main.dart

```dart
import 'package:flutter/material.dart'; import 'screens/splash_page.dart';
import 'screens/login_page.dart'; import 'screens/register_page.dart';
import 'screens/chat_page.dart'; import 'screens/profile_page.dart';
import 'screens/settings_page.dart'; void main() { runApp(MyApp()); }
class MyApp extends StatelessWidget { @override Widget build(BuildContext
context) { return MaterialApp( title: 'Realtime Chat App',
debugShowCheckedModeBanner: false, theme: ThemeData(primarySwatch:
Colors.blue), initialRoute: '/', routes: { '/': (context) => SplashPage(),
'/login': (context) => LoginPage(), '/register': (context) =>
RegisterPage(), '/chat': (context) => ChatPage(), '/profile': (context) =>
ProfilePage(), '/settings': (context) => SettingsPage(), }, ); } }
```

splash_page.dart

```dart
import 'package:flutter/material.dart'; import 'dart:async'; class
SplashPage extends StatefulWidget { @override State<SplashPage>
createState() => _SplashPageState(); } class _SplashPageState extends
State<SplashPage> { @override void initState() { super.initState();
Timer(Duration(seconds: 2), () { Navigator.pushReplacementNamed(context,
'/login'); }); } @override Widget build(BuildContext context) { return
Scaffold( body: Center(child: Text('Welcome to Realtime Chat', style:
TextStyle(fontSize: 24))), ); } }
```

login_page.dart

```dart
import 'package:flutter/material.dart'; import 'register_page.dart';
import 'package:http/http.dart' as http; import 'dart:convert'; class
LoginPage extends StatefulWidget { @override State<LoginPage>
```

```
createState() => _LoginPageState(); } class _LoginPageState extends
State<LoginPage> { final usernameController = TextEditingController();
final passwordController = TextEditingController(); String message = '';
void login() async { final res = await http.post(
Uri.parse('http://YOUR_SERVER_IP:3000/api/auth/login'), headers:
{'Content-Type': 'application/json'}, body: jsonEncode({ 'username':
usernameController.text.trim(), 'password': passwordController.text }), );
final data = jsonDecode(res.body); if (res.statusCode == 200) { // Save
token locally if needed Navigator.pushReplacementNamed(context, '/chat',
arguments: data['token']); } else { setState(() => message = data['msg']
?? 'Login failed'); } } @override Widget build(BuildContext context) {
return Scaffold( body: Center( child: Padding( padding:
EdgeInsets.all(24), child: Column( mainAxisSize: MainAxisSize.min,
children: [ TextField(controller: usernameController, decoration:
InputDecoration(labelText: 'Username')), TextField(controller:
passwordController, decoration: InputDecoration(labelText: 'Password'),
obscureText: true), SizedBox(height: 20), ElevatedButton(onPressed: login,
child: Text('Login')), TextButton( onPressed: () =>
Navigator.pushNamed(context, '/register'), child: Text('Register New
Account')), SizedBox(height: 10), Text(message, style: TextStyle(color:
Colors.red)), ], ), ), ), ); } }
register_page.dart
```

```
import 'package:flutter/material.dart'; import 'package:http/http.dart' as
http; import 'dart:convert'; class RegisterPage extends StatefulWidget {
@override State<RegisterPage> createState() => _RegisterPageState(); }
class _RegisterPageState extends State<RegisterPage> { final
usernameController = TextEditingController(); final passwordController =
```

```dart
TextEditingController(); String message = ''; void register() async {
final res = await http.post(
Uri.parse('http://YOUR_SERVER_IP:3000/api/auth/register'), headers:
{'Content-Type': 'application/json'}, body: jsonEncode({ 'username':
usernameController.text.trim(), 'password': passwordController.text }), );
final data = jsonDecode(res.body); if (res.statusCode == 200) {
Navigator.pushReplacementNamed(context, '/chat', arguments:
data['token']); } else { setState(() => message = data['msg'] ?? 'Register
failed'); } } @override Widget build(BuildContext context) { return
Scaffold( body: Center( child: Padding( padding: EdgeInsets.all(24),
child: Column( mainAxisSize: MainAxisSize.min, children: [
TextField(controller: usernameController, decoration:
InputDecoration(labelText: 'Username')), TextField(controller:
passwordController, decoration: InputDecoration(labelText: 'Password'),
obscureText: true), SizedBox(height: 20), ElevatedButton(onPressed:
register, child: Text('Register')), SizedBox(height: 10), Text(message,
style: TextStyle(color: Colors.red)), ], ), ), ), ); } }
```

chat_page.dart (Socket.io integration)

```dart
import 'package:flutter/material.dart'; import
'package:socket_io_client/socket_io_client.dart' as IO; class ChatPage
extends StatefulWidget { final String? token; ChatPage({this.token});
@override State<ChatPage> createState() => _ChatPageState(); } class
_ChatPageState extends State<ChatPage> { late IO.Socket socket; final
messageController = TextEditingController(); List<Map<String, String>>
messages = []; @override void initState() { super.initState();
connectSocket(); } void connectSocket() { socket =
IO.io('http://YOUR_SERVER_IP:3000', IO.OptionBuilder()
```

```
.setTransports(['websocket']) .disableAutoConnect() .build());
socket.connect(); socket.onConnect((_) { print('connected');
socket.emit('join', {'token': widget.token, 'room': 'global'}); });
socket.on('chat_message', (data) { setState(() { messages.add({'sender':
data['sender'], 'text': data['text']}); }); }); socket.on('history',
(data) { setState(() { messages = List<Map<String,
String>>.from(data.map((m) => {'sender': m['sender'], 'text': m['text'] }
)); }); }); } void sendMessage() { if
(messageController.text.trim().isEmpty) return;
socket.emit('chat_message', {'text': messageController.text.trim()});
messageController.clear(); } @override Widget build(BuildContext context)
{ return Scaffold( appBar: AppBar(title: Text('Global Chat')), body:
Column( children: [ Expanded( child: ListView.builder( itemCount:
messages.length, itemBuilder: (_, index) { final m = messages[index];
return ListTile( title: Text(m['sender']!), subtitle: Text(m['text']!), );
}, ), ), Row( children: [ Expanded(child: TextField(controller:
messageController, decoration: InputDecoration(hintText: 'Type a
message...'))), IconButton(onPressed: sendMessage, icon: Icon(Icons.send))
], ) ], ), ); } }
```
 profile_page.dart & settings_page.dart (Optional placeholders)

```
import 'package:flutter/material.dart'; class ProfilePage extends
StatelessWidget { @override Widget build(BuildContext context) { return
Scaffold( appBar: AppBar(title: Text('Profile')), body: Center(child:
Text('User Profile Page')), ); } } class SettingsPage extends
StatelessWidget { @override Widget build(BuildContext context) { return
```

```
Scaffold( appBar: AppBar(title: Text('Settings')), body: Center(child:
Text('Settings Page')), ); } }
```