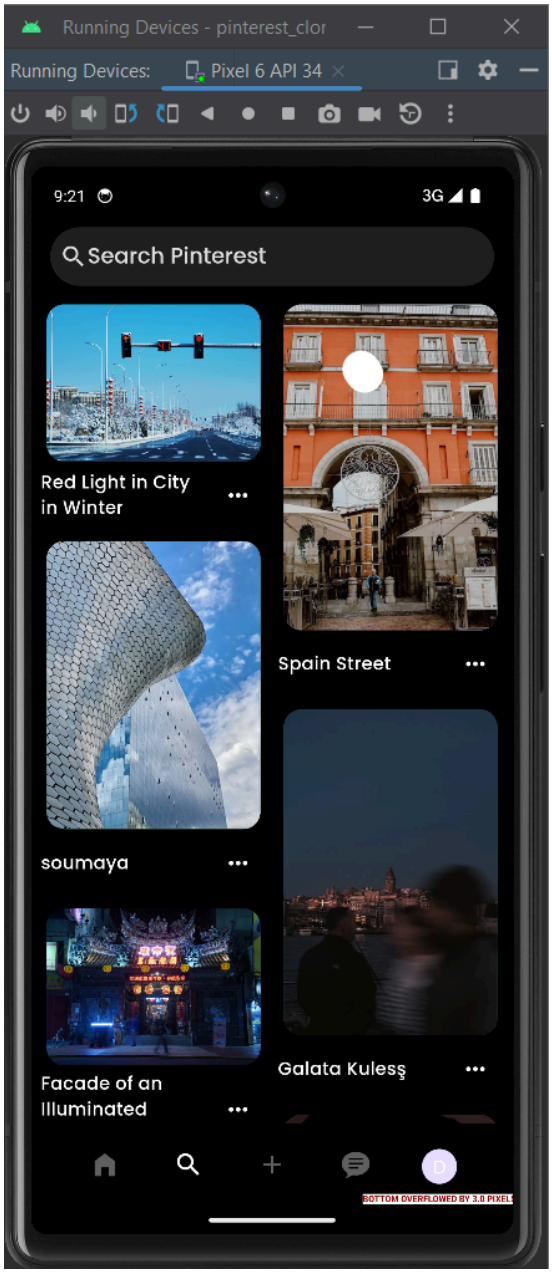


Home Page

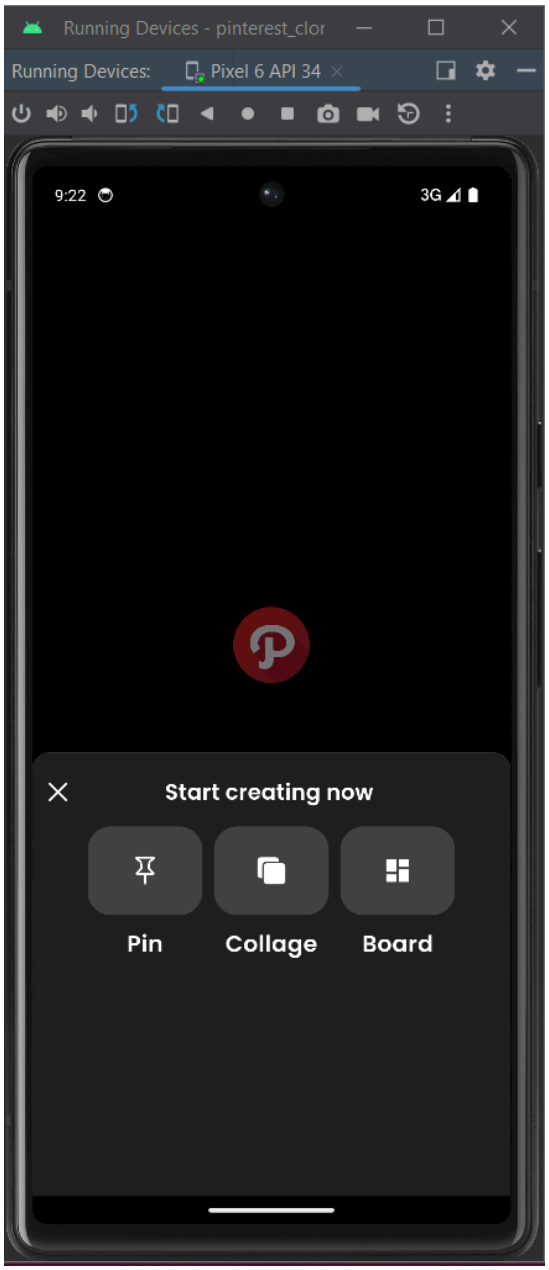


Chat page

Widgets used: Images, Text, Bottom nav bar, Icons



Search page



Upload page

Widgets used: Images, Text, Bottom nav bar, Icons, Bottom sheet, Text field

Conclusion: Therefore understood navigation, routing, gesture detection and gesture handling in Flutter and implemented the same in my Flutter application to route different pages.