MAD PROJECT REPORT

HASHAAM - 031

HAIDER - 023

HAMZA – 027

BS(IT)

6A

HHH FITNESS



Scope

Scope of the HHH Fitness App

1. Introduction

HHH Fitness is a mobile application designed to provide users with a holistic fitness experience. Built using Flutter for seamless cross-platform functionality, the app aims to offer personalized workout plans, nutrition tracking, progress monitoring, and a supportive community environment to help users achieve their fitness goals.

2. Core Features

1. User Registration and Profiles

- Sign-up and log-in using email, social media accounts, or phone number.
- User profile creation with personal information, fitness goals, and preferences.

2. Personalized Workout Plans

- Customized workout plans tailored to user goals such as weight loss, muscle gain, and endurance.
- Comprehensive exercise library with video demonstrations and detailed instructions.
 - Ability for users to create, modify, and save their custom workout routines.
 - Workout scheduling and notification reminders.

3. Nutrition and Diet Tracking

- Personalized meal plans based on dietary preferences and fitness goals.
- Extensive food database for logging meals and tracking nutritional intake.
- Barcode scanner for quick and easy food logging.
- Water intake tracking feature.

4. Progress Tracking

- Log workouts, weight, body measurements, and other health metrics.

- Visual progress charts and detailed reports to monitor improvements.
- Integration with wearable devices and fitness trackers for comprehensive data collection.

5. Community and Social Features

- In-app messaging and group chat functionalities.
- Social feed for sharing progress, achievements, and fitness tips.
- Fitness challenges and competitions with leaderboards to motivate users.
- Follow and interact with friends and fitness influencers.

6. Educational Content

- Access to articles, tips, and videos on fitness, nutrition, and overall wellness.
 - Webinars and live sessions with fitness experts and trainers.

7. Notifications and Reminders

- Customizable push notifications for workout reminders, meal logging, and motivational messages.
 - Alerts for community activities and new content updates.

8. Integration with Other Apps and Devices

- Sync with popular fitness devices and applications (e.g., Apple Health, Google Fit, Fitbit).

- Import and export data to ensure comprehensive fitness tracking.

3. Technical Requirements

1. Platform

- Mobile application available on iOS and Android platforms, developed using Flutter for a consistent user experience across devices.

2. Technology Stack

- Frontend: Flutter.

- Backend: Node.js with Express.js, or Django (Python).

- Database: MongoDB or PostgreSQL.

- Integration: RESTful APIs and third-party API integrations for wearable devices and fitness trackers.

3. Security and Privacy

- Data encryption to protect user information.
- Compliance with GDPR, CCPA, and other relevant data protection regulations.
- Secure authentication mechanisms, including OAuth and two-factor authentication.

4. Performance and Scalability

- Scalable architecture to accommodate a growing user base.

- Efficient load balancing and caching mechanisms.
- Regular performance optimization and testing to ensure smooth user experience.

4. Development Phases

1. Phase 1: Planning and Requirements Gathering

- Define project goals, target audience, and key features.
- Develop a detailed project plan and timeline.

2. Phase 2: Design and Prototyping

- Create wireframes and design mockups.
- Develop interactive prototypes for user testing and feedback.

3. Phase 3: Development

- Frontend and backend development.
- Integration with third-party services and APIs.
- Implementation of core features and functionalities.

4. Phase 4: Testing and Quality Assurance

- Conduct unit, integration, and user acceptance testing.
- Perform security and performance testing to ensure app reliability.

5. Phase 5: Deployment and Launch

- Deploy the app on iOS App Store and Google Play Store.
- Implement marketing and promotional strategies to attract users.

6. Phase 6: Maintenance and Updates

- Regular updates with new features and improvements.
- Ongoing technical support and bug fixes.

Conclusion

HHH Fitness aims to be a comprehensive fitness app, providing users with the tools and support they need to achieve their health and fitness goals. With a user-friendly design and robust technical foundation, HHH Fitness is positioned to become a valuable resource in the fitness industry.

Code:

Main

```
import 'package:final_project/pages/home_page.dart';
import 'package:final_project/pages/splash_screen.dart';
import 'package:flutter/material.dart';
import 'firebase_options.dart';
import 'package:firebase_core/firebase_core.dart';
Future<void> main() async {
 WidgetsFlutterBinding.ensureInitialized();
  await Firebase.initializeApp(
    options: DefaultFirebaseOptions.currentPlatform,
  );
  runApp(const MaterialApp(
    home: Home(),
  ));
class MainApp extends StatelessWidget {
  const MainApp({super.key});
 @override
 Widget build(BuildContext context) {
    return const SplashScreen();
```

Splash screen:

```
import 'dart:async';
import 'package:final_project/pages/login_page.dart';
import 'package:flutter/material.dart';
import
package:loading_animation_widget/loading_animation_widget.dart';
class SplashScreen extends StatefulWidget {
  const SplashScreen({super.key});
 @override
  State<SplashScreen> createState() => _SplashScreenState();
class SplashScreenState extends State<SplashScreen> {
 @override
 void initState() {
    super.initState();
    Timer(const Duration(seconds: 10), () {
      Navigator.of(context).pushReplacement(
        MaterialPageRoute(builder: (context) {
          return const Login();
        }),
      );
    });
  @override
 Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: const Color.fromARGB(255, 0, 0, 0),
      body: Column(
        children: [
          Center(child: Image.asset("assets/hhh fitness.png")),
          const SizedBox(
            height: 20,
```

Login:

```
// ignore for file: use build context synchronously,
use super parameters
import 'package:final project/modules/textfeild.dart';
import 'package:final project/pages/name page.dart';
import 'package:final project/pages/signup page.dart';
import 'package:flutter/material.dart';
import 'package:firebase auth/firebase auth.dart';
class Login extends StatefulWidget {
  const Login({Key? key}) : super(key: key);
 @override
  State<Login> createState() => _LoginState();
class LoginState extends State<Login> {
 final TextEditingController emailController =
TextEditingController();
 final TextEditingController passwordController =
TextEditingController();
  bool isPasswordVisible = false;
  void signuserin() async {
    showDialog(
      context: context,
      barrierDismissible: false,
      builder: (context) {
        return const Center(
          child: CircularProgressIndicator(),
        );
     },
    );
    try {
      await FirebaseAuth.instance.signInWithEmailAndPassword(
        email: emailController.text,
```

```
password: passwordController.text,
    );
    Navigator.pop(context);
    Navigator.pushReplacement(
      context,
      MaterialPageRoute(builder: (context) => const Name()),
    );
  } on FirebaseAuthException catch (e) {
    Navigator.pop(context);
    if (e.code == 'user-not-found') {
      showErrorDialog("Email incorrect");
    } else if (e.code == 'wrong-password') {
      showErrorDialog("Password incorrect");
    } else {
      showErrorDialog("Incorrect email or password");
 }
}
void showErrorDialog(String message) {
  showDialog(
    context: context,
    builder: (context) {
      return AlertDialog(
        title: const Text("Error"),
        content: Text(message),
        actions: [
          TextButton(
            onPressed: () {
              Navigator.pop(context);
            },
            child: const Text("OK"),
          ),
        ],
      );
    },
 );
```

```
@override
 Widget build(BuildContext context) {
    return SafeArea(
      child: Scaffold(
        backgroundColor: const Color.fromARGB(255, 0, 0, 0),
        body: SingleChildScrollView(
          child: Center(
            child: Column(
              children: [
                const SizedBox(height: 30),
                Image.asset(
                  "assets/hhh fitness.png",
                  height: 200,
                  width: 200,
                ),
                const SizedBox(height: 50),
                Container(
                  margin: const EdgeInsets.symmetric(horizontal: 20),
                  child: Textfield(
                    Icon: const Icon(Icons.email, color:
Color(0xffE04754)),
                    controller: emailController,
                    hintText: "Enter email",
                    obscureText: false,
                  ),
                ),
                const SizedBox(height: 30),
                Container(
                  margin: const EdgeInsets.symmetric(horizontal: 20),
                  child: TextField(
                    controller: passwordController,
                    obscureText: ! isPasswordVisible,
                    style: const TextStyle(color: Colors.white),
                    decoration: InputDecoration(
                      prefixIcon:
                          const Icon(Icons.password, color:
Color(0xffE04754)),
                      labelText: "Enter password",
                      labelStyle: const TextStyle(color: Colors.grey),
```

```
suffixIcon: IconButton(
                         icon: Icon(
                           isPasswordVisible
                               ? Icons.visibility
                               : Icons.visibility off,
                           color: const Color(0xffE04754),
                         ),
                        onPressed: () {
                           setState(() {
                            _isPasswordVisible = !_isPasswordVisible;
                           });
                        },
                       ),
                      border: const OutlineInputBorder(),
                    ),
                  ),
                ),
                const SizedBox(height: 50),
                ElevatedButton(
                  onPressed: signuserin,
                  style: ElevatedButton.styleFrom(
                    backgroundColor: const Color(0xffE04754),
                    shape: RoundedRectangleBorder(
                      borderRadius: BorderRadius.circular(10),
                    ),
                  ),
                  child: const Padding(
                    padding: EdgeInsets.symmetric(vertical: 10,
horizontal: 20),
                    child: Text(
                      "Login",
                      style: TextStyle(
                        color: Color(0xff1C6985),
                        fontSize: 30,
                        fontWeight: FontWeight.bold,
                       ),
                    ),
```

```
const SizedBox(height: 30),
                GestureDetector(
                  onTap: () {
                    Navigator.push(
                      context,
                      MaterialPageRoute(builder: (context) => const
SignUp()),
                    );
                  },
                  child: const Text.rich(
                    TextSpan(
                      children: [
                        TextSpan(
                          text: "Don't have an account? ",
                          style: TextStyle(color: Colors.white),
                        ),
                        TextSpan(
                          text: "SignUp",
                          style: TextStyle(
                            color: Colors.blue,
                            decoration: TextDecoration.underline,
                            decorationColor: Colors.blue,
                            decorationThickness: 2,
                          ),
                        ),
                      ],
                    ),
                  ),
                ),
              ],
         ),
       ),
     ),
});
```

Signup:

```
// ignore for file: use build context synchronously
import 'package:final_project/modules/textfeild.dart';
import 'package:final_project/pages/login_page.dart';
import 'package:flutter/material.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'package:firebase auth/firebase auth.dart';
class SignUp extends StatefulWidget {
  const SignUp({super.key});
 @override
  State<SignUp> createState() => SignUpState();
class _SignUpState extends State<SignUp> {
  final emailController = TextEditingController();
 final passwordController = TextEditingController();
 final confirmpasswordController = TextEditingController();
  final db = FirebaseFirestore.instance;
  void signUserUp() async {
    if (emailController.text.isEmpty | |
        passwordController.text.isEmpty ||
        confirmpasswordController.text.isEmpty) {
      showErrorDialog("Please enter email and password");
      return;
    if (passwordController.text != confirmpasswordController.text) {
      showErrorDialog("Passwords do not match");
      return;
    showDialog(
```

```
context: context,
    builder: (context) {
      return const Center(
        child: CircularProgressIndicator(),
      );
    },
  );
  try {
    await FirebaseAuth.instance.createUserWithEmailAndPassword(
      email: emailController.text,
      password: passwordController.text,
    );
    Navigator.pop(context); // Close the progress dialog
    Navigator.pushReplacement(
      context,
      MaterialPageRoute(builder: (context) => const Login()),
    );
  } on FirebaseAuthException catch (e) {
    Navigator.pop(context); // Close the progress dialog
    showErrorDialog(e.message ?? "An unknown error occurred");
void showErrorDialog(String message) {
  showDialog(
    context: context,
    builder: (context) {
      return AlertDialog(
        title: const Text("Error"),
        content: Text(message),
        actions: [
          TextButton(
            onPressed: () {
              Navigator.pop(context);
            },
            child: const Text("OK"),
```

```
);
      },
   );
 @override
 Widget build(BuildContext context) {
    return SafeArea(
      child: Scaffold(
        backgroundColor: const Color.fromARGB(255, 0, 0, 0),
        body: SingleChildScrollView(
          child: Center(
            child: Column(
              children: [
                const SizedBox(height: 30),
                Image.asset(
                  "assets/hhh fitness.png",
                  height: 200,
                  width: 200,
                  errorBuilder: (BuildContext context, Object
exception,
                      StackTrace? stackTrace) {
                    return const Text(
                      'Image not found',
                      style: TextStyle(color: Colors.red),
                    );
                  },
                ),
                const SizedBox(height: 50),
                Container(
                  margin: const EdgeInsets.symmetric(horizontal: 20),
                  child: Textfield(
                    Icon: const Icon(Icons.email, color:
Color(0xffE04754)),
                    controller: emailController,
                    hintText: "Enter email",
                    obscureText: false,
                  ),
```

```
const SizedBox(height: 30),
                Container(
                  margin: const EdgeInsets.symmetric(horizontal: 20),
                  child: Textfield(
                    Icon: const Icon(Icons.password, color:
Color(0xffE04754)),
                    controller: passwordController,
                    hintText: "Enter password",
                    obscureText: true,
                  ),
                ),
                const SizedBox(height: 30),
                Container(
                  margin: const EdgeInsets.symmetric(horizontal: 20),
                  child: Textfield(
                    Icon: const Icon(Icons.password, color:
Color(0xffE04754)),
                    controller: confirmpasswordController,
                    hintText: "Confirm password",
                    obscureText: true,
                  ),
                ),
                const SizedBox(height: 50),
                ElevatedButton(
                  onPressed: signUserUp,
                  style: ElevatedButton.styleFrom(
                    backgroundColor: const Color(0xffE04754),
                    shape: RoundedRectangleBorder(
                      borderRadius: BorderRadius.circular(10),
                    ),
                  ),
                  child: const Padding(
                    padding: EdgeInsets.symmetric(vertical: 10,
horizontal: 20),
                    child: Text(
                      "SignUp",
                      style: TextStyle(
                        color: Color(0xff1C6985),
                        fontSize: 30,
```

```
fontWeight: FontWeight.bold,
                    ),
                  ),
                ),
                const SizedBox(height: 30),
                GestureDetector(
                  onTap: () {
                    Navigator.push(
                      context,
                      MaterialPageRoute(builder: (context) => const
Login()),
                    );
                  },
                  child: const Text.rich(
                    TextSpan(
                      children: [
                        TextSpan(
                          text: "Already have an account? ",
                           style: TextStyle(color: Colors.white),
                         ),
                        TextSpan(
                          text: "LogIn",
                          style: TextStyle(
                             color: Colors.blue,
                             decoration: TextDecoration.underline,
                             decorationColor: Colors.blue,
                            decorationThickness: 2,
                           ),
                        ),
                      ],
                    ),
                  ),
                ),
              ],
         ),
```

```
);
}
}
```

Name:

```
import 'package:final_project/pages/gender_page.dart';
import 'package:flutter/material.dart';
class Name extends StatefulWidget {
  const Name({super.key});
 @override
  State<Name> createState() => _NameState();
class NameState extends State<Name> {
  final namecontroller = TextEditingController();
 final formKey = GlobalKey<FormState>();
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      body: Stack(
        children: [
          Opacity(
            opacity: 1,
            child: Container(
              decoration: const BoxDecoration(
                image: DecorationImage(
                  image: AssetImage(
                      'assets/gym5.png'),
                  fit: BoxFit.cover,
                ),
              ),
            ),
          ),
          Align(
            alignment: Alignment.topCenter,
            child: Padding(
              padding: const EdgeInsets.only(left: 8.0, right: 8, top:
100),
```

```
child: Form(
      key: _formKey,
      child: TextFormField(
        validator: (value) {
          if (value == null || value.isEmpty) {
            return 'Please enter a name';
          return null;
        },
        controller: namecontroller,
        style: const TextStyle(
            color: Color.fromARGB(255, 255, 255, 255)),
        decoration: InputDecoration(
          labelText: 'Enter name',
          labelStyle: const TextStyle(
              color: Color.fromARGB(255, 255, 255, 255)),
          border: OutlineInputBorder(
            borderRadius: BorderRadius.circular(10.0),
          ),
          focusedBorder: OutlineInputBorder(
            borderSide: const BorderSide(
                color: Color.fromARGB(255, 255, 255, 255),
                width: 2.0),
            borderRadius: BorderRadius.circular(10.0),
          ),
        ),
      ),
   ),
  ),
),
GestureDetector(
 onTap: () {
   if (_formKey.currentState?.validate() == true) {
      Navigator.push(
        context,
        MaterialPageRoute(
          builder: (context) => Gender(
            name: namecontroller.text,
```

```
),
            );
          }
        },
        child: Align(
          alignment: Alignment.bottomCenter,
          child: Padding(
             padding: const EdgeInsets.only(bottom: 50.0),
             child: Container(
              decoration: BoxDecoration(
                 color: const Color(0xffE04754),
                 borderRadius: BorderRadius.circular(10),
              ),
              child: const Padding(
                 padding: EdgeInsets.only(
                     top: 10, bottom: 10, left: 20, right: 20),
                 child: Text("Next"),
              ),
            ),
          ),
        ),
      ),
    ],
  ),
);
```

Gender:

```
// ignore for file: use super parameters
import 'package:cloud firestore/cloud firestore.dart';
import 'package:flutter/material.dart';
import 'weight page.dart';
class Gender extends StatefulWidget {
  const Gender({Key? key, required this.name}) : super(key: key);
 final String name;
 @override
 State<Gender> createState() => GenderState();
class GenderState extends State<Gender> {
 final db = FirebaseFirestore.instance;
  Color container1Color = const Color.fromARGB(255, 0, 0, 0);
  Color container2Color = const Color.fromARGB(255, 0, 0, 0);
  void changeColor(int containerNumber) {
    setState(() {
      if (containerNumber == 1) {
       container1Color =
            container1Color == const Color.fromARGB(255, 0, 0, 0)
                ? const Color.fromARGB(255, 255, 255, 255)
                : const Color.fromARGB(255, 0, 0, 0);
        _container2Color = const Color.fromARGB(255, 0, 0, 0);
      } else {
        container2Color =
            _container2Color == const Color.fromARGB(255, 0, 0, 0)
                ? const Color.fromARGB(255, 255, 255, 255)
                : const Color.fromARGB(255, 0, 0, 0);
        _container1Color = const Color.fromARGB(255, 0, 0, 0);
```

```
@override
Widget build(BuildContext context) {
  return SafeArea(
    child: Scaffold(
      backgroundColor: const Color.fromARGB(255, 255, 255, 255),
      body: Stack(
        children: [
          Opacity(
            opacity: 1,
            child: Container(
              decoration: const BoxDecoration(
                image: DecorationImage(
                  image: AssetImage('assets/gym8.jpg'),
                  fit: BoxFit.cover,
                ),
              ),
            ),
          ),
          Column(
            children: [
              const SizedBox(height: 50),
              const Align(
                alignment: Alignment.topLeft,
                child: Text(
                  " Welcome",
                  style: TextStyle(
                      fontSize: 35,
                      fontWeight: FontWeight.bold,
                      color: Color(0xffE04754)),
                ),
              ),
              const Align(
                alignment: Alignment.topLeft,
                child: Text(
                     Select your Gender",
                  style: TextStyle(
                      fontSize: 35,
```

```
fontWeight: FontWeight.bold,
                         color: Color(0xff1C6985)),
                  ),
                ),
                const SizedBox(
                  height: 250,
                ),
                GestureDetector(
                  onTap: () async {
                    _changeColor(1);
                    await db
                         .collection("data")
                         .doc(widget.name)
                         .set({'Gender': 'Male'});
                  },
                  child: Align(
                    alignment: Alignment.center,
                    child: Container(
                      height: 100,
                      width: MediaQuery.of(context).size.width - 20,
                      decoration: BoxDecoration(
                           color: container1Color.withOpacity(0.5),
                           borderRadius: BorderRadius.circular(10),
                           border: Border.all(
                               color: const Color(0xff1C6985), width:
2)),
                      child: const Align(
                         alignment: Alignment.bottomLeft,
                         child: Align(
                           alignment: Alignment.center,
                           child: Text(
                             "Male",
                             style: TextStyle(
                                 fontSize: 50,
                                 fontWeight: FontWeight.bold,
                                 color: Color(0xffE04754)),
                           ),
```

```
),
                  ),
                ),
                const SizedBox(
                  height: 10,
                ),
                GestureDetector(
                  onTap: () async {
                    _changeColor(2);
                    await db
                         .collection("data")
                         .doc(widget.name)
                         .set({'Gender': 'Female'});
                  },
                  child: Align(
                    alignment: Alignment.center,
                    child: Container(
                      height: 100,
                      width: MediaQuery.of(context).size.width - 20,
                      decoration: BoxDecoration(
                           color: _container2Color.withOpacity(0.5),
                           borderRadius: BorderRadius.circular(10),
                           border: Border.all(
                               color: const Color(0xff1C6985), width:
2)),
                       child: const Align(
                         alignment: Alignment.bottomLeft,
                         child: Align(
                           alignment: Alignment.center,
                           child: Text(
                             "Female",
                             style: TextStyle(
                                 fontSize: 50,
                                 fontWeight: FontWeight.bold,
                                 color: Color(0xffE04754)),
                           ),
                        ),
```

```
),
                ),
                const SizedBox(
                  height: 50,
                ),
                GestureDetector(
                  onTap: () {
                    Navigator.push(
                       context,
                      MaterialPageRoute(
                           builder: (context) => Weight(name2:
widget.name)),
                    );
                  },
                  child: Align(
                    alignment: Alignment.center,
                    child: Container(
                       decoration: BoxDecoration(
                         color: const Color(0xffE04754),
                        borderRadius: BorderRadius.circular(10),
                      ),
                      child: const Padding(
                         padding: EdgeInsets.only(
                             top: 10, bottom: 10, left: 20, right: 20),
                         child: Text("Next"),
                      ),
                    ),
                  ),
              ],
          ],
        ),
     ),
} );
```

Weight:

```
import 'package:cloud firestore/cloud firestore.dart';
import 'package:final project/pages/height page.dart';
import 'package:flutter/material.dart';
class Weight extends StatefulWidget {
  const Weight({super.key, required this.name2});
 final String name2;
 @override
  State<Weight> createState() => WeightState();
class WeightState extends State<Weight> {
  final db = FirebaseFirestore.instance;
  Color container1Color = const Color.fromARGB(255, 0, 0, 0);
  Color container2Color = const Color.fromARGB(255, 0, 0, 0);
  void changeColor(int containerNumber) {
    setState(() {
      if (containerNumber == 1) {
        container1Color =
            container1Color == const Color.fromARGB(255, 0, 0, 0)
                ? const Color.fromARGB(255, 255, 255, 255)
                : const Color.fromARGB(255, 0, 0, 0);
        container2Color =
            const Color.fromARGB(255, 0, 0, 0); // Reset the second
container
      } else {
       container2Color =
            container2Color == const Color.fromARGB(255, 0, 0, 0)
                ? const Color.fromARGB(255, 255, 255, 255)
                : const Color.fromARGB(255, 0, 0, 0);
        container1Color =
            const Color.fromARGB(255, 0, 0, 0); // Reset the first
container
```

```
});
  String id = 'a';
 @override
 Widget build(BuildContext context) {
    return SafeArea(
      child: Scaffold(
        backgroundColor: const Color.fromARGB(255, 255, 255, 255),
        body: Stack(
          children: [
            // Background image with reduced opacity
            Opacity(
              opacity: 1, // Adjust the opacity as needed
              child: Container(
                decoration: const BoxDecoration(
                  image: DecorationImage(
                    image: AssetImage(
                         'assets/gym3.jpg'), // Replace with your image
path
                    fit: BoxFit.cover,
                  ),
                ),
              ),
            ),
            Column(
              children: [
                const SizedBox(height: 50),
                const Align(
                  alignment: Alignment.topLeft,
                  child: Text(
                    " What you want to do",
                    style: TextStyle(
                      fontSize: 35,
                      fontWeight: FontWeight.bold,
                      color: Color(0xff1C6985),
```

```
),
                const SizedBox(height: 300),
                GestureDetector(
                  onTap: () async {
                    _changeColor(1);
                    db
                         .collection('data')
                         .doc(widget.name2)
                         .update({'Want': 'Loose weight'});
                  },
                  child: Align(
                    alignment: Alignment.center,
                    child: Container(
                      height: 100,
                      width: MediaQuery.of(context).size.width - 20,
                      decoration: BoxDecoration(
                         color: container1Color
                             .withOpacity(0.5), // Adjust the opacity
here
                         borderRadius: BorderRadius.circular(10),
                         border: Border.all(
                             color: const Color(0xff1C6985), width: 2),
                      ),
                      child: const Align(
                         alignment: Alignment.bottomLeft,
                         child: Text(
                           "Lose Weight",
                           style: TextStyle(
                             fontSize: 35,
                            fontWeight: FontWeight.bold,
                             color: Color(0xffE04754),
                          ),
                        ),
                       ),
                    ),
                  ),
                ),
                const SizedBox(height: 10),
                GestureDetector(
```

```
onTap: () async {
                    _changeColor(2);
                    db
                        .collection('data')
                        .doc(widget.name2)
                         .update({'Want': 'Gain Muscle'});
                  },
                  child: Align(
                    alignment: Alignment.center,
                    child: Container(
                      height: 100,
                      width: MediaQuery.of(context).size.width - 20,
                      decoration: BoxDecoration(
                        color: container2Color
                             .withOpacity(0.5), // Adjust the opacity
here
                        borderRadius: BorderRadius.circular(10),
                        border: Border.all(
                             color: const Color(0xff1C6985), width: 2),
                      ),
                      child: const Align(
                        alignment: Alignment.bottomLeft,
                        child: Text(
                           "Gain Muscles",
                          style: TextStyle(
                            fontSize: 35,
                            fontWeight: FontWeight.bold,
                            color: Color(0xffE04754),
                          ),
                        ),
                      ),
                    ),
                  ),
                ),
                const SizedBox(height: 50),
                GestureDetector(
                  onTap: () {
                    Navigator.push(
                      context,
```

```
MaterialPageRoute(
                           builder: (context) => Height(name3:
widget.name2)),
                    );
                  },
                  child: Align(
                    alignment: Alignment.center,
                    child: Container(
                      decoration: BoxDecoration(
                         color: const Color(0xffE04754),
                         borderRadius: BorderRadius.circular(10),
                       ),
                      child: const Padding(
                         padding: EdgeInsets.only(
                           top: 10,
                           bottom: 10,
                           left: 20,
                           right: 20,
                         ),
                         child: Text("Next"),
                      ),
                    ),
                  ),
                ),
              ],
            ),
          ],
       ),
      ),
   );
```

Height:

```
// ignore for file: use build context synchronously
import 'package:cloud firestore/cloud firestore.dart';
import 'package:final_project/pages/ready_page.dart';
import 'package:flutter/material.dart';
class Height extends StatefulWidget {
  const Height({super.key, required this.name3});
 final String name3;
 @override
  State<Height> createState() => _HeightState();
class HeightState extends State<Height> {
 final weightController = TextEditingController();
 final heightController = TextEditingController();
 final db = FirebaseFirestore.instance;
  void showErrorDialog(String message) {
    showDialog(
      context: context,
      builder: (context) {
        return AlertDialog(
          title: const Text("Error"),
          content: Text(message),
          actions: [
            TextButton(
              onPressed: () {
                Navigator.pop(context);
              child: const Text("OK"),
            ),
          ],
```

```
void validateAndSubmit() async {
    if (weightController.text.isEmpty | |
heightController.text.isEmpty) {
      showErrorDialog("Please enter both weight and height.");
      return;
    }
    try {
      await db.collection('data').doc(widget.name3).update({
        'Weight': weightController.text,
        'Height': heightController.text,
      });
      Navigator.push(
        context,
        MaterialPageRoute(builder: (context) => const Ready()),
      );
    } catch (e) {
      showErrorDialog("Failed to save data. Please try again.");
    }
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      body: Stack(
        children: [
          Opacity(
            opacity: 1,
            child: Container(
              decoration: const BoxDecoration(
                image: DecorationImage(
                  image: AssetImage('assets/gym4.jpg'),
                  fit: BoxFit.cover,
                ),
              ),
```

```
Column(
  children: [
    const SizedBox(height: 50),
    const Align(
      alignment: Alignment.topLeft,
      child: Text(
           Enter Your Weight & Height",
        style: TextStyle(
          fontSize: 35,
          fontWeight: FontWeight.bold,
          color: Color(0xffE04754),
       ),
      ),
    ),
    const SizedBox(height: 350),
   Align(
      child: Padding(
        padding: const EdgeInsets.all(8.0),
        child: TextField(
          controller: weightController,
          style: const TextStyle(
              color: Color.fromARGB(255, 255, 255, 255)),
          decoration: InputDecoration(
            labelText: 'Enter Weight in kg',
            labelStyle: const TextStyle(
                color: Color.fromARGB(255, 255, 255, 255)),
            border: OutlineInputBorder(
              borderRadius: BorderRadius.circular(10.0),
            focusedBorder: OutlineInputBorder(
              borderSide: const BorderSide(
                  color: Color.fromARGB(255, 255, 255, 255),
                  width: 2.0),
              borderRadius: BorderRadius.circular(10.0),
            ),
          ),
        ),
```

```
const SizedBox(height: 20),
Align(
  child: Padding(
    padding: const EdgeInsets.all(8.0),
    child: TextField(
      controller: heightController,
      style: const TextStyle(
          color: Color.fromARGB(255, 255, 255, 255)),
      decoration: InputDecoration(
        labelText: 'Enter Height in cm',
        labelStyle: const TextStyle(
            color: Color.fromARGB(255, 255, 255, 255)),
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(10.0),
        focusedBorder: OutlineInputBorder(
          borderSide: const BorderSide(
              color: Color.fromARGB(255, 255, 255, 255),
              width: 2.0),
          borderRadius: BorderRadius.circular(10.0),
        ),
      ),
    ),
  ),
const SizedBox(height: 50),
GestureDetector(
  onTap: validateAndSubmit,
  child: Align(
    alignment: Alignment.center,
    child: Container(
      decoration: BoxDecoration(
        color: const Color(0xffE04754),
        borderRadius: BorderRadius.circular(10),
      ),
      child: const Padding(
        padding: EdgeInsets.only(
            top: 10, bottom: 10, left: 20, right: 20),
        child: Text("Next"),
```

Ready:

```
import 'package:final project/pages/loading page.dart';
import 'package:flutter/material.dart';
// Loading page
// Ready page
class Ready extends StatelessWidget {
  const Ready({super.key});
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      body: Stack(
        children: <Widget>[
          // Background image with reduced opacity
          Opacity(
            opacity: 1, // Adjust the opacity as needed
            child: Container(
              decoration: const BoxDecoration(
                image: DecorationImage(
                  image: AssetImage(
                      'assets/gym.jpg'), // Replace with your image
path
                  fit: BoxFit.cover,
                ),
              ),
            ),
          ),
          // Other widgets on top of the background image
          const Align(
            alignment: Alignment(0, 0.5),
            child: Text(
              'Are You Ready',
              style: TextStyle(
                  fontSize: 50,
                  color: Color.fromARGB(255, 255, 255, 255),
                  fontFamily: 'arial'),
```

```
),
          ),
          // Yes button
          Align(
            alignment: const Alignment(0, 0.7),
            child: ElevatedButton(
              onPressed: () {
                Navigator.pushReplacement(
                  context,
                  MaterialPageRoute(builder: (context) => const
Loading()),
                );
              },
              style: ElevatedButton.styleFrom(
                backgroundColor: Colors.red, // Background color
                shape: RoundedRectangleBorder(
                  borderRadius: BorderRadius.circular(30), // Rounded
edges
                ),
                padding:
                    const EdgeInsets.symmetric(vertical: 15,
horizontal: 30),
              ),
              child: const Text(
                'Yes',
                style: TextStyle(
                  fontSize: 20,
                  color: Colors.white,
                ),
              ),
            ),
          ),
       ],
     ),
});
```

Loading:

```
import 'dart:async';
import 'package:final project/pages/home page.dart';
import 'package:flutter/material.dart';
import
'package:loading animation widget/loading animation widget.dart';
class Loading extends StatefulWidget {
  const Loading({super.key});
 @override
 State<Loading> createState() => _LoadingState();
class LoadingState extends State<Loading> {
 @override
 void initState() {
    super.initState();
    Timer(const Duration(seconds: 10), () {
      Navigator.of(context).pushReplacement(
        MaterialPageRoute(builder: (context) => const Home()),
      );
   });
  @override
 Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.black,
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            LoadingAnimationWidget.beat(color: Colors.white, size:
200),
            const SizedBox(height: 50),
            const Text(
              "Making your plan ready",
```

Home:

```
// ignore for file: use build context synchronously
import 'package:final_project/modules/calender.dart';
import 'package:final project/modules/exersice.dart';
import 'package:final project/pages/login page.dart';
import 'package:final project/pages/profile.dart';
import 'package:final project/pages/report page.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:flutter/material.dart';
class Home extends StatefulWidget {
  const Home({super.key});
 @override
 State<Home> createState() => HomeState();
class HomeState extends State<Home> {
  int selectedIndex = 0;
 final List<Widget> _pages = [
    const HomePage(),
    const ReportScreen(),
    const ProfilePage(),
  1;
  void onItemTapped(int index) {
    setState(() {
     selectedIndex = index;
    });
  void signuserout() async {
    await FirebaseAuth.instance.signOut();
    Navigator.of(context).pushReplacement(
      MaterialPageRoute(builder: (context) => const Login()),
    );
```

```
@override
 Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: const Color.fromARGB(255, 0, 0, 0),
      appBar: AppBar(
        title: const Text(
          "HHH Fitness",
          style: TextStyle(
            color: Color.fromARGB(255, 255, 255, 255),
            fontSize: 24,
            fontWeight: FontWeight.bold,
            fontFamily: 'Arial',
          ),
        ),
        backgroundColor: const Color.fromARGB(255, 0, 0, 0),
        iconTheme: const IconThemeData(
          color: Color.fromARGB(
              255, 255, 255, 255),
        ),
        actions: [
          IconButton(onPressed: signuserout, icon: const
Icon(Icons.logout))
        ],
      ),
      body: _pages[_selectedIndex],
      bottomNavigationBar: BottomNavigationBar(
        items: const <BottomNavigationBarItem>[
          BottomNavigationBarItem(
            icon: Icon(Icons.home),
            label: 'Home',
          ),
          BottomNavigationBarItem(
            icon: Icon(Icons.graphic_eq_outlined),
            label: 'Report',
          ),
          BottomNavigationBarItem(
            icon: Icon(Icons.person),
            label: 'Profile',
```

```
),
        ],
        currentIndex: selectedIndex,
        selectedItemColor:
            const Color(0xffE04754),
        unselectedItemColor: Colors.grey,
        backgroundColor: const Color.fromARGB(
            255, 0, 0, 0),
        onTap: _onItemTapped,
      ),
    );
 }
class HomePage extends StatefulWidget {
  const HomePage({super.key});
 @override
 // ignore: library private types in public api
  _HomePageState createState() => _HomePageState();
class HomePageState extends State<HomePage>
    with SingleTickerProviderStateMixin {
 late TabController tabController;
 final ScrollController scrollController = ScrollController();
 final GlobalKey _beginnerKey = GlobalKey();
 final GlobalKey _intermediateKey = GlobalKey();
 final GlobalKey _proKey = GlobalKey();
 @override
 void initState() {
    super.initState();
    _tabController = TabController(length: 3, vsync: this);
    tabController.addListener(() {
      if (!_tabController.indexIsChanging) {
        switch ( tabController.index) {
```

```
case 0:
          _scrollToSection(_beginnerKey);
          break;
        case 1:
          _scrollToSection(_intermediateKey);
          break;
        case 2:
          _scrollToSection(_proKey);
          break;
  });
void _scrollToSection(GlobalKey key) {
  final context = key.currentContext;
  if (context != null) {
    Scrollable.ensureVisible(
      context,
      duration: const Duration(seconds: 1),
      curve: Curves.easeInOut,
    );
}
@override
Widget build(BuildContext context) {
  return DefaultTabController(
    length: 3,
    child: Column(
      children: [
        Expanded(
          child: ListView(
            controller: _scrollController,
            children: [
              const calender(),
              TabBar(
                controller: _tabController,
                tabs: const [
```

```
Tab(text: 'Beginner'),
                    Tab(text: 'Intermediate'),
                    Tab(text: 'Pro'),
                  ],
                ),
                Container(
                    key: _beginnerKey,
                    color: const Color.fromARGB(255, 255, 255, 255),
                    // ignore: prefer_const_constructors
                    child: Column(
                       children: const [
                         Padding(
                           padding: EdgeInsets.only(left: 17.0, top:
10),
                           child: Align(
                             alignment: Alignment.topLeft,
                             child: Text(
                               "Beginner",
                               style: TextStyle(
                                   fontSize: 30, fontWeight:
FontWeight.bold),
                             ),
                           ),
                         ),
                         SizedBox(
                           height: 10,
                         ),
                         Exercise(
                           imagePath: 'assets/beg1.jpg',
                          text: "ABS BEGINNER",
                         ),
                         Exercise(
                           imagePath: 'assets/beg2.jpg',
                          text: "CHEST BEGINNER",
                         ),
                         Exercise(
                           imagePath: 'assets/beg3.jpg',
                           text: "ARM BEGINNER",
```

```
Exercise(
                           imagePath: 'assets/beg4.jpg',
                           text: "LEG BEGINNER",
                         ),
                         Exercise(
                           imagePath: 'assets/beg5.jpg',
                           text: "SHOULDER BEGINNER",
                         ),
                       ],
                     )),
                Container(
                    key: _intermediateKey,
                     color: const Color.fromARGB(255, 255, 255, 255),
                    child: const Column(
                       children: [
                         Padding(
                           padding: EdgeInsets.only(left: 17.0, top:
10),
                           child: Align(
                             alignment: Alignment.topLeft,
                             child: Text(
                               "Intermediate",
                               style: TextStyle(
                                   fontSize: 30, fontWeight:
FontWeight.bold),
                             ),
                           ),
                         ),
                         SizedBox(
                           height: 10,
                         ),
                         Exercise(
                           imagePath: 'assets/int3.jpg',
                           text: "ABS INTERMEDIATE",
                         ),
                         Exercise(
                           imagePath: 'assets/int2.jpeg',
                           text: "CHEST INTERMEDIATE",
```

```
Exercise(
                           imagePath: 'assets/int1.jpg',
                          text: "ARM INTERMEDIATE",
                         ),
                         Exercise(
                           imagePath: 'assets/int4.jpeg',
                          text: "LEG INTERMEDIATE",
                         ),
                         Exercise(
                           imagePath: 'assets/int5.jpeg',
                          text: "SHOULDER INTERMEDIATE",
                         ),
                       ],
                     )),
                Container(
                    key: _proKey,
                    color: const Color.fromARGB(255, 255, 255, 255),
                    child: const Column(
                      children: [
                         Padding(
                           padding: EdgeInsets.only(left: 17.0, top:
10),
                           child: Align(
                             alignment: Alignment.topLeft,
                             child: Text(
                               "Advanced",
                               style: TextStyle(
                                   fontSize: 30, fontWeight:
FontWeight.bold),
                             ),
                           ),
                         ),
                         SizedBox(
                           height: 10,
                         ),
                         Exercise(
                          imagePath: 'assets/pro1.jpg',
                          text: "ABS ADVANCED",
```

```
Exercise(
                         imagePath: 'assets/pro2.jpg',
                         text: "CHEST ADVANCED",
                       ),
                       Exercise(
                         imagePath: 'assets/pro3.jfif',
                         text: "ARM ADVANCED",
                       ),
                       Exercise(
                         imagePath: 'assets/pro4.jpg',
                         text: "LEG ADVANCED",
                       ),
                       Exercise(
                         imagePath: 'assets/pro5.jpg',
                         text: "SHOULDER ADVANCED",
                       ),
                     ],
                   )),
            ],
        ),
       ],
    ),
});
```

Beginner:

```
import 'package:final project/pages/rest/rest page.dart';
import 'package:flutter/material.dart';
class Beginner extends StatefulWidget {
  const Beginner({super.key, required this.text, required
this.imagePath});
 final String text;
 final String imagePath;
 @override
  State<Beginner> createState() => _BeginnerState();
class BeginnerState extends State<Beginner> {
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: const Color.fromARGB(255, 255, 255, 255),
      body: Column(
        children: [
          Container(
            height: 200,
            width: MediaQuery.of(context).size.width,
            decoration: BoxDecoration(
              borderRadius: const BorderRadius.only(
                  bottomLeft: Radius.circular(50),
                  bottomRight: Radius.circular(50)),
              image: DecorationImage(
                image: AssetImage(widget.imagePath), // Use provided
image path
                fit: BoxFit.cover, // Ensure image fills the container
              ),
            ),
            child: Center(
              child: Text(
                widget.text,
                style: const TextStyle(
```

```
fontSize: 32.0, // Adjust font size as needed
                  fontWeight: FontWeight.bold,
                  color: Color.fromARGB(
                       255, 255, 255, 255), // Clear text against
background
                ),
              ),
          ),
          const SizedBox(
            height: 50,
          ),
          Expanded(
            child: Container(
              width: MediaQuery.of(context).size.width,
              decoration: const BoxDecoration(
                borderRadius: BorderRadius.only(
                    topLeft: Radius.circular(50),
                    topRight: Radius.circular(50)),
                color: Color.fromARGB(255, 0, 0, 0),
              ),
              child: ListView(
                children: [
                  const SizedBox(
                    height: 20,
                  ),
                  Row(children: [
                    const Padding(
                      padding: EdgeInsets.only(left: 50.0),
                      child: Text(
                         "20 mins . 7 Workouts",
                        style:
                             TextStyle(fontSize: 20, color:
Color(0xffE04754)),
                       ),
                     ),
                    const SizedBox(
                      width: 80,
```

```
GestureDetector(
                      onTap: () {
                        Navigator.push(
                             context,
                            MaterialPageRoute(
                                 builder: (context) => const Rest()));
                      },
                      child: Container(
                        height: 50,
                        width: 100,
                        decoration: BoxDecoration(
                             borderRadius: BorderRadius.circular(200),
                             color: Colors.white),
                        child: const Center(
                             child: Text(
                          "START",
                          style: TextStyle(fontWeight:
FontWeight.bold),
                        )),
                      ),
                    ),
                  1),
                  const SizedBox(
                    height: 20,
                  ),
                  Container(
                    height: 100,
                    margin: const EdgeInsets.symmetric(horizontal:
50),
                    decoration: BoxDecoration(
                      borderRadius: BorderRadius.circular(10),
                      color: const Color.fromARGB(255, 255, 255, 255),
                      image: const DecorationImage(
              image: AssetImage("assets/jump.jpg"), // Use provided
image path
              fit: BoxFit.cover, // Ensure image fills the container
            ),
                    child: const Center(
```

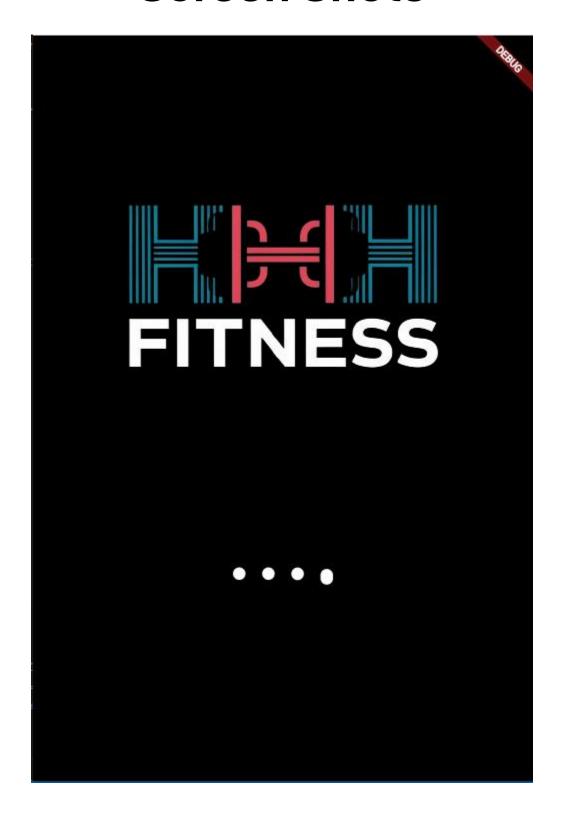
```
child: Text(
                      "JUMPING JACKS",
                      style:
                          TextStyle(fontWeight: FontWeight.bold,
fontSize: 20,color: Colors.white),
                    )),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
                  Container(
                    height: 100,
                    margin: const EdgeInsets.symmetric(horizontal:
50),
                    decoration: BoxDecoration(
                      borderRadius: BorderRadius.circular(10),
                      color: const Color.fromARGB(255, 255, 255, 255),
                      image: const DecorationImage(
              image: AssetImage("assets/russ.jpg"), // Use provided
image path
              fit: BoxFit.cover, // Ensure image fills the container
            ),
                    ),
                    child: const Center(
                        child: Text(
                      "RUSSIAN TWIST",
                      style:
                          TextStyle(fontWeight: FontWeight.bold,
fontSize: 20,color: Colors.white),
                    )),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
                  Container(
                    height: 100,
                    margin: const EdgeInsets.symmetric(horizontal:
50),
                    decoration: BoxDecoration(
```

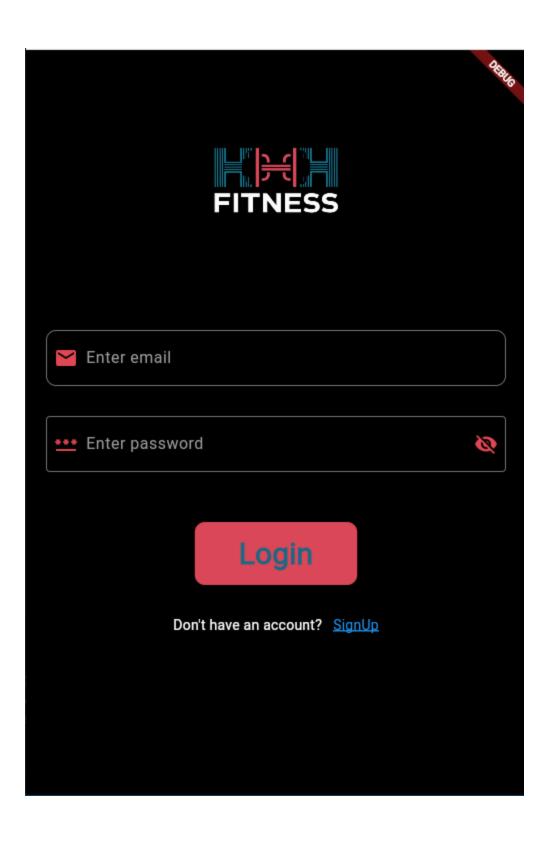
```
borderRadius: BorderRadius.circular(10),
                      color: const Color.fromARGB(255, 255, 255, 255),
                      image: const DecorationImage(
              image: AssetImage("assets/mount.jpg"), // Use provided
image path
              fit: BoxFit.cover, // Ensure image fills the container
            ),
                    ),
                    child: const Center(
                        child: Text(
                      "MOUNTAIN CLIMBING",
                      style:
                          TextStyle(fontWeight: FontWeight.bold,
fontSize: 20,color: Colors.white),
                    )),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
                  Container(
                    height: 100,
                    margin: const EdgeInsets.symmetric(horizontal:
50),
                    decoration: BoxDecoration(
                      borderRadius: BorderRadius.circular(10),
                      color: const Color.fromARGB(255, 255, 255, 255),
                      image: const DecorationImage(
              image: AssetImage("assets/legr.jpg"), // Use provided
image path
              fit: BoxFit.cover, // Ensure image fills the container
            ),
                    ),
                    child: const Center(
                        child: Text(
                      "LEG RAISES",
                      style:
                          TextStyle(fontWeight: FontWeight.bold,
fontSize: 20,color: Colors.white),
```

```
)),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
                  Container(
                    height: 100,
                    margin: const EdgeInsets.symmetric(horizontal:
50),
                    decoration: BoxDecoration(
                      borderRadius: BorderRadius.circular(10),
                      color: const Color.fromARGB(255, 255, 255, 255),
                      image: const DecorationImage(
              image: AssetImage("assets/abdom.webp"), // Use provided
image path
              fit: BoxFit.cover, // Ensure image fills the container
            ),
                    ),
                    child: const Center(
                        child: Text(
                      "ABDOMINAL CRUNCHES",
                      style:
                          TextStyle(fontWeight: FontWeight.bold,
fontSize: 20,color: Colors.white),
                    )),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
                  Container(
                    height: 100,
                    margin: const EdgeInsets.symmetric(horizontal:
50),
                    decoration: BoxDecoration(
                      borderRadius: BorderRadius.circular(10),
                      color: const Color.fromARGB(255, 255, 255, 255),
                      image: const DecorationImage(
              image: AssetImage("assets/planks.jpg"), // Use provided
image path
```

```
fit: BoxFit.cover, // Ensure image fills the container
            ),
                    ),
                    child: const Center(
                        child: Text(
                      "PLANK",
                      style:
                          TextStyle(fontWeight: FontWeight.bold,
fontSize: 20,color: Colors.white),
                    )),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
                  Container(
                    height: 100,
                    margin: const EdgeInsets.symmetric(horizontal:
50),
                    decoration: BoxDecoration(
                      borderRadius: BorderRadius.circular(10),
                      color: const Color.fromARGB(255, 255, 255, 255),
                      image: const DecorationImage(
              image: AssetImage("assets/cob.jpg"), // Use provided
image path
              fit: BoxFit.cover, // Ensure image fills the container
            ),
                    ),
                    child: const Center(
                        child: Text(
                      "COBRA STRECH",
                      style:
                          TextStyle(fontWeight: FontWeight.bold,
fontSize: 20,color: Colors.white),
                    )),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
```

Screen Shots







- Enter email
- ******* Enter password
- ••• Confirm password

SignUp

Already have an account? Login

Enter name

Next

