

```

//Create SignInScreen Widget
import 'package:flutter/material.dart'

class SignInScreen extends StatefulWidget
  @override
  _SignInScreenState createState => _SignInScreenState
}

class _SignInScreenState extends State<SignInScreen>
  final _formKey = GlobalKey<FormState>();
  final TextEditingController _emailController = TextEditingController();
  final TextEditingController _passwordController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('Sign In')),
      body: Padding(
        padding: const EdgeInsets.all(16.0),
        child: Form(
          key: _formKey,
          child: Column(
            children: [
              TextFormField(
                controller: _emailController,
                decoration: InputDecoration(labelText: 'Email'),
                validator: (value) {
                  if (value == null || value.isEmpty) {
                    return 'Please enter your email'
                  }
                  return null;
                },
              ),
              TextFormField(
                controller: _passwordController,
                decoration: InputDecoration(labelText: 'Password'),
                obscureText: true,
                validator: (value) {
                  if (value == null || value.isEmpty) {
                    return 'Please enter your password'
                  }
                  return null;
                },
              ),
              SizedBox(height: 20),
            ],
          ),
        ),
      ),
    );
  }
}

```

```

ElevatedButton(
  onPressed: () {
    if (_formKey.currentState!.validate()) {
      // TODO: Implement sign-in logic
    }
  },
  child: Text('Sign In'),
),
],
),
),
),
);
}
}

```

//Create Authentication Service

```
import 'dart:convert'
```

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

```
class AuthService
```

```
Future<bool> signIn(String email, String password) async {
```

```
  final url = 'https://dev.whop.com/oauth/token'
```

```
  final response = await http.post(
```

```
    Uri.parse(url),
```

```
    headers: {'Content-Type': 'application/json'}
```

```
    body: jsonEncode({
```

```
      'email': email,
```

```
      'password': password,
```

```
    })),
```

```
  );
```

```
  if (response.statusCode == 200) {
```

```
    // Assuming successful authentication returns a token
```

```
    final data = jsonDecode(response.body);
```

```
    // Store the token securely
```

```
    // e.g., using SharedPreferences or secure storage
```

```
    return true;
```

```
  } else {
```

```
    // Handle error response
```

```
    return false;
```

```
  }
```

```
}
```

```
}
```

```
//Integrate Authentication with SignInScreen
```

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

```
import 'auth_service.dart'
```

```
import 'home_screen.dart'
```

```
class SignInScreen extends StatefulWidget
```

```
  @override
```

```
  _SignInScreenState createState => _SignInScreenState  
}
```

```
class _SignInScreenState extends State<SignInScreen>
```

```
  final _formKey = GlobalKey<FormState>();
```

```
  final TextEditingController _emailController = TextEditingController
```

```
  final TextEditingController _passwordController = TextEditingController
```

```
  final AuthService _authService = AuthService();
```

```
  @override
```

```
  Widget build(BuildContext context)
```

```
  {  
    return Scaffold
```

```
      appBar: AppBar(title: Text('Sign In')),
```

```
      body: Padding(
```

```
        padding: const EdgeInsets.all(16.0),
```

```
        child: Form(
```

```
          key: _formKey,
```

```
          child: Column(
```

```
            children: [
```

```
              TextFormField(
```

```
                controller: _emailController,
```

```
                decoration: InputDecoration(labelText: 'Email'),
```

```
                validator: (value) {
```

```
                  if (value == null || value.isEmpty) {
```

```
                    return 'Please enter your email'
```

```
                  }
```

```
                  return null;
```

```
                },
```

```
            ),
```

```
              TextFormField(
```

```
                controller: _passwordController,
```

```
                decoration: InputDecoration(labelText: 'Password'),
```

```
                obscureText: true,
```

```
                validator: (value) {
```

```

        if (value == null || value.isEmpty) {
          return 'Please enter your password'
        }
        return null;
      },
    ),
    SizedBox(height: 20),
    ElevatedButton(
      onPressed: () async {
        if (_formKey.currentState!.validate()) {
          bool success = await _authService.signIn(
            _emailController.text,
            _passwordController.text,
          );
          if (success) {
            Navigator.pushReplacement(
              context,
              MaterialPageRoute(
                builder: (context) => HomeScreen(),
              ),
            );
          } else {
            ScaffoldMessenger.of(context).showSnackBar(
              SnackBar(content: Text('Authentication failed')),
            );
          }
        }
      },
      child: Text('Sign In'),
    ),
  ],
),
),
),
);
}
}

```

//Create HomeScreen Widget

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

```
class HomeScreen extends StatelessWidget
  @override
```

```

Widget build(BuildContext)
  return Scaffold
    appBar: AppBar(title: Text('Home')),
    body: Center(
      child: Text(
        'Authentication Successful'
        style: TextStyle(fontSize: 24),
      ),
    ),
  );
}

```

//Update 'main.dart' to Set Initial Route:

```

import 'package:flutter/material.dart'
import 'sign_in_screen.dart'
import 'home_screen.dart'

```

```

void main() {
  runApp MyApp
}

```

```

class MyApp extends StatelessWidget
  @override
  Widget build(BuildContext)
    return MaterialApp
      : 'Whop Auth App'
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      : SignInScreen
      routes: {
        '/home': (context) => HomeScreen(),
      },
    );
}

```