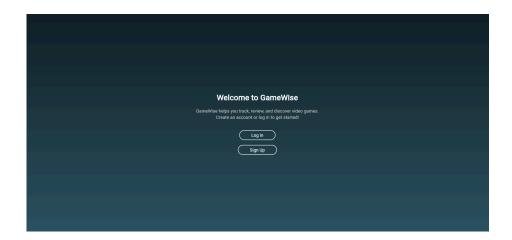
#### main.dart

```
/// Main entry point of the Gamewise Flutter app.
/// This file initializes Firebase and runs the app. Firebase is used for authentication
/// and possibly other database operations. We first ensure that Flutter bindings are
/// initialized before any asynchronous code executes.
import 'package:flutter/material.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'firebase_options.dart';
// Import navigation targets
import 'login_page.dart';
import 'signup_page.dart';
import 'dashboard_page.dart';
/// The 'main' function is the starting point for any Flutter app.
/// Here, we make sure everything related to Flutter is initialized,
/// then initialize Firebase, and finally launch the app.
void main() async {
 WidgetsFlutterBinding.ensureInitialized(); // Required for async setup in main()
 await Firebase.initializeApp(
  options: DefaultFirebaseOptions.currentPlatform, // Platform-specific Firebase config
 runApp(const GamewiseApp()); // Launch the root widget
/// Root widget of the Gamewise app.
/// This is a stateless widget because the root itself doesn't need to manage state.
class GamewiseApp extends StatelessWidget {
 const GamewiseApp({super.key});
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   title: 'Gamewise', // Title shown in app switcher
   debugShowCheckedModeBanner: false, // Hides the red debug banner
   home: const HomePage(), // Initial route of the app
  );
}
/// Home screen shown on app launch.
/// Provides two main navigation options: Log In or Sign Up.
class HomePage extends StatelessWidget {
 const HomePage({super.key});
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   body: Container(
    decoration: const BoxDecoration(
     // Background gradient styling
```

```
gradient: LinearGradient(
  colors: [
   Color(0xFF0F2027),
   Color(0xFF203A43),
   Color(0xFF2C5364),
  begin: Alignment.topCenter,
  end: Alignment.bottomCenter,
),
),
child: Center(
 child: Padding(
  padding: const EdgeInsets.all(32.0),
  child: Column(
   mainAxisAlignment: MainAxisAlignment.center,
   children: [
    // Welcome title
    const Text(
      'Welcome to GameWise',
      style: TextStyle(
       fontSize: 32,
       fontWeight: FontWeight.bold,
       color: Colors.white,
      ),
     textAlign: TextAlign.center,
    ),
    const SizedBox(height: 20),
    // Introductory description
    const Text(
      'GameWise helps you track, review, and discover video games.\n'
      'Create an account or log in to get started!',
      style: TextStyle(
       fontSize: 18,
       color: Colors.white70,
      ),
     textAlign: TextAlign.center,
    ),
    const SizedBox(height: 40),
    // Log In button
    OutlinedButton(
      onPressed: () {
       Navigator.push(
        context,
        MaterialPageRoute(builder: (context) ⇒ const LoginPage()),
       );
      },
      style: OutlinedButton.styleFrom(
       side: const BorderSide(color: Colors.white, width: 2),
       foregroundColor: Colors.white,
       padding: const EdgeInsets.symmetric(horizontal: 50, vertical: 18),
       textStyle: const TextStyle(fontSize: 18),
       shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(30),
      ),
     ),
     child: const Text('Log In'),
    ),
```

```
const SizedBox(height: 20),
         // Sign Up button
         OutlinedButton(
          onPressed: () {
           Navigator.push(
             context,
             MaterialPageRoute(builder: (context) ⇒ const SignUpPage()),
           );
          },
          style: OutlinedButton.styleFrom(
           side: const BorderSide(color: Colors.white, width: 2),
           foregroundColor: Colors.white,
           padding: const EdgeInsets.symmetric(horizontal: 50, vertical: 18),
           textStyle: const TextStyle(fontSize: 18),
           shape: RoundedRectangleBorder(
             borderRadius: BorderRadius.circular(30),
           ),
          ),
          child: const Text('Sign Up'),
         ),
        ],
       ),
     ),
    ),
   ),
  );
Key Learning Points:
- Use WidgetsFlutterBinding.ensureInitialized() before async code in main().
- Use StatelessWidget for screens without internal state.
- Use Navigator.push() for navigation between pages.
- Prefer SizedBox for spacing instead of manual padding.
- Organize major pages in separate files for clarity and modularity.
- Apply early styling (e.g., background gradients) to improve UX.
*/
```

This is what we see when entering the website. A login button and a signup button.



# login\_page.dart

```
// Import core Flutter material UI library
import 'package:flutter/material.dart';
// Firebase Auth library for email/password and credential-based login
import 'package:firebase_auth/firebase_auth.dart';
// Google Sign-In library to allow Google-based authentication
import 'package:google_sign_in/google_sign_in.dart';
// Dashboard page shown after successful login
import 'dashboard_page.dart';
// HomePage allows users to return from login
import 'main.dart';
/// LoginPage is a stateful widget because it needs to track the values
/// of user inputs and handle login interactions.
class LoginPage extends StatefulWidget {
const LoginPage({super.key});
 @override
State<LoginPage> createState() ⇒ _LoginPageState();
class _LoginPageState extends State<LoginPage> {
// Controllers to capture user input for email and password
 final _emailController = TextEditingController();
 final _passwordController = TextEditingController();
 /// Handles login using email and password via Firebase Authentication.
 void _login() async {
  String email = _emailController.text.trim();
  String password = _passwordController.text.trim();
  // Simple input validation
  if (email.isEmpty | password.isEmpty) {
   ScaffoldMessenger.of(context).showSnackBar(
    const SnackBar(content: Text('Please enter email and password')),
   );
   return;
  }
   // Attempt to sign in with Firebase using email/password
   await FirebaseAuth.instance.signInWithEmailAndPassword(
    email: email,
    password: password,
   );
   // If successful, navigate to the dashboard and replace the current screen
   Navigator.pushReplacement(
    context,
    MaterialPageRoute(builder: (context) ⇒ const DashboardPage()),
  } on FirebaseAuthException catch (e) {
   // Handle Firebase-specific errors and display user-friendly messages
   String message = ";
   if (e.code == 'user-not-found') {
    message = 'No user found for that email.';
   } else if (e.code == 'wrong-password') {
    message = 'Wrong password provided.';
   } else {
    message = 'Login failed: ${e.message}';
```

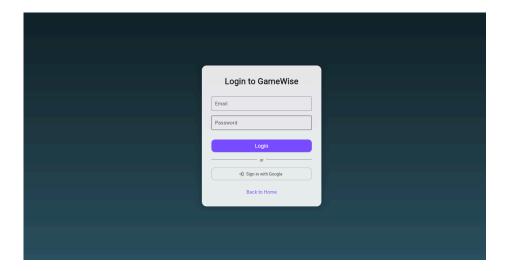
```
ScaffoldMessenger.of(context).showSnackBar(
   SnackBar(content: Text(message)),
  );
 }
}
/// Handles Google Sign-In and Firebase Authentication with Google credentials.
Future<void> _signInWithGoogle() async {
 try {
  // Launch Google sign-in prompt
  final GoogleSignInAccount? googleUser = await GoogleSignIn(
   clientId: '602783046019-5333cekolocth3ntgnbcgdummml1kg4l.apps.googleusercontent.com',
  ).signIn();
  // If user cancels login
  if (googleUser == null) {
   return;
  }
  // Get auth credentials from Google account
  final\ Google SignIn Authentication\ google Auth = await\ google User. authentication;
  final credential = GoogleAuthProvider.credential(
   accessToken: googleAuth.accessToken,
   idToken: googleAuth.idToken,
  );
  // Use credentials to sign in with Firebase
  await FirebaseAuth.instance.signInWithCredential(credential);
  // Navigate to the dashboard
  Navigator.pushReplacement(
   context,
   MaterialPageRoute(builder: (context) ⇒ const DashboardPage()),
  );
 } catch (e) {
  // Catch any unexpected errors
  ScaffoldMessenger.of(context).showSnackBar(
   SnackBar(content: Text('Google sign-in failed: ${e.toString()}')),
  );
}
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  body: Container(
   // Gradient background
   decoration: const BoxDecoration(
    gradient: LinearGradient(
     colors: [
       Color(0xFF0F2027),
       Color(0xFF203A43),
       Color(0xFF2C5364),
     begin: Alignment.topCenter,
     end: Alignment.bottomCenter,
    ),
   ),
```

```
child: Center(
 child: SingleChildScrollView(
  child: Container(
   constraints: const BoxConstraints(maxWidth: 400), // max width for better desktop/tablet layout
   padding: const EdgeInsets.all(32),
   decoration: BoxDecoration(
    color: Colors.white.withOpacity(0.9),
    borderRadius: BorderRadius.circular(16),
    boxShadow: [
     BoxShadow(
      color: Colors.black.withOpacity(0.2),
      blurRadius: 20,
      spreadRadius: 5,
     ),
    ],
   ),
   child: Column(
    mainAxisSize: MainAxisSize.min,
    children: [
     const Text(
      'Login to GameWise',
      style: TextStyle(
       fontSize: 28,
       fontWeight: FontWeight.bold,
      ),
     ),
     const SizedBox(height: 32),
     // Email input field
     TextField(
      controller: _emailController,
      decoration: const InputDecoration(
       labelText: 'Email',
       border: OutlineInputBorder(),
      ),
     ),
     const SizedBox(height: 16),
     // Password input field
     TextField(
      controller: _passwordController,
      obscureText: true, // hides password input
      decoration: const InputDecoration(
       labelText: 'Password',
       border: OutlineInputBorder(),
      ),
     ),
     const SizedBox(height: 32),
     // Login button (email + password)
     ElevatedButton(
      onPressed: _login,
      style: ElevatedButton.styleFrom(
       backgroundColor: Colors.deepPurpleAccent,
       foregroundColor: Colors.white,
       minimumSize: const Size.fromHeight(50),
       shape: RoundedRectangleBorder(
         borderRadius: BorderRadius.circular(12),
       ),
```

```
child: const Text('Login', style: TextStyle(fontSize: 18)),
     ),
     const SizedBox(height: 16),
     // Divider with "or"
     Row(
      children: const [
       Expanded(child: Divider(color: Colors.black54)),
       Padding(
        padding: EdgeInsets.symmetric(horizontal: 8.0),
        child: Text("or"),
       Expanded(child: Divider(color: Colors.black54)),
     ],
     ),
     const SizedBox(height: 16),
     // Google sign-in button
     OutlinedButton.icon(
      onPressed: _signInWithGoogle,
      icon: const lcon(lcons.login),
      label: const Text('Sign in with Google'),
      style: OutlinedButton.styleFrom(
       foregroundColor: Colors.black87,
       minimumSize: const Size.fromHeight(50),
       shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(12),
       ),
       side: const BorderSide(color: Colors.black26),
     ),
     ),
     const SizedBox(height: 24),
     // Navigation: Back to home
     TextButton(
      onPressed: () {
       Navigator.pushAndRemoveUntil(
        context,
        MaterialPageRoute(builder: (context) ⇒ const HomePage()),
        (route) ⇒ false, // Clear the entire navigation stack
       );
      },
      child: const Text(
       'Back to Home',
       style: TextStyle(color: Colors.deepPurpleAccent, fontSize: 16),
    ),
   ],
  ),
 ),
),
```

);

When we click on the log in button we get into here:



# signup\_page.dart

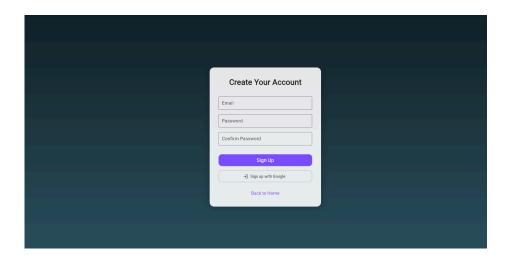
```
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:google_sign_in/google_sign_in.dart';
import 'dashboard_page.dart';
import 'main.dart';
class SignUpPage extends StatefulWidget {
 const SignUpPage({super.key});
 @override
 State < SignUpPage > createState() \Rightarrow \_SignUpPageState();
class _SignUpPageState extends State<SignUpPage> {
 final _emailController = TextEditingController();
 final _passwordController = TextEditingController();
 final _confirmPasswordController = TextEditingController();
 void _signUp() async {
  String email = _emailController.text.trim();
  String password = _passwordController.text.trim();
  String confirmPassword = _confirmPasswordController.text.trim();
  if (email.isEmpty | password.isEmpty | confirmPassword.isEmpty) {
   ScaffoldMessenger.of(context).showSnackBar(
    const SnackBar(content: Text('Please fill all fields')),
   );
   return;
  }
  if (password != confirmPassword) {
   ScaffoldMessenger.of(context).showSnackBar(
    const SnackBar(content: Text('Passwords do not match')),
   );
   return;
```

```
try {
  final userCredential = await FirebaseAuth.instance.createUserWithEmailAndPassword(
   email: email,
   password: password,
  );
  ScaffoldMessenger.of(context).showSnackBar(
   SnackBar(content: Text('Account created for ${userCredential.user?.email ?? 'unknown'}')),
  );
  Navigator.pushReplacement(
   context,
   MaterialPageRoute(builder: (context) ⇒ const DashboardPage()),
  );
 } on FirebaseAuthException catch (e) {
  ScaffoldMessenger.of(context).showSnackBar(
   SnackBar(content: Text('Error: ${e.message}')),
  );
 } catch (e) {
  ScaffoldMessenger.of(context).showSnackBar(
   SnackBar(content: Text('Unexpected error: ${e.toString()}')),
  );
 }
}
Future<void>_signInWithGoogle() async {
 try {
  final GoogleSignInAccount? googleUser = await GoogleSignIn(
   clientId: '602783046019-5333cekolocth3ntgnbcgdummml1kg4l.apps.googleusercontent.com',
  ).signln();
  if (googleUser == null) return;
  final googleAuth = await googleUser.authentication;
  final credential = GoogleAuthProvider.credential(
   accessToken: googleAuth.accessToken,
   idToken: googleAuth.idToken,
  );
  await FirebaseAuth.instance.signInWithCredential(credential);
  Navigator.pushReplacement(
   context,
   MaterialPageRoute(builder: (context) ⇒ const DashboardPage()),
  );
 } catch (e) {
  ScaffoldMessenger.of(context).showSnackBar(
   SnackBar(content: Text('Google sign-up failed: ${e.toString()}')),
  );
 }
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  body: Container(
   decoration: const BoxDecoration(
    gradient: LinearGradient(
     colors: [
```

```
Color(0xFF0F2027),
   Color(0xFF203A43),
   Color(0xFF2C5364),
  begin: Alignment.topCenter,
  end: Alignment.bottomCenter,
),
),
child: Center(
 child: SingleChildScrollView(
  child: Container(
   constraints: const BoxConstraints(maxWidth: 400),
   padding: const EdgeInsets.all(32),
   decoration: BoxDecoration(
    color: Colors.white.withOpacity(0.9),
    borderRadius: BorderRadius.circular(16),
    boxShadow: [
     BoxShadow(
       color: Colors.black.withOpacity(0.2),
       blurRadius: 20,
       spreadRadius: 5,
     ),
    ],
   ),
   child: Column(
    mainAxisSize: MainAxisSize.min,
    children: [
      const Text(
       'Create Your Account',
       style: TextStyle(fontSize: 28, fontWeight: FontWeight.bold),
      const SizedBox(height: 32),
      TextField(
       controller: _emailController,
       decoration: const InputDecoration(
        labelText: 'Email',
        border: OutlineInputBorder(),
      ),
      ),
      const SizedBox(height: 16),
      TextField(
       controller: _passwordController,
       obscureText: true,
       decoration: const InputDecoration(
        labelText: 'Password',
        border: OutlineInputBorder(),
       ),
      const SizedBox(height: 16),
      TextField(
       controller: _confirmPasswordController,
       obscureText: true,
       decoration: const InputDecoration(
        labelText: 'Confirm Password',
        border: OutlineInputBorder(),
      ),
      ),
      const SizedBox(height: 32),
      ElevatedButton(
```

```
onPressed: _signUp,
        style: ElevatedButton.styleFrom(
         backgroundColor: Colors.deepPurpleAccent,
         foregroundColor: Colors.white,
         minimumSize: const Size.fromHeight(50),
         shape: RoundedRectangleBorder(
          borderRadius: BorderRadius.circular(12),
         ),
        ),
        child: const Text('Sign Up', style: TextStyle(fontSize: 18)),
       ),
       const SizedBox(height: 16),
       OutlinedButton.icon(
        onPressed: _signInWithGoogle,
        icon: const lcon(lcons.login),
        label: const Text('Sign up with Google'),
        style: OutlinedButton.styleFrom(
         foregroundColor: Colors.black87,
         minimumSize: const Size.fromHeight(50),
         shape: RoundedRectangleBorder(
          borderRadius: BorderRadius.circular(12),
         ),
         side: const BorderSide(color: Colors.black26),
        ),
       ),
       const SizedBox(height: 24),
       TextButton(
        onPressed: () {
         Navigator.pushAndRemoveUntil(
          context,
          MaterialPageRoute(builder: (context) ⇒ const HomePage()),
          (route) ⇒ false,
         );
        },
        child: const Text(
         'Back to Home',
         style: TextStyle(color: Colors.deepPurpleAccent, fontSize: 16),
        ),
       ),
     ],
    ),
 ),
),
```

When click on the sign up button:



### dashboard\_page.dart

```
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
import 'login_page.dart';
import 'add_game_page.dart';
import 'create_list_page.dart';
import 'edit_profile_page.dart';
import 'edit_game_page.dart';
import 'view_list_page.dart';
class DashboardPage extends StatefulWidget {
 const DashboardPage({super.key});
 @override
 State<DashboardPage> createState() ⇒ _DashboardPageState();
class _DashboardPageState extends State<DashboardPage> {
int _selectedIndex = 0;
 final _searchController = TextEditingController();
 String _searchQuery = ";
 void _logout() async {
  await FirebaseAuth.instance.signOut();
  Navigator.pushReplacement(context, MaterialPageRoute(builder: (_) ⇒ const LoginPage()));
 void _navigateTo(int index) {
  setState(() {
   _selectedIndex = index;
  });
  Navigator.pop(context); // Close the drawer
 Future<void> deleteGameEverywhere(String gameId) async {
 final user = FirebaseAuth.instance.currentUser;
 if (user == null) return;
 final userRef = FirebaseFirestore.instance.collection('users').doc(user.uid);
```

```
// 1. Delete from "My Games"
 await userRef.collection('games').doc(gameId).delete();
 // 2. Fetch all user lists
 final listsSnapshot = await userRef.collection('lists').get();
 for (final listDoc in listsSnapshot.docs) {
  final listId = listDoc.id;
  final gameDocRef = userRef
     .collection('lists')
     .doc(listId)
     .collection('games')
     .doc(gameld);
  final gameDoc = await gameDocRef.get();
  if (gameDoc.exists) {
   await gameDocRef.delete();
  }
}
}
 @override
 Widget build(BuildContext context) {
  final user = FirebaseAuth.instance.currentUser;
  return Scaffold(
   appBar: AppBar(
    title: const Text("GameWise Dashboard"),
   drawer: Drawer(
    child: ListView(
      padding: Edgelnsets.zero,
      children: [
       DrawerHeader(
        decoration: const BoxDecoration(color: Colors.deepPurpleAccent),
        child: Column(
         crossAxisAlignment: CrossAxisAlignment.start,
         children: [
          const lcon(lcons.videogame_asset, size: 48, color: Colors.white),
          const SizedBox(height: 8),
          Text(user?.email ?? '', style: const TextStyle(color: Colors.white)),
         ],
        ),
       ),
       ListTile(
        leading: const Icon(Icons.gamepad),
        title: const Text("My Games"),
        selected: _selectedIndex == 0,
        onTap: () \Rightarrow _navigateTo(0),
       ),
       ListTile(
        leading: const lcon(lcons.list),
        title: const Text("My Lists"),
        selected: _selectedIndex == 1,
        onTap: () \Rightarrow _navigateTo(1),
       ),
       ListTile(
        leading: const lcon(lcons.person),
```

```
title: const Text("My Profile"),
       selected: _selectedIndex == 2,
       onTap: () \Rightarrow _navigateTo(2),
      ),
      const Divider(),
      ListTile(
       leading: const lcon(lcons.logout),
       title: const Text("Logout"),
       onTap: _logout,
      ),
    ],
   ),
  ),
  body: IndexedStack(
   index: _selectedIndex,
   children: [
    _buildGamesView(context, user),
    _buildListsView(context, user),
    _buildProfileView(context, user),
   ],
  ),
  floatingActionButton: _selectedIndex == 0
    ? FloatingActionButton(
       onPressed: () {
        Navigator.push(context, MaterialPageRoute(builder: (_) ⇒ const AddGamePage()));
       child: const lcon(lcons.add),
    :_selectedIndex == 1
       ? FloatingActionButton(
         onPressed: () {
          Navigator.push(context, MaterialPageRoute(builder: (\_) \Rightarrow const CreateListPage()));
         },
         child: const lcon(lcons.add),
        )
       : null,
 );
Widget _buildGamesView(BuildContext context, User? user) {
final gamesRef = FirebaseFirestore.instance
  .collection('users')
  .doc(user?.uid)
  .collection('games')
  .orderBy('createdAt', descending: true);
return Container(
color: const Color(0xFF1E1E2C),
padding: const EdgeInsets.all(16),
child: Container(
 padding: const EdgeInsets.all(16),
 decoration: BoxDecoration(
  color: Colors.white.withOpacity(0.08),
  borderRadius: BorderRadius.circular(12),
  boxShadow: [BoxShadow(color: Colors.black26, blurRadius: 6)],
 ),
 child: Column(
  crossAxisAlignment: CrossAxisAlignment.start,
  children: [
```

```
const Text(
 'My Games',
 style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold, color: Colors.white),
const SizedBox(height: 12),
TextField(
 controller: _searchController,
 decoration: InputDecoration(
  hintText: 'Search games...',
  fillColor: Colors.white,
  filled: true,
  prefixIcon: const Icon(Icons.search),
  border: OutlineInputBorder(borderRadius: BorderRadius.circular(12)),
 ),
 onChanged: (value) {
  setState(() ⇒ _searchQuery = value.toLowerCase());
 },
),
const SizedBox(height: 16),
Expanded(
 child: StreamBuilder<QuerySnapshot>(
  stream: gamesRef.snapshots(),
  builder: (context, snapshot) {
   if (snapshot.connectionState == ConnectionState.waiting) {
    return const Center(child: CircularProgressIndicator());
   if (!snapshot.hasData | snapshot.data!.docs.isEmpty) {
    return const Center(
     child: Text('You haven\'t added any games yet.',
        style: TextStyle(color: Colors.white70)),
    );
   }
   final games = snapshot.data!.docs.where((doc) {
    final title = (doc['title'] ?? '').toString().toLowerCase();
    return title.contains(_searchQuery);
   }).toList();
   if (games.isEmpty) {
    return const Center(
     child: Text('No matching games found.',
        style: TextStyle(color: Colors.white70)),
    );
   }
   return ListView.separated(
    itemCount: games.length,
    separatorBuilder: (\_, \_) \Rightarrow const Divider(indent: 72, endIndent: 16, thickness: 0.4, color: Colors.white24),
    itemBuilder: (context, index) {
      final game = games[index];
      final data = game.data() as Map<String, dynamic>;
      return Dismissible(
       key: Key(game.id),
       direction: DismissDirection.endToStart,
       background: Container(
        color: Colors.red,
        alignment: Alignment.centerRight,
        padding: const EdgeInsets.only(right: 20),
```

```
child: const lcon(lcons.delete_forever, color: Colors.white, size: 32),
    ),
     confirmDismiss: (_) async {
      return await showDialog(
       context: context,
       builder: (context) ⇒ AlertDialog(
        title: const Text('Delete Game?'),
        content: const Text('Are you sure you want to delete this game?'),
         TextButton(onPressed: () ⇒ Navigator.of(context).pop(false), child: const Text('Cancel')),
         TextButton(onPressed: () ⇒ Navigator.of(context).pop(true), child: const Text('Delete')),
        ],
       ),
      );
    },
     onDismissed: (_) async {
      await deleteGameEverywhere(game.id);
      ScaffoldMessenger.of(context).showSnackBar(
       const SnackBar(content: Text('Game deleted from My Games and all lists')),
     );
    },
     child: ListTile(
      leading: data['coverUrl'] != null && data['coverUrl'] != "
        ? ClipRRect(
           borderRadius: BorderRadius.circular(6),
           child: Image.network(data['coverUrl'], width: 50, height: 50, fit: BoxFit.cover),
        : const lcon(lcons.videogame_asset, color: Colors.deepPurpleAccent),
      title: Text(data['title'] ?? 'No Title',
        style: const TextStyle(color: Colors.white, fontWeight: FontWeight.w600)),
      subtitle: Column(
       crossAxisAlignment: CrossAxisAlignment.start,
       children: [
        if (data['platform'] != null) Text('Platform: ${data['platform']}', style: const TextStyle(color: Colors.white70
        if (data['releaseDate'] != null) Text('Release: ${data['releaseDate']}', style: const TextStyle(color: Colors.w
        if (data['rating'] != null) Text('Rating: ${data['rating']}/5', style: const TextStyle(color: Colors.amber)),
        if (data['review'] != null && data['review'].toString().trim().isNotEmpty)
           padding: const EdgeInsets.only(top: 4),
           child: Text('"${data['review']}"', style: const TextStyle(color: Colors.white60, fontStyle: FontStyle.italic)
         ),
       ],
      ),
      trailing: const Icon(Icons.chevron_right, color: Colors.white54),
      onTap: () {
       Navigator.push(
        context,
        MaterialPageRoute(builder: (_) ⇒ EditGamePage(gameId: game.id, gameData: data)),
       );
      },
      contentPadding: const EdgeInsets.symmetric(horizontal: 16, vertical: 12),
    ),
   );
  },
 );
},
```

), ),

```
),
);
 Widget _buildListsView(BuildContext context, User? user) {
 final listsRef = FirebaseFirestore.instance
   .collection('users')
   .doc(user?.uid)
   .collection('lists')
   .orderBy('createdAt', descending: true);
 return Container(
  color: const Color(0xFF1E1E2C),
  padding: const EdgeInsets.all(16),
  child: Container(
   padding: const EdgeInsets.all(16),
   decoration: BoxDecoration(
    color: Colors.white.withOpacity(0.08),
    borderRadius: BorderRadius.circular(12),
    boxShadow: [BoxShadow(color: Colors.black26, blurRadius: 6)],
   ),
   child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      const Text(
       'My Lists',
       style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold, color: Colors.white),
      const SizedBox(height: 12),
      Expanded(
       child: StreamBuilder<QuerySnapshot>(
        stream: listsRef.snapshots(),
        builder: (context, snapshot) {
         if (snapshot.connectionState == ConnectionState.waiting) {
          return const Center(child: CircularProgressIndicator());
         if (!snapshot.hasData | snapshot.data!.docs.isEmpty) {
          return const Center(
            child: Text('You haven\'t created any lists yet.',
              style: TextStyle(color: Colors.white70)),
          );
         }
         final lists = snapshot.data!.docs;
          return ListView.separated(
          itemCount: lists.length,
           separatorBuilder: (_, _) ⇒ const Divider(indent: 72, endIndent: 16, thickness: 0.4, color: Colors.white24),
           itemBuilder: (context, index) {
            final list = lists[index];
            final data = list.data() as Map<String, dynamic>;
            return Dismissible(
             key: Key(list.id),
             direction: DismissDirection.endToStart,
             background: Container(
              color: Colors.red,
              alignment: Alignment.centerRight,
```

```
padding: const EdgeInsets.only(right: 20),
      child: const lcon(Icons.delete_forever, color: Colors.white, size: 32),
     ),
     confirmDismiss: (_) async {
      return await showDialog(
       context: context,
       builder: (context) ⇒ AlertDialog(
        title: const Text('Delete List?'),
        content: const Text('Are you sure you want to delete this list?'),
        actions: [
          TextButton(onPressed: () ⇒ Navigator.of(context).pop(false), child: const Text('Cancel')),
          TextButton(onPressed: () ⇒ Navigator.of(context).pop(true), child: const Text('Delete')),
        ],
       ),
      );
     },
     onDismissed: (_) async {
      await FirebaseFirestore.instance
         .collection('users')
        .doc(user!.uid)
        .collection('lists')
        .doc(list.id)
        .delete();
      ScaffoldMessenger.of(context).showSnackBar(
       const SnackBar(content: Text('List deleted')),
      );
     },
     child: ListTile(
      leading: const lcon(lcons.list_alt, color: Colors.deepPurpleAccent),
      title: Text(
       data['title'] ?? 'No Title',
       style: const TextStyle(
        color: Colors.white,
        fontWeight: FontWeight.w600,
       ),
      ),
      subtitle: data['description'] != null && data['description'].toString().trim().isNotEmpty
        ? Text(data['description'], style: const TextStyle(color: Colors.white70))
      trailing: const Icon(Icons.chevron_right, color: Colors.white54),
      onTap: () {
       Navigator.push(
        context,
        MaterialPageRoute(
          builder: (_) ⇒ ViewListPage(listId: list.id, listData: data),
        ),
       );
      },
      contentPadding: const EdgeInsets.symmetric(horizontal: 16, vertical: 12),
     ),
   );
  },
 );
},
```

), ), ],

```
);
}
Widget _buildProfileView(BuildContext context, User? user) {
 return FutureBuilder<DocumentSnapshot>(
  future: FirebaseFirestore.instance.collection('users').doc(user?.uid).get(),
  builder: (context, snapshot) {
   if (!snapshot.hasData) {
    return const Center(child: CircularProgressIndicator());
   }
   final data = snapshot.data!.data() as Map<String, dynamic>? ?? {};
   final gamesRef = FirebaseFirestore.instance
      .collection('users')
      .doc(user?.uid)
      .collection('games')
      .orderBy('createdAt', descending: true);
   final listsRef = FirebaseFirestore.instance
      .collection('users')
      .doc(user?.uid)
      .collection('lists')
      .orderBy('createdAt', descending: true);
   return Container(
     color: const Color(0xFF1E1E2C),
     child: Row(
      children: [
       // LEFT PANEL: Profile Info
       Container(
        width: 300,
        margin: const EdgeInsets.all(16),
        padding: const EdgeInsets.all(16),
        decoration: BoxDecoration(
         color: Colors.white.withOpacity(0.9),
         borderRadius: BorderRadius.circular(12),
        ),
        child: Column(
         children: [
           const CircleAvatar(radius: 50, backgroundColor: Colors.deepPurpleAccent),
           const SizedBox(height: 16),
           Text(data['name'] ?? 'No Name', style: const TextStyle(fontSize: 24, fontWeight: FontWeight.bold)),
           const SizedBox(height: 8),
           Text(user?.email ?? 'No email', style: const TextStyle(color: Colors.black54)),
           if ((data['bio'] ?? '').toString().isNotEmpty) ...[
            const SizedBox(height: 12),
            Text(data['bio'], textAlign: TextAlign.center),
           ],
           if ((data['location'] ?? '').toString().isNotEmpty) ...[
            const SizedBox(height: 12),
            Row(mainAxisAlignment: MainAxisAlignment.center, children: [
             const Icon(Icons.location_on, size: 18),
             const SizedBox(width: 4),
             Text(data['location']),
           ]),
           ],
           if ((data['age'] ?? 0) != 0) ...[
```

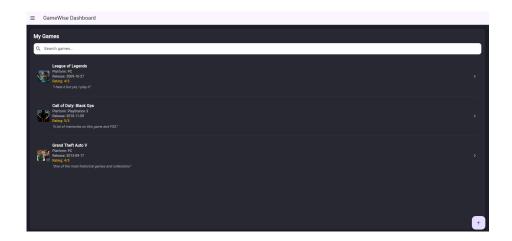
```
const SizedBox(height: 8),
    Row(mainAxisAlignment: MainAxisAlignment.center, children: [
     const Icon(Icons.cake, size: 18),
     const SizedBox(width: 4),
     Text('Age: ${data['age']}'),
    ]),
   ],
   const SizedBox(height: 16),
   ElevatedButton.icon(
    onPressed: () {
     Navigator.push(context, MaterialPageRoute(builder: (_) ⇒ const EditProfilePage()));
    },
    icon: const Icon(Icons.edit, color: Colors.white),
    label: const Text('Edit Profile', style: TextStyle(color: Colors.white)),
    style: ElevatedButton.styleFrom(
     backgroundColor: Color(0xFF2C5364), // same as the dark gradient tone
     minimumSize: const Size.fromHeight(48),
     shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(8)),
     elevation: 4,
    ),
   ),
  ],
 ),
),
// RIGHT PANEL: Recent games and lists with clearer sections
Expanded(
 child: Padding(
  padding: const EdgeInsets.symmetric(vertical: 16, horizontal: 8),
  child: Column(
   children: [
    // Recently Added Games Section
    Container(
     padding: const EdgeInsets.all(16),
     margin: const EdgeInsets.only(bottom: 16),
     decoration: BoxDecoration(
       color: Colors.white.withOpacity(0.08),
       borderRadius: BorderRadius.circular(12),
        BoxShadow(color: Colors.black26, blurRadius: 6, offset: Offset(0, 2)),
      ],
     ),
     child: Column(
       crossAxisAlignment: CrossAxisAlignment.start,
       children: [
        const Text('Recently Added Games',
          style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold, color: Colors.white)),
        const SizedBox(height: 12),
        SizedBox(
         height: 180,
         child: StreamBuilder<QuerySnapshot>(
          stream: gamesRef.limit(5).snapshots(),
          builder: (context, snapshot) {
            if (!snapshot.hasData) return const Center(child: CircularProgressIndicator());
            final docs = snapshot.data!.docs;
            if (docs.isEmpty) {
             return const Text('No recent games', style: TextStyle(color: Colors.white70));
            }
            return ListView.builder(
             itemCount: docs.length,
```

```
itemBuilder: (context, index) {
          final game = docs[index].data() as Map<String, dynamic>;
          return ListTile(
           dense: true,
           leading: game['coverUrl'] != null && game['coverUrl'] != "
             ? ClipRRect(
                borderRadius: BorderRadius.circular(6),
                child: Image.network(game['coverUrl'], width: 40, height: 40, fit: BoxFit.cover),
             : const lcon(lcons.videogame_asset, color: Colors.deepPurpleAccent),
           title: Text(game['title'] ?? 'No Title', style: const TextStyle(color: Colors.white)),
         );
        },
       );
      },
    ),
   ),
  ],
 ),
),
// Recently Created Lists Section
Container(
 padding: const EdgeInsets.all(16),
 decoration: BoxDecoration(
  color: Colors.white.withOpacity(0.08),
  borderRadius: BorderRadius.circular(12),
  boxShadow: [
   BoxShadow(color: Colors.black26, blurRadius: 6, offset: Offset(0, 2)),
  ],
 ),
 child: Column(
  crossAxisAlignment: CrossAxisAlignment.start,
  children: [
   const Text('Recently Created Lists',
      style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold, color: Colors.white)),
    const SizedBox(height: 12),
    SizedBox(
     height: 180,
     child: StreamBuilder<QuerySnapshot>(
      stream: listsRef.limit(5).snapshots(),
      builder: (context, snapshot) {
       if (!snapshot.hasData) return const Center(child: CircularProgressIndicator());
       final docs = snapshot.data!.docs;
       if (docs.isEmpty) {
        return const Text('No recent lists', style: TextStyle(color: Colors.white70));
       return ListView.builder(
        itemCount: docs.length,
        itemBuilder: (context, index) {
         final list = docs[index].data() as Map<String, dynamic>;
          return ListTile(
           dense: true,
           leading: const lcon(lcons.list_alt, color: Colors.deepPurpleAccent),
           title: Text(list['title'] ?? 'No Title', style: const TextStyle(color: Colors.white)),
           subtitle: list['description'] != null
             ? Text(list['description'], style: const TextStyle(color: Colors.white70))
             : null,
         );
```

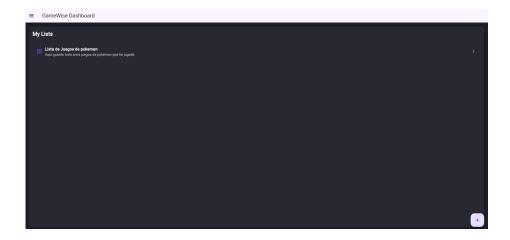
```
);
);
),
),
),
1,
),
),
),
),
),
),
),
);
),
);
);
);
}
```



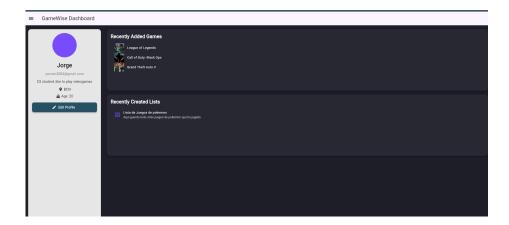
#### My Games:



#### My lists



My profile:



Now, the behaviour of the games. A game can be on my games but not on any list. When you delete a game from my games it is deleted from all lists, but when deleted from a list not from my games.

# add\_game\_page.dart

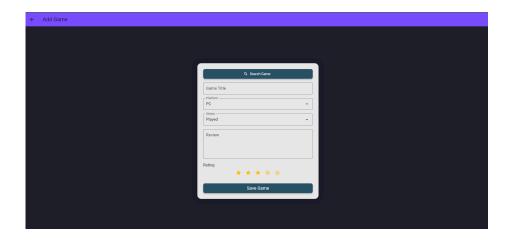
```
import 'package:flutter/material.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'search_game_page.dart';
Future<void> saveGame({
 required String title,
 required String platform,
 required String status,
 required String review,
 required int rating,
 String? coverUrI,
 String? releaseDate,
 List<String>? genres,
 String? listId,
}) async {
 final user = FirebaseAuth.instance.currentUser;
 if (user == null) return;
 final baseRef = FirebaseFirestore.instance.collection('users').doc(user.uid);
```

```
final gameId = baseRef.collection('games').doc().id;
 final gameData = {
  'id': gameld,
  'title': title,
  'platform': platform,
  'status': status,
  'review': review,
  'rating': rating,
  'coverUrl': coverUrl,
  'releaseDate': releaseDate,
  'genres': genres,
  'createdAt': FieldValue.serverTimestamp(),
 };
 await baseRef.collection('games').doc(gameId).set(gameData);
 if (listId != null) {
  await baseRef
     .collection('lists')
    .doc(listId)
    .collection('games')
    .doc(gameId)
     .set(gameData);
}
}
class AddGamePage extends StatefulWidget {
 final Map<String, dynamic>? initialData;
 final String? listId;
 const AddGamePage({super.key, this.initialData, this.listId});
 @override
 State<AddGamePage> createState() ⇒ _AddGamePageState();
class _AddGamePageState extends State<AddGamePage> {
 final _formKey = GlobalKey<FormState>();
 final _titleController = TextEditingController();
 final _reviewController = TextEditingController();
 String _selectedPlatform = 'PC';
 String _selectedStatus = 'Played';
 int _rating = 3;
 String? _coverUrI;
 String? _releaseDate;
 List<String> _genres = [];
 @override
 void initState() {
  super.initState();
  if (widget.initialData != null) {
   _titleController.text = widget.initialData!['title'] ?? '';
   final platformsList = widget.initialData!['platforms'] as List<dynamic>? ?? [];
   if (platformsList.isNotEmpty) {
    final platformName = platformsList[0]['platform']['name'] ?? 'PC';
     _selectedPlatform = platformName;
   }
```

```
_coverUrl = widget.initialData!['background_image'];
  _releaseDate = widget.initialData!['released'];
  final genresList = widget.initialData!['genres'] as List<dynamic>? ?? [];
  \_genres = genresList.map((g) \Rightarrow g['name'].toString()).toList();
}
Future<void>_openSearchPage() async {
 final selectedGame = await Navigator.push(
  context.
  MaterialPageRoute(builder: (context) ⇒ const SearchGamePage()),
 );
 if (selectedGame != null) {
  setState(() {
   _titleController.text = selectedGame['title'] ?? ";
   final platformsList = selectedGame['platforms'] as List<dynamic>? ?? [];
   if (platformsList.isNotEmpty) {
    final platformName = platformsList[0]['platform']['name'] ?? 'PC';
    _selectedPlatform = platformName;
   _coverUrl = selectedGame['background_image'] ?? ";
    _releaseDate = selectedGame['released'];
   final genresList = selectedGame['genres'] as List<dynamic>? ?? [];
   _genres = genresList.map((g) \Rightarrow g['name'].toString()).toList();
  });
 }
}
void _save() async {
 if (!_formKey.currentState!.validate()) return;
 await saveGame(
  title: _titleController.text.trim(),
  platform: _selectedPlatform,
  status: _selectedStatus,
  review: _reviewController.text.trim(),
  rating: _rating,
  coverUrl: _coverUrl ?? ",
  releaseDate: _releaseDate ?? ",
  genres: _genres,
  listld: widget.listld,
 );
 ScaffoldMessenger.of(context).showSnackBar(
  const SnackBar(content: Text('Game saved successfully!')),
 );
 Navigator.pop(context);
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   title: const Text('Add Game'),
   backgroundColor: Colors.deepPurpleAccent,
  ),
  body: Container(
```

```
color: const Color(0xFF1E1E2C),
child: Center(
 child: SingleChildScrollView(
  padding: const EdgeInsets.all(24.0),
  child: Container(
   constraints: const BoxConstraints(maxWidth: 500),
   padding: const EdgeInsets.all(24.0),
   decoration: BoxDecoration(
    color: Colors.white.withOpacity(0.9),
    borderRadius: BorderRadius.circular(16),
    boxShadow: [
     BoxShadow(
      color: Colors.black.withOpacity(0.2),
      blurRadius: 20,
      spreadRadius: 5,
     ),
    ],
   ),
   child: Form(
    key: _formKey,
    child: Column(
     crossAxisAlignment: CrossAxisAlignment.stretch,
     children: [
      ElevatedButton.icon(
        onPressed: _openSearchPage,
        icon: const lcon(lcons.search, color: Colors.white),
        label: const Text('Search Game', style: TextStyle(color: Colors.white)),
        style: ElevatedButton.styleFrom(
         backgroundColor: const Color(0xFF2C5364),
         minimumSize: const Size.fromHeight(48),
         shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(8)),
         elevation: 4,
        ),
      ),
      const SizedBox(height: 16),
      TextFormField(
        controller: _titleController,
        decoration: const InputDecoration(
         labelText: 'Game Title'.
         border: OutlineInputBorder(),
        ),
        validator: (value) ⇒ value == null | value.isEmpty ? 'Please enter the game title' : null,
      ),
      const SizedBox(height: 16),
      DropdownButtonFormField<String>(
        value: _selectedPlatform,
        items: [
         'PC', 'PlayStation 5', 'PlayStation 4', 'PlayStation 3',
         'Xbox Series S/X', 'Xbox One', 'Xbox 360',
         'Nintendo Switch', 'Nintendo DS', 'Nintendo 3DS',
         'Game Boy', 'Game Boy Advance', 'Game Boy Color', 'Mobile'
        ].map((platform) \( \neq \) DropdownMenuItem(value: platform, child: Text(platform))).toList(),
        onChanged: (value) ⇒ setState(() ⇒ _selectedPlatform = value!),
        decoration: const InputDecoration(
         labelText: 'Platform',
         border: OutlineInputBorder(),
        ),
      ),
      const SizedBox(height: 16),
```

```
DropdownButtonFormField<String>(
         value: _selectedStatus,
         items: ['Played', 'Playing', 'Wishlist'].map((status) ⇒ DropdownMenuItem(value: status, child: Text(status))).
         onChanged: (value) ⇒ setState(() ⇒ _selectedStatus = value!),
         decoration: const InputDecoration(
           labelText: 'Status',
           border: OutlineInputBorder(),
         ),
        ),
        const SizedBox(height: 16),
        TextFormField(
         controller: _reviewController,
         maxLines: 4,
         decoration: const InputDecoration(
           labelText: 'Review',
           border: OutlineInputBorder(),
           alignLabelWithHint: true,
         ),
        ),
        const SizedBox(height: 16),
        const Text('Rating', style: TextStyle(fontSize: 16)),
        Row(
         mainAxisAlignment: MainAxisAlignment.center,
         children: List.generate(5, (index) {
           return IconButton(
            onPressed: () \Rightarrow setState(() \Rightarrow _rating = index + 1),
            icon: Icon(
             _rating > index ? lcons.star : lcons.star_border,
             color: Colors.amber,
            ),
           );
         }),
        ),
        const SizedBox(height: 24),
        ElevatedButton(
         onPressed: _save,
         style: ElevatedButton.styleFrom(
           backgroundColor: const Color(0xFF2C5364),
           foregroundColor: Colors.white,
           minimumSize: const Size.fromHeight(48),
           shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(8)),
           elevation: 4,
         ),
         child: const Text('Save Game', style: TextStyle(fontSize: 18)),
        ),
       ],
      ),
   ),
  ),
 ),
),
```

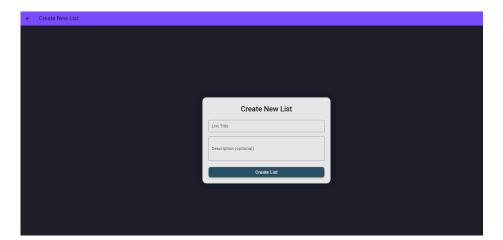


### create\_list\_page.dart

```
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
class CreateListPage extends StatefulWidget {
 const CreateListPage({super.key});
 @override
 State<CreateListPage> createState() ⇒ _CreateListPageState();
class _CreateListPageState extends State<CreateListPage> {
 final _formKey = GlobalKey<FormState>();
 final _titleController = TextEditingController();
 final _descriptionController = TextEditingController();
 void _saveList() async {
  if (!_formKey.currentState!.validate()) return;
  final user = FirebaseAuth.instance.currentUser;
  if (user == null) return;
  final listsRef = FirebaseFirestore.instance
    .collection('users')
    .doc(user.uid)
    .collection('lists');
  await listsRef.add({
   'title': _titleController.text.trim(),
   'description': _descriptionController.text.trim(),
   'createdAt': FieldValue.serverTimestamp(),
  });
  ScaffoldMessenger.of(context).showSnackBar(
   const SnackBar(content: Text('List created successfully!')),
  );
  Navigator.pop(context);
 }
 @override
 Widget build(BuildContext context) {
```

```
return Scaffold(
 appBar: AppBar(
  title: const Text('Create New List'),
  backgroundColor: Colors.deepPurpleAccent,
 body: Container(
  color: const Color(0xFF1E1E2C),
  child: Center(
   child: SingleChildScrollView(
    padding: const EdgeInsets.all(24.0),
    child: Container(
      constraints: const BoxConstraints(maxWidth: 500),
      padding: const EdgeInsets.all(24.0),
      decoration: BoxDecoration(
       color: Colors.white.withOpacity(0.9),
       borderRadius: BorderRadius.circular(16),
       boxShadow: [
        BoxShadow(
         color: Colors.black.withOpacity(0.2),
         blurRadius: 20,
         spreadRadius: 5,
        ),
       ],
      ),
      child: Form(
       key: _formKey,
       child: Column(
        crossAxisAlignment: CrossAxisAlignment.stretch,
        children: [
         const Text(
          'Create New List',
          style: TextStyle(
           fontSize: 28,
            fontWeight: FontWeight.bold,
            color: Colors.black87,
          textAlign: TextAlign.center,
         ),
         const SizedBox(height: 24),
         TextFormField(
          controller: _titleController,
          decoration: const InputDecoration(
            labelText: 'List Title',
            border: OutlineInputBorder(),
          ),
          validator: (value) {
            if (value == null | value.isEmpty) {
             return 'Please enter a list title';
            return null;
          },
         ),
         const SizedBox(height: 16),
         TextFormField(
          controller: _descriptionController,
          maxLines: 3,
          decoration: const InputDecoration(
            labelText: 'Description (optional)',
            border: OutlineInputBorder(),
```

```
),
         const SizedBox(height: 24),
         ElevatedButton(
          onPressed: _saveList,
          style: ElevatedButton.styleFrom(
           backgroundColor: const Color(0xFF2C5364),
           foregroundColor: Colors.white,
           minimumSize: const Size.fromHeight(48),
           shape: RoundedRectangleBorder(
             borderRadius: BorderRadius.circular(8),
           ),
           elevation: 4,
          ),
          child: const Text('Create List', style: TextStyle(fontSize: 18)),
         ),
        ],
      ),
    ),
   ),
  ),
 ),
);
```



# edit\_game\_page.dart

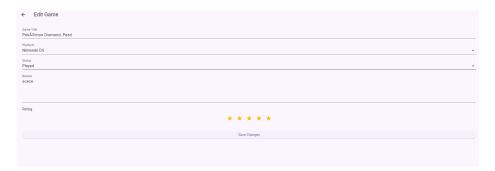
```
// Flutter UI library
import 'package:flutter/material.dart';
// Firebase Authentication to access the current user
import 'package:firebase_auth/firebase_auth.dart';
// Firebase Firestore to save lists
import 'package:cloud_firestore/cloud_firestore.dart';

/// Page that allows the user to create a new list (for organizing games).
class CreateListPage extends StatefulWidget {
   const CreateListPage({super.key});

@override
State<CreateListPage> createState() ⇒ _CreateListPageState();
```

```
class _CreateListPageState extends State<CreateListPage> {
// Form key to validate the form fields
final_formKey = GlobalKey<FormState>();
 // Controllers to capture user input
 final_titleController = TextEditingController();
 final _descriptionController = TextEditingController();
 /// Saves the new list to Firestore under the current user's document.
 void _saveList() async {
  if (!_formKey.currentState!.validate()) return; // Validate the form first
  final user = FirebaseAuth.instance.currentUser;
  if (user == null) return; // Ensure user is authenticated
  final listsRef = FirebaseFirestore.instance
    .collection('users')
    .doc(user.uid)
    .collection('lists');
  await listsRef.add({
   'title': _titleController.text.trim(),
   'description': _descriptionController.text.trim(),
   'createdAt': FieldValue.serverTimestamp(), // Timestamp for sorting
  });
  ScaffoldMessenger.of(context).showSnackBar(
   const SnackBar(content: Text('List created successfully!')), // Show success message
  );
  Navigator.pop(context); // Return to the previous page
}
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: const Text('Create New List'), // Page title
   ),
   body: Padding(
    padding: const EdgeInsets.all(24.0),
    child: Form(
     key: _formKey,
     child: Column(
       children: [
        // Title input field
        TextFormField(
         controller: _titleController,
         decoration: const InputDecoration(labelText: 'List Title'),
         validator: (value) {
          if (value == null | value.isEmpty) {
            return 'Please enter a list title'; // Validate title is not empty
          }
          return null;
         },
        ),
        const SizedBox(height: 16),
```

```
// Description input field (optional)
     TextFormField(
      controller: _descriptionController,
      maxLines: 3,
      decoration: const InputDecoration(labelText: 'Description (optional)'),
     const SizedBox(height: 32),
     // Save button
     ElevatedButton(
      onPressed: _saveList,
      style: ElevatedButton.styleFrom(
       backgroundColor: Colors.deepPurpleAccent,
       minimumSize: const Size.fromHeight(50),
      ),
      child: const Text('Create List'),
    ),
   ],
  ),
 ),
),
```



# edit\_profile\_page.dart

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

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

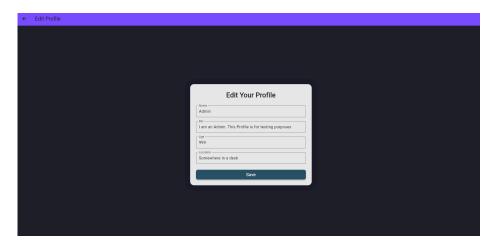
    @override
    State<EditProfilePage> createState() ⇒ _EditProfilePageState();
}

class _EditProfilePageState extends State<EditProfilePage> {
    final _nameController = TextEditingController();
    final _bioController = TextEditingController();
    final _ageController = TextEditingController();
    final _locationController = TextEditingController();
    @override
    void initState() {
```

```
super.initState();
 _loadProfile();
Future<void>_loadProfile() async {
 final user = FirebaseAuth.instance.currentUser;
 if (user == null) return;
 final doc = await FirebaseFirestore.instance.collection('users').doc(user.uid).get();
 if (doc.exists) {
  final data = doc.data()!;
  _nameController.text = data['name'] ?? '';
  _bioController.text = data['bio'] ?? ";
  _ageController.text = (data['age'] ?? '').toString();
  _locationController.text = data['location'] ?? ";
 }
}
Future<void> _saveProfile() async {
 final user = FirebaseAuth.instance.currentUser;
 if (user == null) return;
 final data = {
  'name': _nameController.text.trim(),
  'bio': _bioController.text.trim(),
  'age': int.tryParse(_ageController.text.trim()) ?? 0,
  'location': _locationController.text.trim(),
 };
 await FirebaseFirestore.instance
   .collection('users')
   .doc(user.uid)
   .set(data, SetOptions(merge: true));
 if (!mounted) return;
 ScaffoldMessenger.of(context).showSnackBar(
  const SnackBar(content: Text('Profile updated successfully!')),
 );
 Navigator.pop(context);
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   title: const Text('Edit Profile'),
   backgroundColor: Colors.deepPurpleAccent,
  body: Container(
   color: const Color(0xFF1E1E2C),
   child: Center(
     child: SingleChildScrollView(
      padding: const EdgeInsets.all(24.0),
      child: Container(
       constraints: const BoxConstraints(maxWidth: 500),
       padding: const EdgeInsets.all(24.0),
```

```
decoration: BoxDecoration(
 color: Colors.white.withOpacity(0.9),
 borderRadius: BorderRadius.circular(16),
 boxShadow: [
  BoxShadow(
   color: Colors.black.withOpacity(0.2),
   blurRadius: 20,
   spreadRadius: 5,
  ),
],
),
child: Column(
 crossAxisAlignment: CrossAxisAlignment.stretch,
 children: [
  const Text(
   'Edit Your Profile',
   style: TextStyle(
    fontSize: 28,
    fontWeight: FontWeight.bold,
    color: Colors.black87,
   ),
   textAlign: TextAlign.center,
  ),
  const SizedBox(height: 24),
  TextField(
   controller: _nameController,
   decoration: const InputDecoration(
    labelText: 'Name',
    border: OutlineInputBorder(),
   ),
  ),
  const SizedBox(height: 16),
  TextField(
   controller: _bioController,
   decoration: const InputDecoration(
    labelText: 'Bio',
    border: OutlineInputBorder(),
   ),
  ),
  const SizedBox(height: 16),
  TextField(
   controller: _ageController,
   keyboardType: TextInputType.number,
   decoration: const InputDecoration(
    labelText: 'Age',
    border: OutlineInputBorder(),
   ),
  ),
  const SizedBox(height: 16),
  TextField(
   controller: _locationController,
   decoration: const InputDecoration(
    labelText: 'Location',
    border: OutlineInputBorder(),
   ),
  ),
  const SizedBox(height: 24),
  ElevatedButton(
   onPressed: _saveProfile,
```

```
style: ElevatedButton.styleFrom(
    backgroundColor: const Color(0xFF2C5364),
    foregroundColor: Colors.white,
    minimumSize: const Size.fromHeight(48),
    shape: RoundedRectangleBorder(
    borderRadius: BorderRadius.circular(8),
    ),
    elevation: 4,
    ),
    child: const Text('Save', style: TextStyle(fontSize: 18)),
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};
}
```



## search\_game\_page.dart

```
import 'dart:async';
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:convert';

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

@override
    State<SearchGamePage> createState() ⇒ _SearchGamePageState();
}

class _SearchGamePageState extends State<SearchGamePage> {
    final TextEditingController _controller = TextEditingController();
    Timer? _debounce;
    List<dynamic> _results = [];

void _searchGames(String query) async {
    if (query.isEmpty) {
```

```
setState(() \Rightarrow _results = []);
  return;
 }
 final url = Uri.parse('https://api.rawg.io/api/games?key=6469bcadbd654cd790bf47c07943e8ab&search=$query');
 final response = await http.get(url);
 if (response.statusCode == 200) {
  final data = json.decode(response.body);
  setState(() {
    _results = data['results'];
  });
 } else {
  setState(() \Rightarrow _results = []);
 }
}
void _onSearchChanged(String query) {
 if (_debounce?.isActive ?? false) _debounce!.cancel();
 _debounce = Timer(const Duration(milliseconds: 500), () {
  _searchGames(query.trim());
 });
}
@override
void dispose() {
 _debounce?.cancel();
 _controller.dispose();
 super.dispose();
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  backgroundColor: const Color(0xFF1E1E2C),
  appBar: AppBar(
   title: const Text('Search Game'),
   backgroundColor: Colors.deepPurpleAccent,
  ),
  body: Padding(
   padding: const EdgeInsets.all(16.0),
   child: Column(
    children: [
      TextField(
       controller: _controller,
       onChanged: _onSearchChanged,
       onSubmitted: _searchGames,
       decoration: InputDecoration(
        hintText: 'Search for a game...',
        filled: true,
        fillColor: Colors.white,
        prefixIcon: const Icon(Icons.search),
        border: OutlineInputBorder(borderRadius: BorderRadius.circular(12)),
       ),
      ),
      const SizedBox(height: 16),
      Expanded(
       child: _results.isEmpty
         ? const Center(child: Text('No results', style: TextStyle(color: Colors.white70)))
```

```
: ListView.builder(
             itemCount: _results.length,
             itemBuilder: (context, index) {
              final game = _results[index];
              return Card(
               color: Colors.white.withOpacity(0.08),
               shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(12)),
               margin: const EdgeInsets.symmetric(vertical: 8),
               child: ListTile(
                leading: game['background_image'] != null
                   ? ClipRRect(
                     borderRadius: BorderRadius.circular(6),
                     child: Image.network(
                      game['background_image'],
                      width: 50,
                      height: 50,
                      fit: BoxFit.cover,
                     ),
                    )
                   : const lcon(lcons.videogame_asset, color: Colors.deepPurpleAccent),
                title: Text(game['name'], style: const TextStyle(color: Colors.white)),
                subtitle: game['released'] != null
                   ? Text('Released: ${game['released']}', style: const TextStyle(color: Colors.white70))
                   : null,
                onTap: () ⇒ Navigator.pop(context, {
                  'title': game['name'],
                  'platforms': game['platforms'],
                  'background_image': game['background_image'],
                  'released': game['released'],
                  'genres': game['genres'],
                }),
               ),
             );
            },
           ),
      ),
     ],
    ),
   ),
  );
}
}
```



### firebase\_options.dart

```
// File generated by FlutterFire CLI.
// ignore_for_file: type=lint
// Import necessary classes
import 'package:firebase_core/firebase_core.dart' show FirebaseOptions;
import 'package:flutter/foundation.dart' show defaultTargetPlatform, klsWeb, TargetPlatform;
/// This class provides Firebase configuration options for different platforms (Web, Android, iOS, macOS, Windows).
/// It's automatically generated by FlutterFire CLI, and is used during Firebase.initializeApp().
class DefaultFirebaseOptions {
 /// Returns the correct FirebaseOptions based on the current platform.
 static FirebaseOptions get currentPlatform {
  if (klsWeb) {
   // If the app is running on the web
   return web;
  // Determine platform based on defaultTargetPlatform
  switch (defaultTargetPlatform) {
   case TargetPlatform.android:
    return android;
   case TargetPlatform.iOS:
    return ios;
   case TargetPlatform.macOS:
    return macos;
   case TargetPlatform.windows:
    return windows;
   case TargetPlatform.linux:
    // Linux is not configured; throw an error
    throw UnsupportedError(
     'DefaultFirebaseOptions have not been configured for linux - '
     'you can reconfigure this by running the FlutterFire CLI again.',
    );
   default:
    // If the platform is unknown, throw an error
    throw UnsupportedError(
     'DefaultFirebaseOptions are not supported for this platform.',
    );
 }
}
 /// Configuration for Web
 static const FirebaseOptions web = FirebaseOptions(
  apiKey: 'AlzaSyB8CJtbmr7Ezt1l13PtPbj5S_pl3tjNDIY',
  appld: '1:602783046019:web:752cdc2b993126c9ae3eb6',
  messagingSenderld: '602783046019',
  projectld: 'gamewise-6d228',
  authDomain: 'gamewise-6d228.firebaseapp.com',
  storageBucket: 'gamewise-6d228.firebasestorage.app',
 );
 /// Configuration for Android
 static const FirebaseOptions android = FirebaseOptions(
  apiKey: 'AlzaSyCEjcrF1ZoMYgsGw2ObJA84Orht5ETGpe0',
  appld: '1:602783046019:android:a643747cf18db284ae3eb6',
  messagingSenderld: '602783046019',
  projectId: 'gamewise-6d228',
```

```
storageBucket: 'gamewise-6d228.firebasestorage.app',
);
 /// Configuration for iOS
 static const FirebaseOptions ios = FirebaseOptions(
  apiKey: 'AlzaSyC73TOxhRwHjlwZEL-SL9H79DaEUpbwh4A',
  appld: '1:602783046019:ios:416b50979dad9fa5ae3eb6',
  messagingSenderId: '602783046019',
  projectId: 'gamewise-6d228',
  storageBucket: 'gamewise-6d228.firebasestorage.app',
  iosClientId: '602783046019-vkdgoem30bgnqvgkc5c3pjtvm53kadru.apps.googleusercontent.com',
  iosBundleld: 'com.example.gamewiseWeb',
);
 /// Configuration for macOS
 static const FirebaseOptions macos = FirebaseOptions(
  apiKey: 'AlzaSyC73TOxhRwHjlwZEL-SL9H79DaEUpbwh4A',
  appld: '1:602783046019:ios:416b50979dad9fa5ae3eb6',
  messagingSenderld: '602783046019',
  projectId: 'gamewise-6d228',
  storageBucket: 'gamewise-6d228.firebasestorage.app',
  iosClientld: '602783046019-vkdgoem30bgnqvgkc5c3pjtvm53kadru.apps.googleusercontent.com',
  iosBundleld: 'com.example.gamewiseWeb',
);
 /// Configuration for Windows
 static const FirebaseOptions windows = FirebaseOptions(
  apiKey: 'AlzaSyB8CJtbmr7Ezt1l13PtPbj5S_pl3tjNDIY',
  appld: '1:602783046019:web:bc1dd29aae974abdae3eb6',
  messagingSenderld: '602783046019',
  projectId: 'gamewise-6d228',
  authDomain: 'gamewise-6d228.firebaseapp.com',
  storageBucket: 'gamewise-6d228.firebasestorage.app',
);
}
```