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Topic - As a Learn a technology in 5 minutes app users I need to see a list of technologies and by selecting one I need to see more details on the Technology

My part – Course Management (A User can see list of courses and by choosing one he/she can view all the details about course, An admin can see added courses, edit course details and can delete course details.)

NOTE: I have copied my dart code below. It's not screenshots. Because of the dark theme, it looks like a screenshots.

course_splash.dart

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

void main() {
  runApp(CourseMainScreen());
}

class CourseMainScreen extends StatelessWidget {
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      theme: ThemeData(
        fontFamily: 'Avenir'
      ),
      home: MyHomePage(),
      routes: {
        '/courses-page' : (context)=>CoursesPage(),
      },
    );
  }
}

class MyHomePage extends StatefulWidget {
  @override
  _MyHomePageState createState() => _MyHomePageState();
}
```

```
}

class _MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Color(0xfffff5954),
      body: Column(
        mainAxisAlignment: MainAxisAlignment.end,
        crossAxisAlignment: CrossAxisAlignment.start,
        children: <Widget>[
          Container(
            padding: EdgeInsets.only(left: 30),
            child: Column(
              crossAxisAlignment: CrossAxisAlignment.start,
              children: <Widget>[
                Container(
                  child: Text("It's not that", style: TextStyle(
                    color: Colors.white,
                    fontSize: 40,
                    fontWeight: FontWeight.w900,
                    height: 1
                  )),
                ),
                Container(
                  child: Text("we use", style: TextStyle(
                    color: Colors.white,
                    fontSize: 40,
                    fontWeight: FontWeight.w500,
                    height: 1
                  )),
                ),
                Container(
                  child: Text("TECHNOLOGY,", style: TextStyle(
                    color: Colors.white,
                    fontSize: 40,
                    fontWeight: FontWeight.w900,
                    height: 1
                  )),
                ),
                Container(
                  child: Text("we live", style: TextStyle(
                    color: Colors.white,
                    fontSize: 40,
```

```

        fontWeight: FontWeight.w500,
        height: 1
      ),),
    ),
    Container(
      child: Text("TECHNOLOGY", style: TextStyle(
        color: Colors.white,
        fontSize: 40,
        fontWeight: FontWeight.w900,
        height: 1
      ),),
    ),
  ],
),
),
Stack(
  children: <Widget>[
    Container(
      alignment: Alignment.bottomCenter,
      height: MediaQuery.of(context).size.height*0.6,
      width: MediaQuery.of(context).size.width,
      decoration: BoxDecoration(
        image: DecorationImage(
          image: AssetImage('assets/images/splash.png'),
          fit: BoxFit.cover
        )
      ),
    ),
    Positioned(
      bottom: 50,
      left: 0,
      right: 0,
      child: Center(
        child: InkWell(
          onTap: (){openCoursesPage();},
          child: Container(
            padding: EdgeInsets.symmetric(horizontal: 50, vertical:
15),

            decoration: BoxDecoration(
              color: Colors.white,
              borderRadius: BorderRadius.all(Radius.circular(40)),
            ),
            child: Text('View Courses..', style: TextStyle(
              fontSize: 20,

```

```
fontWeight: FontWeight.w700
    ),),
  ),
),
),
)
],
)
],
),
);
}
void openCoursesPage()
{
  Navigator.pushNamed(context, '/courses-page');
}
```

course_list.dart

```
import 'package:course_app/pages/courses/admin_login.dart';
import 'package:course_app/pages/courses/details_screen.dart';
import 'package:course_app/pages/courses/model/category.dart';
import 'package:course_app/pages/courses/constants.dart';
import 'package:flutter/material.dart';
import 'package:flutter_staggered_grid_view/flutter_staggered_grid_view.dart';
import 'package:flutter_svg/flutter_svg.dart';

void main() => runApp(CoursesPage());

class CoursesPage extends StatelessWidget {
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Course App',
      theme: ThemeData(),
      home: HomeScreen(),
      routes: {
        '/courses-page': (context) => CoursesPage(),
      },
    );
  }
}
```

```
}  
}  
  
class HomeScreen extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      body: Padding(  
        padding: EdgeInsets.only(left: 20, top: 50, right: 20),  
        child: Column(  
          crossAxisAlignment: CrossAxisAlignment.start,  
          children: <Widget>[  
            Row(  
              mainAxisAlignment: MainAxisAlignment.spaceBetween,  
              children: <Widget>[  
                OutlinedButton(  
                  onPressed: () {  
                    Navigator.push(  
                      context,  
                      MaterialPageRoute(  
                        builder: (context) => AdminLogin(),  
                      ),  
                    );  
                  },  
                  child: Text("Admin Login"),  
                  style: OutlinedButton.styleFrom(  
                    textStyle: TextStyle(  
                      fontSize: 12,  
                      fontFamily: "Poppins",  
                      fontWeight: FontWeight.w600,  
                      color: kTextColor.withOpacity(.5)),  
                  )),  
                Container(  
                  height: 30,  
                  width: 30,  
                  decoration: BoxDecoration(  
                    shape: BoxShape.circle,  
                    image: DecorationImage(  
                      image: AssetImage('assets/images/profilePic.png')),  
                  )  
                ),  
              ],  
            ),  
            SizedBox(height: 30),  
            Text("Search courses to study...", style: kHeadingextStyle),  
          ],  
        ),  
      ),  
    );  
  }  
}
```

```
Container(  
  margin: EdgeInsets.symmetric(vertical: 30),  
  padding: EdgeInsets.symmetric(horizontal: 20, vertical: 16),  
  height: 60,  
  width: double.infinity,  
  decoration: BoxDecoration(  
    color: Color(0xFFF5F5F7),  
    borderRadius: BorderRadius.circular(40),  
  ),  
  child: Row(  
    children: <Widget>[  
      SvgPicture.asset("assets/icons/search.svg"),  
      SizedBox(width: 16), //search box size  
      Text(  
        "Search courses",  
        style: TextStyle(  
          fontSize: 18,  
          color: Color(0xFFA0A5BD),  
        ),  
      ),  
    ],  
  ),  
,  
,  
),  
Row(  
  mainAxisAlignment: MainAxisAlignment.spaceBetween,  
  children: <Widget>[  
    Text("Category", style: kTitleTextStyle),  
    Text(  
      "See All",  
      style: kSubTitleTextSyule.copyWith(color: kBlueColor),  
    ),  
  ],  
,  
),  
SizedBox(height: 30),  
Expanded(  
  child: StaggeredGridView.countBuilder(  
    padding: EdgeInsets.all(0),  
    crossAxisCount: 2,  
    itemCount: categories.length,  
    crossAxisSpacing: 20,  
    mainAxisSpacing: 20,  
    itemBuilder: (context, index) {  
      return GestureDetector(  
        onTap: () {
```

```
Navigator.push(
  context,
  MaterialPageRoute(
    builder: (context) => DetailsScreen(),
  ),
);
},
child: Container(
  padding: EdgeInsets.all(20),
  height: index.isEven ? 200 : 240,
  decoration: BoxDecoration(
    borderRadius: BorderRadius.circular(16),
    image: DecorationImage(
      image: AssetImage(categories[index].image),
      fit: BoxFit.fill,
    ),
  ),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: <Widget>[
      Text(
        categories[index].name,
        style: kTitleTextStyle,
      ),
      Text(
        '${categories[index].numOfCourses} Courses',
        style: TextStyle(
          color: kTextColor.withOpacity(.5),
        ),
      ),
    ],
  ),
);
},
staggeredTileBuilder: (index) => StaggeredTile.fit(1),
),
),
],
),
),
);
}
```

details_screen.dart

```
import 'package:course_app/pages/courses/constants.dart';
import 'package:flutter/material.dart';
import 'package:flutter_svg/flutter_svg.dart';

import '../common/custom_colors.dart';

class DetailsScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Course Details"),
        backgroundColor: CustomColors.app_primary,
      ),
      body: Container(
        width: double.infinity,
        decoration: BoxDecoration(
          color: Color(0xFFF5F4EF),
          image: DecorationImage(
            image: AssetImage("assets/images/ux_big.png"),
            alignment: Alignment.topRight,
          ),
        ),
        child: Column(
          children: <Widget>[
            Padding(
              padding: EdgeInsets.only(left: 20, top: 50, right: 20),
              child: Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: <Widget>[
                  Row(
                    mainAxisAlignment: MainAxisAlignment.spaceBetween,
                    children: <Widget>[
                      SvgPicture.asset("assets/icons/arrow-left.svg"),
                      SvgPicture.asset("assets/icons/more-vertical.svg"),
                    ],
                  ),
                  SizedBox(height: 30),
                  ClipPath(
                    clipper: BestSellerClipper(),
                    child: Container(
                      color: kBestSellerColor,
```



```
),
  SizedBox(height: 60),
  Expanded(
    child: Container(
      width: double.infinity,
      decoration: BoxDecoration(
        borderRadius: BorderRadius.circular(50),
        color: Colors.white,
      ),
    ),
    child: Stack(
      children: <Widget>[
        Padding(
          padding: const EdgeInsets.all(30),
          child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: <Widget>[
              Text("Course Content", style: kTitleTextStyle),
              SizedBox(height: 30),
              CourseContent(
                number: "01",
                duration: 5.35,
                title: "What is Flutter",
                isDone: true,
              ),
              CourseContent(
                number: '02',
                duration: 19.04,
                title: "Flutter windows setup",
                isDone: true,
              ),
              CourseContent(
                number: '03',
                duration: 15.35,
                title: "Dart basics",
              ),
              CourseContent(
                number: '04',
                duration: 60.45,
                title: "Sample project",
              ),
            ],
          ),
        ),
      ],
    ),
  ),
  Positioned(
```

```
right: 0,
left: 0,
bottom: 0,
child: Container(
  padding: EdgeInsets.all(20),
  height: 100,
  width: double.infinity,
  decoration: BoxDecoration(
    color: Colors.white,
    borderRadius: BorderRadius.circular(40),
    boxShadow: [
      BoxShadow(
        offset: Offset(0, 4),
        blurRadius: 50,
        color: kTextColor.withOpacity(.1),
      ),
    ],
  ),
  child: Row(
    children: <Widget>[
      Container(
        padding: EdgeInsets.all(14),
        height: 56,
        width: 80,
        decoration: BoxDecoration(
          color: Color(0xFFFFFEDEE),
          borderRadius: BorderRadius.circular(40),
        ),
        child: SvgPicture.asset(
          "assets/icons/shopping-bag.svg"),
      ),
      SizedBox(width: 20),
      Expanded(
        child: Container(
          alignment: Alignment.center,
          height: 56,
          decoration: BoxDecoration(
            borderRadius: BorderRadius.circular(40),
            color: kBlueColor,
          ),
        ),
        child: Text(
          "Pay Now",
          style: kSubtitleTextSyule.copyWith(
            color: Colors.white,
```

```
fontWeight: FontWeight.bold,
```

```
class CourseContent extends StatelessWidget {
  final String number;
  final double duration;
  final String title;
  final bool isDone;
  const CourseContent({
    Key? key,
    required this.number,
    required this.duration,
    required this.title,
    this.isDone = false,
  }) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Padding(
      padding: const EdgeInsets.only(bottom: 30),
      child: Row(
        children: <Widget>[
          Text(
            number,
            style: kHeadingextStyle.copyWith(
              color: kTextColor.withOpacity(.15),
              fontSize: 32,
```

```
    ),
  ),
  SizedBox(width: 8),
  RichText(
    text: TextSpan(
      children: [
        TextSpan(
          text: "$duration mins\n",
          style: TextStyle(
            color: kTextColor.withOpacity(.5),
            fontSize: 18,
          ),
        ),
        TextSpan(
          text: title,
          style: kSubtitleTextSyule.copyWith(
            fontWeight: FontWeight.w600,
            height: 1.5,
          ),
        ),
      ],
    ),
  ),
  Spacer(),
  Container(
    margin: EdgeInsets.only(left: 20),
    height: 40,
    width: 40,
    decoration: BoxDecoration(
      shape: BoxShape.circle,
      color: kGreenColor.withOpacity(isDone ? 1 : .5),
    ),
    child: Icon(Icons.play_arrow, color: Colors.white),
  )
],
),
);
}
}

class BestsellerClipper extends CustomClipper<Path> {
  @override
  getClip(Size size) {
    var path = Path();
```

```
path.lineTo(size.width - 20, 0);
path.lineTo(size.width, size.height / 2);
path.lineTo(size.width - 20, size.height);
path.lineTo(0, size.height);
path.lineTo(0, 0);
path.close();
return path;
}

@override
bool shouldReclip(CustomClipper oldClipper) {
  return false;
}
}
```

admin_login.dart

```
import 'package:flutter/material.dart';
import 'package:course_app/common/custom_colors.dart';
import 'package:fluttertoast/fluttertoast.dart';
import 'admin_course_add.dart';

class AdminLogin extends StatefulWidget {
  @override
  _AdminLoginWidgetState createState() => _AdminLoginWidgetState();
}

class _AdminLoginWidgetState extends State<AdminLogin> {
  void _showToastMsg() {
    Fluttertoast.showToast(
      msg: "Login Successfull",
      fontSize: 12,
    );
  }

  @override
  Widget build(BuildContext context) {
    return new Scaffold(
      body: new Column(
        children: <Widget>[
          Container(
            height: 269,
            width: MediaQuery.of(context).size.width,
```

```
decoration: BoxDecoration(
  color: CustomColors.app_primary,
  borderRadius: BorderRadius.only(
    bottomLeft: Radius.circular(160),
    bottomRight: Radius.circular(240))),
child: Center(
  child: Text("Welcome",
    style: TextStyle(
      fontSize: 40,
      fontFamily: "Poppins",
      fontWeight: FontWeight.w700,
      color: Color.fromRGB(255, 255, 255, 1),
      height: 1)),
),
),

new ListTile(
  contentPadding: EdgeInsets.fromLTRB(50, 20, 50, 0),
  title: new TextFormField(
    maxLength: 20,
    decoration: InputDecoration(
      labelText: 'User Name',
      hintText: 'Enter user name',
      labelStyle: TextStyle(
        color: CustomColors.blackDark1TextColor,
        fontFamily: "Poppins",
        fontWeight: FontWeight.w200,
      ),
      enabledBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Color(0xFF6200EE)),
      ),
    ),
  ),
),
new ListTile(
  contentPadding: EdgeInsets.fromLTRB(50, 20, 50, 0),
  title: new TextFormField(
    autofocus: false,
    obscureText: true,
    maxLength: 20,
    decoration: InputDecoration(
      labelText: 'Password',
      hintText: ' ***** ',
      labelStyle: TextStyle(
        color: CustomColors.blackDark1TextColor,
```

```
        fontFamily: "Poppins",
        fontWeight: FontWeight.w200,
      ),
      enabledBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Color(0xFF6200EE)),
      ),
    )),
  ),
  Positioned(
    top: 350,
    left: 55,
    child: ElevatedButton(
      onPressed: () {
        Navigator.push(
          context,
          MaterialPageRoute(
            builder: (context) => AdminCourseAdd(),
          ),
        );
        _showToastMsg();
      },
      style: ButtonStyle(
        fixedSize: MaterialStateProperty.all(Size(303, 50)),
        backgroundColor: MaterialStateProperty.all(
          Color.fromRGBO(93, 95, 239, 1)),
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
          RoundedRectangleBorder(
            borderRadius: BorderRadius.circular(10.0),
          )),
      ),
      child: Text(
        'Login',
        textAlign: TextAlign.center,
        style: TextStyle(
          color: Color.fromRGBO(255, 255, 255, 1),
          fontFamily: 'Poppins',
          fontSize: 20,
          letterSpacing:
            0 /*percentages not used in flutter. defaulting to
zero*/,
          fontWeight: FontWeight.normal,
          height: 1),
      )),
    Expanded(
```



```
        child: Stack(
          children: [
            Positioned(
              bottom: -106,
              right: -106,
              child: Container(
                height: 212,
                width: 212,
                decoration: BoxDecoration(
                  color: CustomColors.app_primary,
                  borderRadius: BorderRadius.circular(106)),
              ),
            ),
          ],
        )),
      ],
    ),
  );
}
```

admin_course_add.dart

```
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:course_app/common/custom_colors.dart';
import 'package:flutter/material.dart';
import 'admin_courses_list.dart';

class AdminCourseAdd extends StatefulWidget {
  AdminCourseAdd({Key? key}) : super(key: key);

  @override
  _AdminCourseAddState createState() => _AdminCourseAddState();
}

class _AdminCourseAddState extends State<AdminCourseAdd> {
  final _formKey = GlobalKey<FormState>();
  final double _headerHeight = 250;

  var cname = "";
  var courses = "";
  var fee = "";
  var time = "";
```

```
bool checkedValue = false;
bool checkboxValue = false;
// Create a text controller and use it to retrieve the current value
// of the TextField.
final cnameController = TextEditingController();
final coursesController = TextEditingController();
final feeController = TextEditingController();
final timeController = TextEditingController();

@override
void dispose() {
  // Clean up the controller when the widget is disposed.
  cnameController.dispose();
  coursesController.dispose();
  feeController.dispose();
  timeController.dispose();
  super.dispose();
}

clearText() {
  cnameController.clear();
  coursesController.clear();
  feeController.clear();
  timeController.clear();
}

// Adding Student
CollectionReference students =
  FirebaseFirestore.instance.collection('courses');

Future<void> addUser() {
  return students
    .add({'cname': cname, 'courses': courses, 'fee': fee, 'time': time})
    .then((value) => print('Course Added'))
    .catchError((error) => print('Failed to Add user: $error'));
}

void showAlertDialog(BuildContext context) => showDialog(context: context,
  builder: (BuildContext context) {
    return AlertDialog(
      title: const Text('Success'),
      content: const Text('New course successfully added'),
      // ignore: deprecated_member_use
```

```
        actions: [OutlineButton(onPressed: () => Navigator.of(context).pop(), child:
const Text('Close'))]);
    },
  );

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text("Add Courses"),
      backgroundColor: CustomColors.app_primary,
    ),
    backgroundColor: Colors.white,
    body: SingleChildScrollView(
      child: Stack(
        children: [
          Container(
            height: _headerHeight,
          ),
          Container(
            margin: EdgeInsets.fromLTRB(25, 50, 25, 10),
            padding: EdgeInsets.fromLTRB(10, 0, 10, 0),
            alignment: Alignment.center,
            child: Column(
              children: [
                Form(
                  key: _formKey,
                  child: Column(
                    children: [
                      Container(
                        child: TextFormField(
                          controller: cnameController,
                          autofocus: false,
                          decoration: InputDecoration(
                            labelText: 'Course Name',
                            hintText: 'Enter course name',
                          ),
                        ),
                      validator: (value) {
                        if (value == null || value.isEmpty) {
                          return 'Please Enter Course Name';
                        }
                        return null;
                      },
                    ],
                  ),
                ),
              ],
            ),
          ),
        ],
      ),
    ),
  ),
);
```

```
const SizedBox(  
  height: 30,  
)  
,  
  
Container(  
  child: TextFormField(  
    controller: coursesController,  
    autofocus: false,  
    decoration: InputDecoration(  
      labelText: 'Number of courses',  
      hintText: 'Enter number of courses',  
    ),  
    keyboardType: TextInputType.phone,  
    validator: (value) {  
      if (value == null || value.isEmpty) {  
        return 'Please Enter Number Of Courses';  
      }  
      return null;  
    },  
  ),  
)  
),  
SizedBox(height: 20.0),  
Container(  
  child: TextFormField(  
    controller: feeController,  
    autofocus: false,  
    decoration: InputDecoration(  
      labelText: 'Course Fee',  
      hintText: 'Enter course fee',  
    ),  
    validator: (value) {  
      if (value == null || value.isEmpty) {  
        return 'Please Enter Course Fee';  
      }  
      return null;  
    },  
  ),  
)  
),  
const SizedBox(  
  height: 30,  
)  
,  
Container(  
  child: TextFormField(  
    controller: timeController,  
    autofocus: false,  
    decoration: InputDecoration(  

```

```
        labelText: 'Full Course Time',
        hintText: 'Enter full course time',
      ),
      validator: (value) {
        if (value == null || value.isEmpty) {
          return 'Please Enter Full Course Time';
        }
        return null;
      })),
    ),
    const SizedBox(
      height: 30,
    ),
    Container(
      child: ElevatedButton(
        style: ButtonStyle(
          fixedSize:
            MaterialStateProperty.all(Size(303, 50)),
          backgroundColor: MaterialStateProperty.all(
            Color.fromRGBO(93, 95, 239, 1)),
          shape: MaterialStateProperty.all<
            RoundedRectangleBorder>(
              RoundedRectangleBorder(
                borderRadius: BorderRadius.circular(10.0),
              )),
        ),
        child: Text(
          'Add Course',
          textAlign: TextAlign.center,
          style: TextStyle(
            color: Color.fromRGBO(255, 255, 255, 1),
            fontFamily: 'Poppins',
            fontSize: 20,
            letterSpacing:
              0 /*percentages not used in flutter.
defaulting to zero*/,
            fontWeight: FontWeight.normal,
            height: 1),
        ),
        onPressed: () {
          if (_formKey.currentState!.validate()) {
            Navigator.of(context).pushAndRemoveUntil(
              MaterialPageRoute(
                builder: (context) =>
                  AdminCourseList()),
```

```

        (Route<dynamic> route) => false);
    setState(() {
      cname = cnameController.text;
      courses = coursesController.text;
      fee = feeController.text;
      time = timeController.text;
      addUser();
      showAlertDialog(context);
      clearText();
    });
  },
),
),
],
),
),
],
),
),
],
),
),
);
}
}

```

admin_courses_list.dart

```

import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:flutter/material.dart';
import '../common/custom_colors.dart';
import 'edit_courses_admin.dart';

void main() async {
  WidgetsFlutterBinding.ensureInitialized();
  await Firebase.initializeApp();
  runApp(AdminCourseList());
}

class AdminCourseList extends StatefulWidget {
  @override
  _ListAdminCoursesPageState createState() => _ListAdminCoursesPageState();
}

```

```
}

class _ListAdminCoursesPageState extends State<AdminCourseList> {
  final Stream<QuerySnapshot> _usersStream =
    FirebaseFirestore.instance.collection('courses').snapshots();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Course List"),
        backgroundColor: CustomColors.app_primary,
      ),
      body: StreamBuilder(
        stream: _usersStream,
        builder: (BuildContext context, AsyncSnapshot<QuerySnapshot> snapshot) {
          if (snapshot.hasError) {
            return Text("something is wrong");
          }
          if (snapshot.connectionState == ConnectionState.waiting) {
            return Center(
              child: CircularProgressIndicator(),
            );
          }

          return Container(
            decoration: BoxDecoration(
              borderRadius: BorderRadius.circular(12),
            ),
            child: ListView.builder(
              itemCount: snapshot.data!.docs.length,
              itemBuilder: (_, index) {
                return GestureDetector(
                  onTap: () {
                    Navigator.pushReplacement(
                      context,
                      MaterialPageRoute(
                        builder: (_) =>
                          AdminCourseEdit(docid: snapshot.data!.docs[index]),
                      ),
                    );
                  },
                ),
              ),
              child: Column(
                children: [
```

```
        SizedBox(
          height: 4,
        ),
        Padding(
          padding: EdgeInsets.only(
            left: 3,
            right: 3,
          ),
          child: ListTile(
            shape: RoundedRectangleBorder(
              borderRadius: BorderRadius.circular(10),
              side: BorderSide(
                color: Color(0xFF6200EE),
              ),
            ),
            title: Text(
              snapshot.data!.docChanges[index].doc['cname'],
              style: TextStyle(
                fontSize: 20, fontWeight: FontWeight.bold),
            ),
            subtitle: Text(
              snapshot.data!.docChanges[index].doc['time'],
              style: TextStyle(
                fontSize: 15,
              ),
            ),
            trailing: Row(
              mainAxisAlignment: MainAxisAlignment.min,
              children: [
                IconButton(
                  onPressed: () {
                    Navigator.push(
                      context,
                      MaterialPageRoute(
                        builder: (context) => AdminCourseEdit(
                          docid: snapshot.data!.docs[index]),
                      ),
                    );
                  },
                  icon: const Icon(
                    Icons.delete,
                    color: Colors.red,
                  ),
                ),
                IconButton(
```



```

        onPressed: () {
          Navigator.push(
            context,
            MaterialPageRoute(
              builder: (context) => AdminCourseEdit(
                docid: snapshot.data!.docs[index]),
            ),
          );
        },
        icon: const Icon(
          Icons.edit,
          color: Colors.green,
        )),
      ],
    ),
    contentPadding: EdgeInsets.symmetric(
      vertical: 12,
      horizontal: 16,
    ),
  ),
),
),
],
),
);
},
),
);
},
),
);
}
}

```

edit_courses_admin.dart

```

import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:flutter/material.dart';
import 'package:fluttertoast/fluttertoast.dart';
import '../common/custom_colors.dart';
import 'admin_courses_list.dart';

class AdminCourseEdit extends StatefulWidget {
  DocumentSnapshot docid;

```

```
AdminCourseEdit({required this.docid});

@override
_AdminCourseEditState createState() => _AdminCourseEditState();
}

class _AdminCourseEditState extends State<AdminCourseEdit> {
  TextEditingController title = TextEditingController();
  TextEditingController content = TextEditingController();

  @override
  void initState() {
    title = TextEditingController(text: widget.docid.get('cname'));
    content = TextEditingController(text: widget.docid.get('time'));
    super.initState();
  }

  void _showUpdateToastMsg() {
    Fluttertoast.showToast(
      msg: " Successfully updated",
      fontSize: 12,
    );
  }

  void _showDeleteToastMsg() {
    Fluttertoast.showToast(
      msg: " Successfully deleted",
      fontSize: 12,
    );
  }

  @override
  Widget build(BuildContext context) {

    return Scaffold(
      appBar: AppBar(
        backgroundColor: CustomColors.app_primary,
        actions: [
          MaterialButton(
            onPressed: () {
              widget.docid.reference.update({
                'cname': title.text,
                'time': content.text,
              }).whenComplete(() {
```

```
        Navigator.pushReplacement(context,
            MaterialPageRoute(builder: (_) => AdminCourseList()));
    });
    _showUpdateToastMsg();
  },
  child: Text("Update",
    style: TextStyle(
      fontFamily: "Poppins",
      color: Color.fromRGBO(255, 255, 255, 1),
      height: 1)),
),
MaterialButton(
  onPressed: () {
    widget.docid.reference.delete().whenComplete(() {
      Navigator.pushReplacement(context,
        MaterialPageRoute(builder: (_) => AdminCourseList()));
    });
    _showDeleteToastMsg();
  },
  child: Text("Delete",
    style: TextStyle(
      fontFamily: "Poppins",
      color: Color.fromRGBO(255, 255, 255, 1),
      height: 1)),
),
],
),
body: Container(
  child: Column(
    children: [
      Container(
        height: 100,
        width: MediaQuery.of(context).size.width,
        decoration: BoxDecoration(
          color: CustomColors.app_primary,
          borderRadius: BorderRadius.only(
            bottomLeft: Radius.circular(160),
            bottomRight: Radius.circular(240))),
        child: Center(
          child: Text("Update/ Delete",
            style: TextStyle(
              fontSize: 40,
              fontFamily: "Poppins",
              fontWeight: FontWeight.w700,
```

```
        color: Color.fromRGBO(255, 255, 255, 1),
        height: 1)),
    ),
  ),
  Container(
    margin: EdgeInsets.fromLTRB(25, 50, 25, 10),
    padding: EdgeInsets.fromLTRB(10, 0, 10, 0),
    alignment: Alignment.center,
    // decoration:
    //   BoxDecoration(borderRadius: BorderRadius.circular(80)),
    child: TextField(
      controller: title,
      decoration: InputDecoration(
        labelText: 'Edit Course Name :',
        hintText: ' Update Course Name ',
        labelStyle: TextStyle(
          color: CustomColors.blackDark1TextColor,
          fontFamily: "Poppins",
          fontSize: 23,
          fontWeight: FontWeight.w600,
        ),
        enabledBorder: UnderlineInputBorder(
          borderSide: BorderSide(color: Color(0xFF6200EE)),
        ),
      ),
    ),
  ),
  Expanded(
    child: Container(
      margin: EdgeInsets.fromLTRB(25, 50, 25, 10),
      padding: EdgeInsets.fromLTRB(10, 0, 10, 0),
      alignment: Alignment.center,
      child: TextField(
        controller: content,
        decoration: InputDecoration(
          hintText: 'Update Course Time',
          labelText: 'Edit Course Time :',
          labelStyle: TextStyle(
            color: CustomColors.blackDark1TextColor,
            fontFamily: "Poppins",
            fontSize: 23,
            fontWeight: FontWeight.w600,
          ),
          enabledBorder: UnderlineInputBorder(
```

```
        borderSide: BorderSide(color: Color(0xFF6200EE)),
      ),
    ),
  ),
),
),

Expanded(
  child: Stack(
    children: [
      Positioned(
        bottom: -106,
        right: -106,
        child: Container(
          height: 212,
          width: 212,
          decoration: BoxDecoration(
            color: CustomColors.app_primary,
            borderRadius: BorderRadius.circular(106)),
        ),
      ),
    ],
  ))
),
),
);
}
```

constants.dart

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

// Colors
const kTextColor = Color(0xFF0D1333);
const kBlueColor = Color(0xFF6E8AFA);
const kBestSellerColor = Color(0xFFFFD073);
const kGreenColor = Color(0xFF49CC96);

// My Text Styles
const kHeadingextStyle = TextStyle(
  fontSize: 28,
```

```
        color: kTextColor,  
        fontWeight: FontWeight.bold,  
    );  
    const kSubheadingTextStyle = TextStyle(  
        fontSize: 24,  
        color: Color(0xFF61688B),  
        height: 2,  
    );  
  
    const kTitleTextStyle = TextStyle(  
        fontSize: 20,  
        color: kTextColor,  
        fontWeight: FontWeight.bold,  
    );  
  
    const kSubtitleTextSyule = TextStyle(  
        fontSize: 18,  
        color: kTextColor,  
    );
```

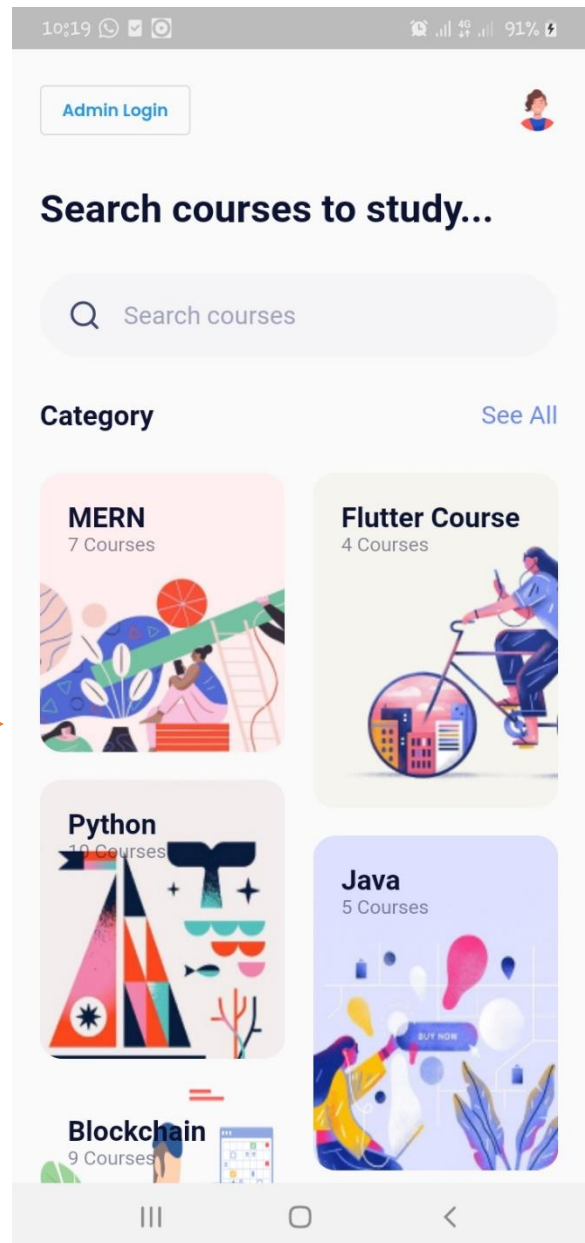
User Interfaces –

Splash Screen



After clicks view courses button courses list screen will open.

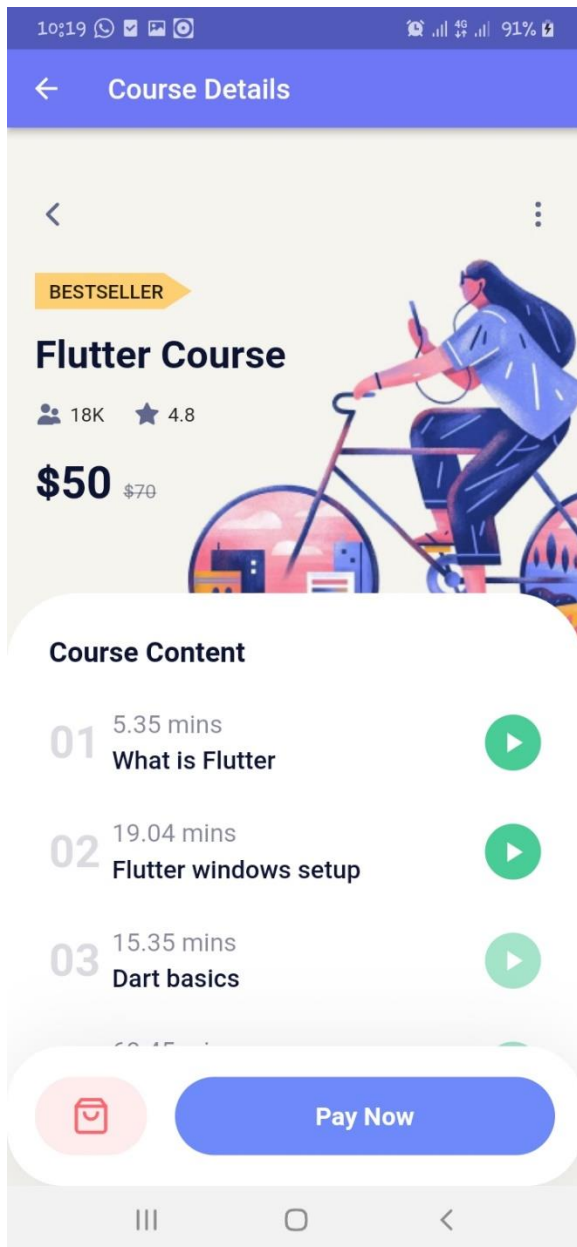
Courses List Screen



After clicks Flutter course details of the course list screen will open.

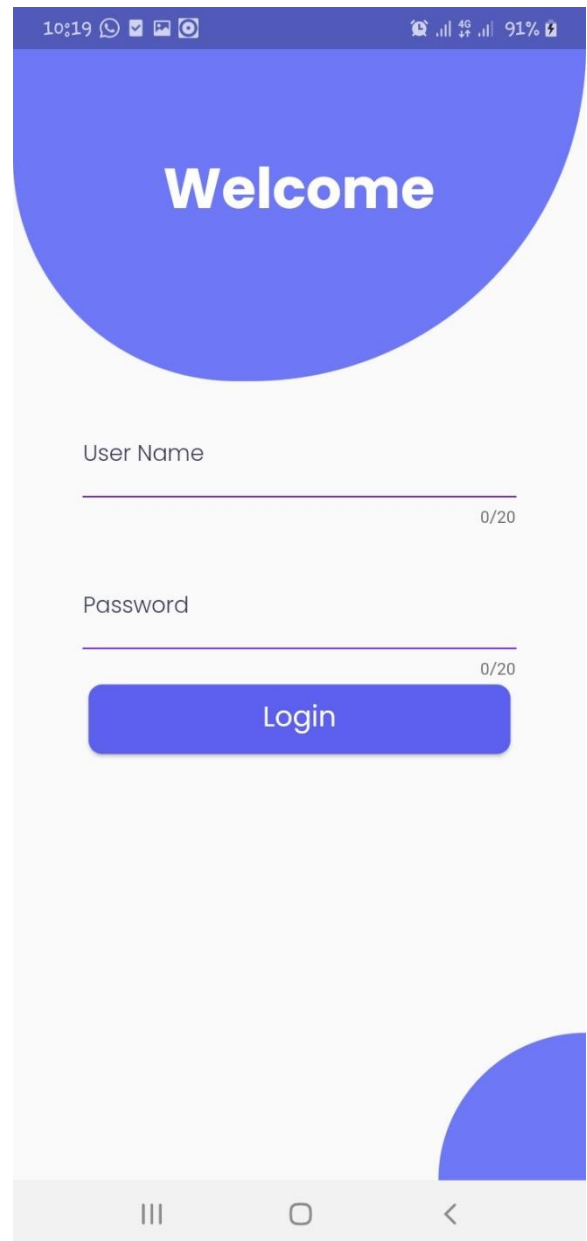
After clicks Admin login button admin login screen will open.

Details Course Screen



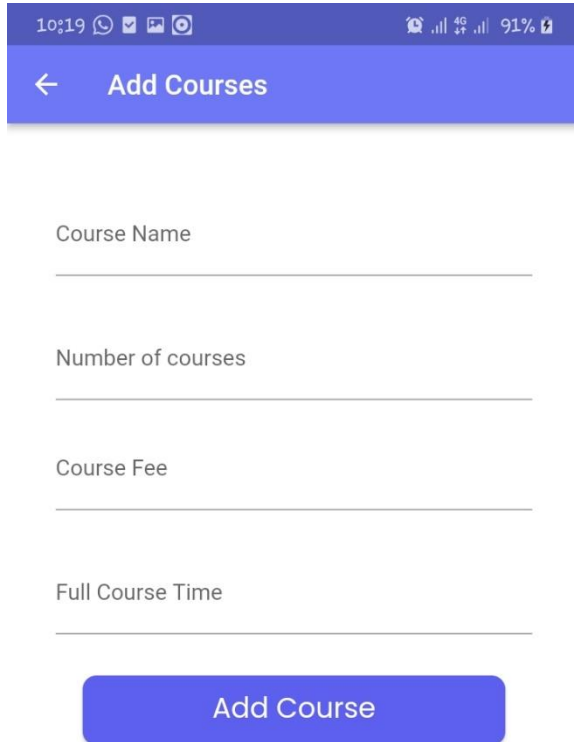
A user can see course contents in this screen.

Admin Login Screen

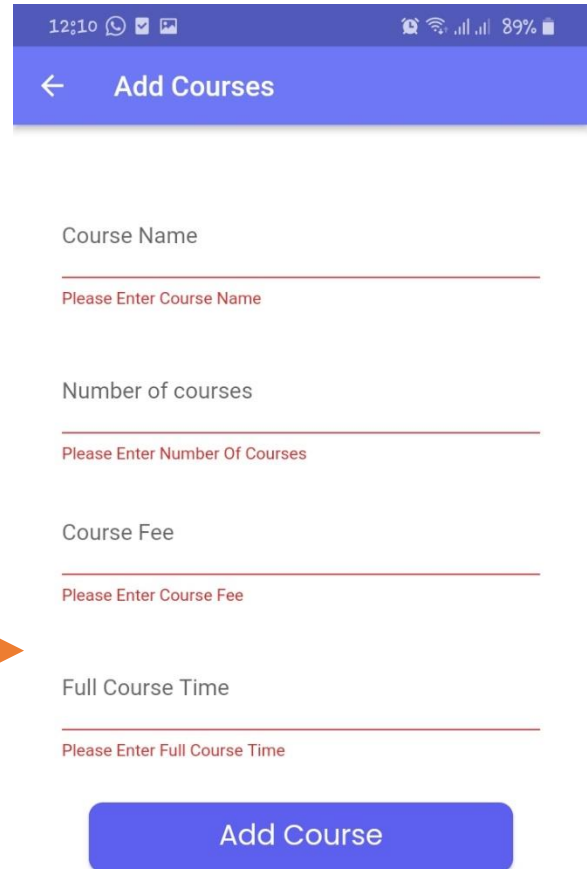


An admin should add valid login credentials for add, edit, delete course details.

Add Course details Screen



Add Course details Screen

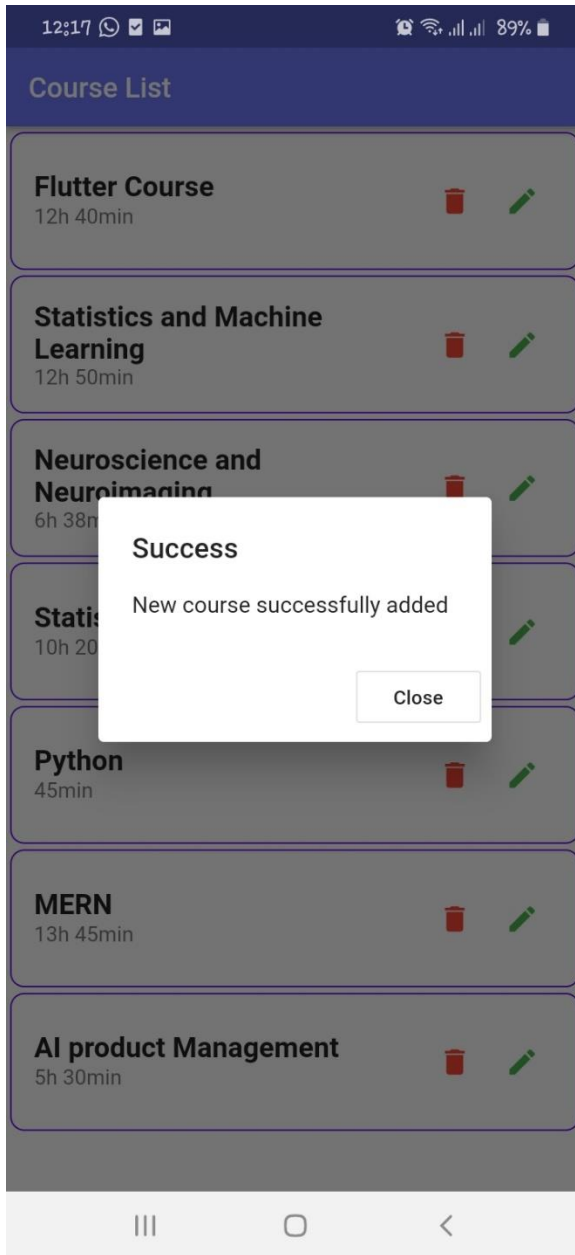


Login Successfull

After enter valid login credentials admin can login to the system for add course details. Successful Toast message can see admin (**Flutter Feature**)

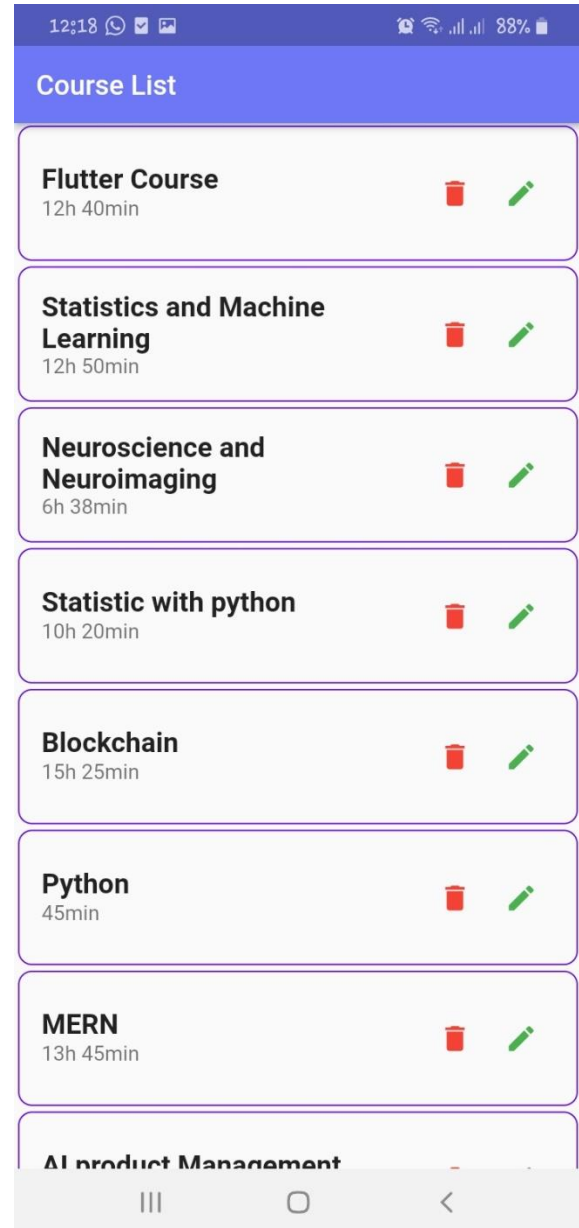
If admin tries to go next page without entering details he/she can see error messages

Successful dialog box



After entering valid course details admin can see successful dialog box. (**Flutter Feature**)

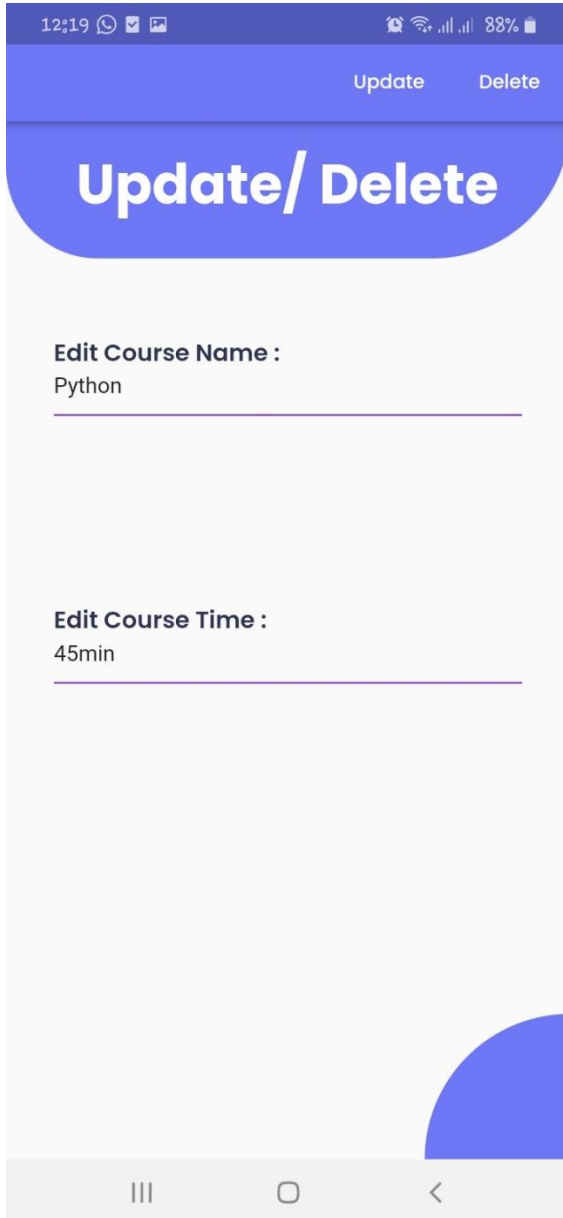
Admin Course List Screen



Admin can see entered course details in here. He/she can update/delete course details by clicking relevant icon.

(Multi- row list – **Flutter Feature**)

Before update course screen



12:19 88%

Update Delete

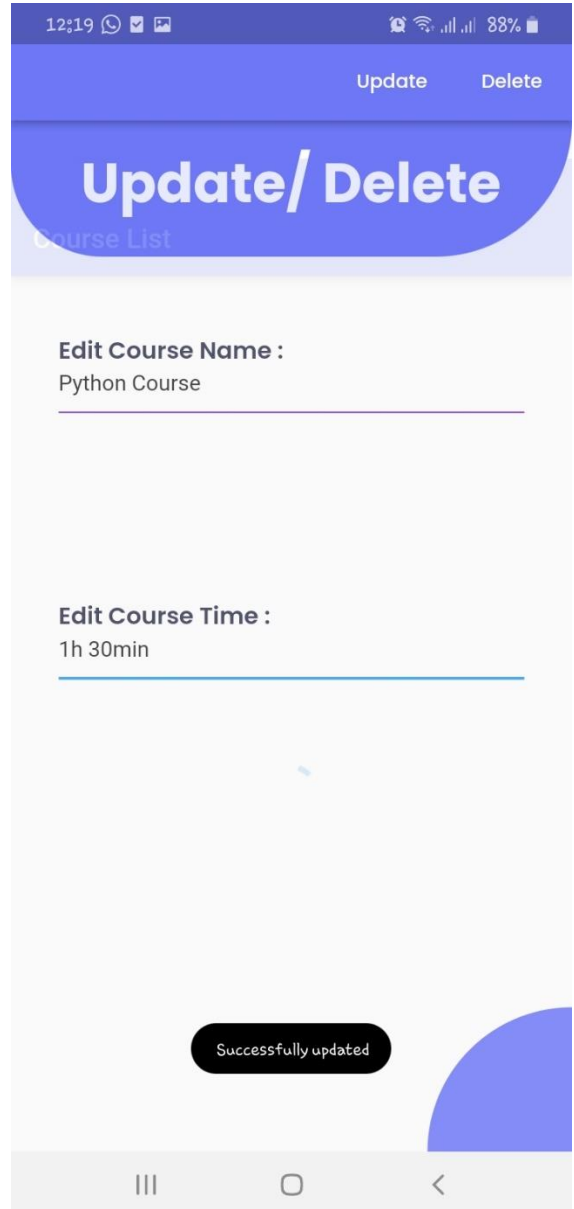
Update/Delete

Course List

Edit Course Name :
Python

Edit Course Time :
45min

Update course screen



12:19 88%

Update Delete

Update/Delete

Course List

Edit Course Name :
Python Course

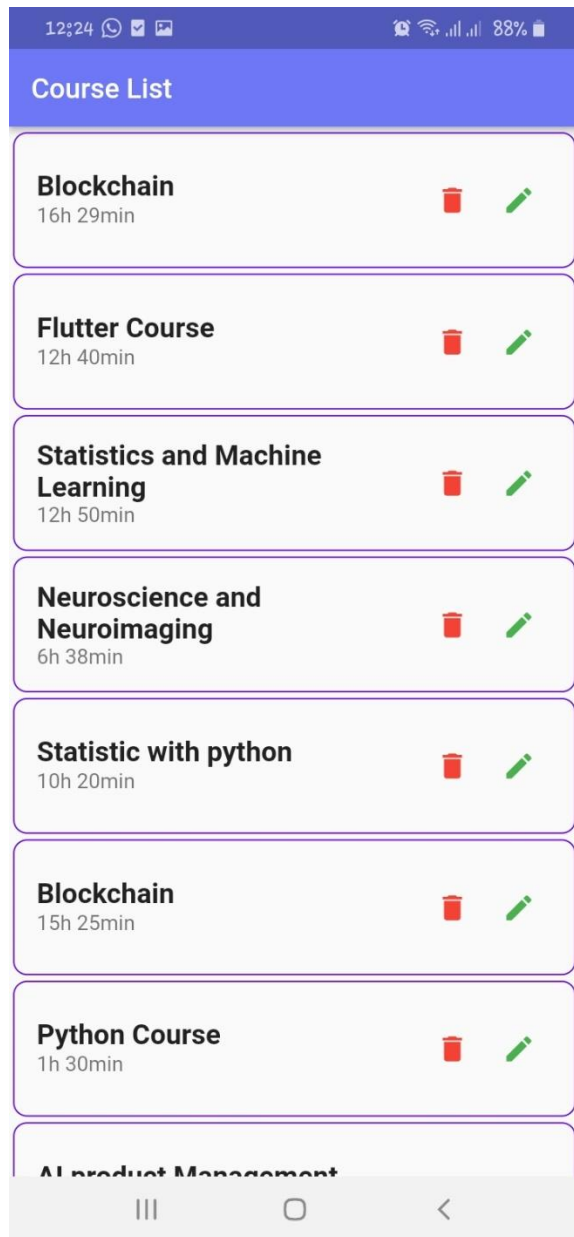
Edit Course Time :
1h 30min

Successfully updated

Before update course screen

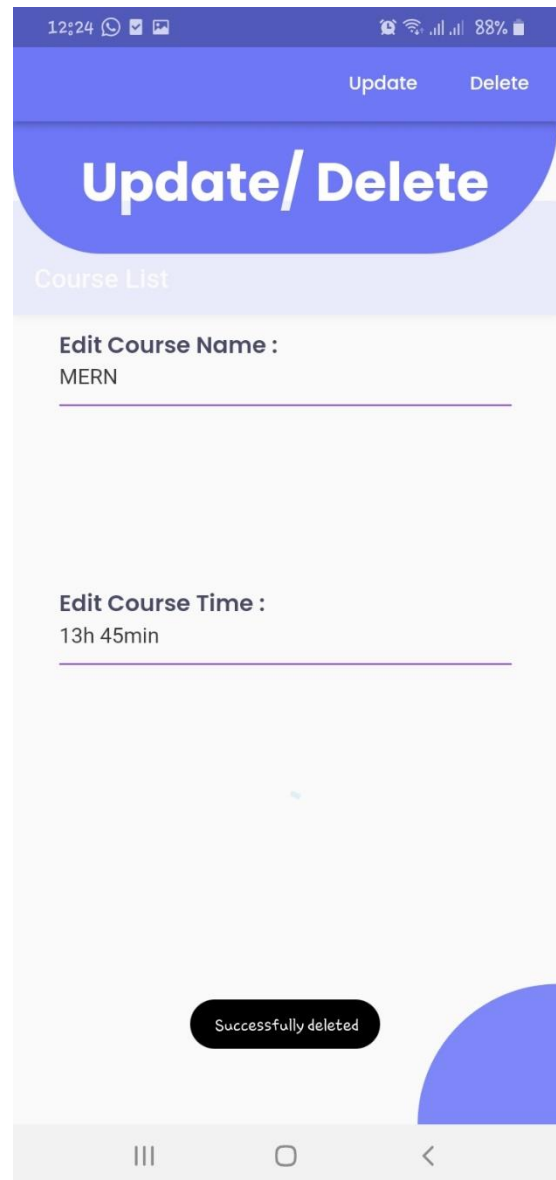
Admin can see updated successful toast message (**Flutter Feature**)

After update course screen



Can see update course detail in here.

Delete course screen



Admin can see deleted successful toast message (**Flutter Feature**)

References -

Flutter documentation -

<https://docs.flutter.dev/>

Get idea about flutter -

<https://www.youtube.com/flutterdev>

For add alert box -

<https://www.youtube.com/watch?v=7yFKO8HCtgg&list=WL&index=1>

Get idea about crud -

<https://www.youtube.com/watch?v=ep0AIELF01o&list=WL&index=3>

Multiple row view –

<https://www.youtube.com/watch?v=k7ttHmpqEs>

Flutter tutorial grid view –

<https://www.youtube.com/watch?v=W6CbCklJFi4>