

SRI RAMACHANDRA ENGINEERING AND TECHNOLOGY

FLUTTER APPLICATION (FITNESS APP)

CONTINOUS ASSESSMENT 4 REPORT

Quarter IV (Year 2)

Submitted by

SHRIRAM K P

E0219007

In partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

(Cyber Security and IOT)

Sri Ramachandra Engineering

and Technology

Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai -600116

MAY, 2021

ABSTRACT Fitness Application made through flutter (dart) programming language . As health is concerned doing exercise is essential thing which is main theme of this application. Both home and gym workouts are programmed inside the application . So that user can benefited through following the steps and guidance it provides.

PROBLEM STATEMENT				
To develop a fitness application with different types of workouts both for home and gym purposes .				

PROPOSED WORK

PROPOSED WORK					
 First planned for the design and came up with a Then designed the home page which has home And designed page for gym workout with cards Finally added BMI calculator to the application 	workouts and different fonts				

SAMPLE CODE

HOME SCREEN.DART:

```
import 'dart:convert';
import 'package:fitness_kpdesign/gymwork/mainfile.dart';
import 'package:fitness kpdesign/bmi/input page.dart';
import 'package:fitness kpdesign/screens/exercise.dart';
import 'package:fitness kpdesign/screens/exercise start.dart';
import 'package:fitness kpdesign/screens/exercises creen.dart';
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
class HomeWork extends StatefulWidget {
 @override
 _HomePageState createState() => _HomePageState();
}
class _HomePageState extends State<HomeWork> {
 final String apiURI =
   "https://jsonstorage.net/api/items/584565a7-518b-4004-b0a0-f318aa4fe9bc";
 Exercise exercise;
 @override
 void initState() {
  getExercises();
  super.initState();
 }
 void getExercises() async {
```

```
var response = await http.get(apiURI);
var body = response.body;
var decodejson = jsonDecode(body);
exercise = Exercise.fromJson(decodejson);
setState(() {});
}
@override
Widget build(BuildContext context) {
return Scaffold(
  appBar: AppBar(
   backgroundColor: Colors.indigo,
   elevation: 0,
   title: Text('HOME WORKOUTS', style: TextStyle(
     fontWeight: FontWeight.w500,
     fontFamily: 'DancingScript',
     fontSize: 15
   ),),
   centerTitle: false,
 ),
  body: Center(
   child: Container(
    child: exercise != null
      ? ListView(
     children: exercise.exercises.map((e) {
      return InkWell( //rectangular widget for touch animations
       onTap: () {
        Navigator.push(
```

```
context,
  MaterialPageRoute(
   builder: (context) => ExerciseStartScreen(
    exercises: e,
   ),
  ),
);
},
child: Hero( //for zoomingin which looks like animation
tag: e.id,
 child: Container(
  margin: EdgeInsets.only(left:10.0,right:10.0,top:10.0),
  decoration: BoxDecoration(
   borderRadius: BorderRadius.circular(16),
  ),
  child: Stack(
   children: <Widget>[
    ClipRRect(
     borderRadius: BorderRadius.circular(15),
     child: FadeInImage(
      image: NetworkImage(e.thumbnail),
      placeholder:
      AssetImage("assets/placeholder.jpg"),
      width: MediaQuery.of(context).size.width,
      height: 250.0,
      fit: BoxFit.cover,
```

```
),
),
ClipRRect(
 borderRadius: BorderRadius.circular(16),
 child: Container(
  width: MediaQuery.of(context).size.width,
  height: 250.0,
  decoration: BoxDecoration(
   gradient: LinearGradient(
    colors: [
     Color(0xFF00000),
     Color(0xFF00000),
    ],
    begin: Alignment.bottomCenter,
    end: Alignment.center,
   ),
  ),
 ),
),
Container( //opening another container for text
 height: 250,
 margin:
 EdgeInsets.only(right: 10.0),
 alignment: Alignment.bottomRight,
 child: Text(
  e.title,
  style: TextStyle(
   fontWeight: FontWeight.w800,
```

```
fontSize: 20.0,
             fontFamily: 'SpaceMono',
             shadows: [
              Shadow(
                blurRadius: 10.0,
                color: Colors.black,
                offset: Offset(5.0, 5.0),
              ),
             ],
             color: Colors.white,
            ),
           ),
          ),
         ],
       ),
      ),
     ),
    );
   }).toList(),
    : CircularProgressIndicator(), //else condition if exercise is null
 ),
),
drawer: Drawer( //for side button
 child: ListView(
  padding: EdgeInsets.zero,
  children: <Widget>[
   DrawerHeader(
```

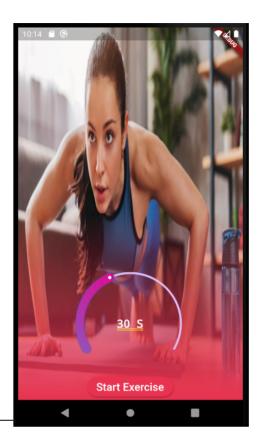
```
decoration: BoxDecoration(
        color: Colors.black,
       ),
       child: Image.asset("assets/sideimg2.jpg",fit:BoxFit.cover,),
      ),
      // ListTile(
      // leading: Icon(Icons.accessibility_new),
      // title: Text("Home Workout"),
      // onTap: () {
      // Navigator.push(context,MaterialPageRoute(builder:(context){return
HomePage();},),);
      // },
      //),
      ListTile(
       leading: Icon(Icons.airline_seat_recline_extra),
       title: Text("Gym Workouts"), //,textAlign: TextAlign.center,
       onTap: () {
        Navigator.pushAndRemoveUntil(
         context,
         MaterialPageRoute(builder: (BuildContext context) => GymWork()),
         ModalRoute.withName('/'),
        );
       },
      ),
      ListTile(
       leading: Icon(Icons.equalizer),
       title: Text("BMI Calculator"),
       onTap: (){
```

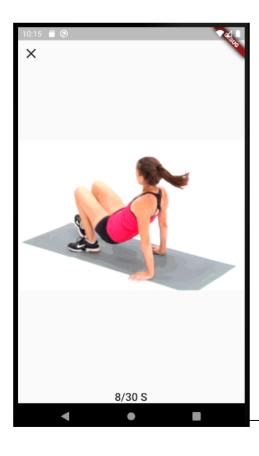
```
Navigator.push(context, Material Page Route (builder: (context) { return
BmiPage();},),);
        },
       )
     ],
   ),
  );
}
}
```

SAMPLE OUTPUT

HOME PAGE:



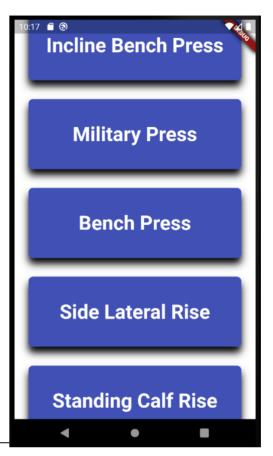


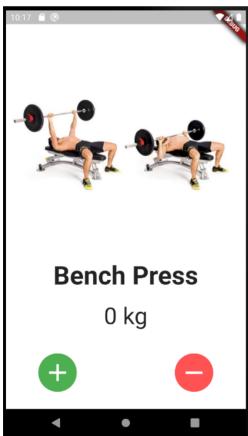


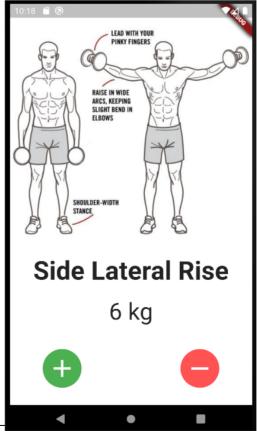


GYM WORKOUTS:









BMI CALCULATOR:



