# PRAKTIKUM #7

#### **Latihan Shared Preferences**

- 1. Buat Project baru : flutter\_shared\_preferences
- 2. Tambahkan dependency di pubspec.yaml

```
dependencies:
   flutter:
    sdk: flutter
   shared_preferences: ^2.2.2
```

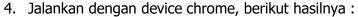
Kemudian jalakan perintah **flutter pub get** untuk mendapatkan package code **shared\_preferences** 

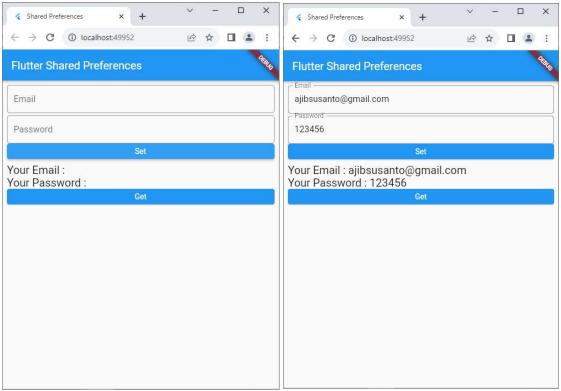
3. Code main.dart

```
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
void main() => runApp(const MyApp());
class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);
 @override
 Widget build(BuildContext context) {
   return MaterialApp(
      title: 'Shared Preferences',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: const MyHomePage(),
    );
  }
class MyHomePage extends StatefulWidget {
  const MyHomePage({Key? key}) : super(key: key);
 @override
 State<MyHomePage> createState() => _MyHomePageState();
class MyHomePageState extends State<MyHomePage> {
 String? email = "";
 String? password = "";
 TextEditingController emailController = TextEditingController();
 TextEditingController passwordController = TextEditingController();
```

```
@override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: const Text('Flutter Shared Preferences')),
      body: ListView(
        padding: const EdgeInsets.all(8.0),
        children: [
          // input email
          TextField(
              controller: emailController,
              decoration: InputDecoration(
                  labelText: "Email",
                  border: OutlineInputBorder(
                      borderRadius: BorderRadius.circular(5.0)))),
          const Padding(padding: EdgeInsets.only(top: 4)),
          // input password
          TextField(
              controller: passwordController,
              decoration: InputDecoration(
                  labelText: "Password",
                  border: OutlineInputBorder(
                      borderRadius: BorderRadius.circular(5.0)))),
          // button untuk menyimpan email dan password ke dalam Shared
Preferences melalui method
          // setIntoSharedPreferences()
          ElevatedButton(
            child: const Text("Set"),
            onPressed: () {
              setIntoSharedPreferences();
           },
          ),
          const Padding(padding: EdgeInsets.only(top: 8)),
          // Menampilkan Email pada Text Widget
          Text(
            "Your Email: $email",
            style: const TextStyle(fontSize: 20),
          ),
          // Menampilkan password pada Text Widget
```

```
Text(
            "Your Password: $password",
            style: const TextStyle(fontSize: 20),
          ),
          // Button yang berfungsi memanggil method getFromSharedPreferences()
untuk menampilkan
          // Email dan Password pada Text Widget
          ElevatedButton(
            child: const Text("Get"),
           onPressed: () {
              getFromSharedPreferences();
           },
         ),
       ],
     ),
   );
  // method ini berfungsi untuk memasukkan data ke dalam SharedPreferences
 void setIntoSharedPreferences() async {
    SharedPreferences prefs = await SharedPreferences.getInstance();
   await prefs.setString("email", emailController.text);
   await prefs.setString("password", passwordController.text);
  }
 // Method ini berfungsi untuk mengambil data Email dan Password dari
SharedPreferences
 // kemudian dimasukkan ke variable email dan password
 void getFromSharedPreferences() async {
    SharedPreferences prefs = await SharedPreferences.getInstance();
    setState(() {
      email = prefs.getString("email");
      password = prefs.getString("password");
   });
```





Isi email dan password, klik **Set**, kemudian klik **Get** untuk mengambil data yang ke simpan.

# **Latihan Splash screen & Dashboard**

- 1. Buat Project baru : estehajib
- 2. Buat folder assets dan tambahkan assets di pubspec.yaml

```
flutter:
   uses-material-design: true
   assets:
   - assets/
```

3. Class main.dart

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

void main() {
   runApp(const MyApp());
}

class MyApp extends StatelessWidget {
   const MyApp({Key? key}) : super(key: key);
   // This widget is the root of your application.
   @override
```

```
Widget build(BuildContext context) {
   return MaterialApp(
     debugShowCheckedModeBanner: false,
     title: 'Aplikasi Es Teh Ajib',
     theme: ThemeData(
        primarySwatch: Colors.blue,
     ),
     home: const SplashScreen(),
   );
}
```

# 5. Class splash\_screen.dart

```
import 'dart:async';
import 'package:estehajib/blank_screen.dart';
import 'package:flutter/material.dart';
class SplashScreen extends StatefulWidget {
  const SplashScreen({Key? key}) : super(key: key);
 @override
  State<SplashScreen> createState() => _SplashScreenState();
class _SplashScreenState extends State<SplashScreen> {
  startSplashScreen() async {
    var duration = const Duration(seconds: 5);
    return Timer(duration, () {
      Navigator.pushReplacement(
          context,
          MaterialPageRoute(builder: (context) => const Blankscreen()));
    });
 @override
 void initState() {
    super.initState();
    startSplashScreen();
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.blueGrey,
      body: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        crossAxisAlignment: CrossAxisAlignment.center,
```

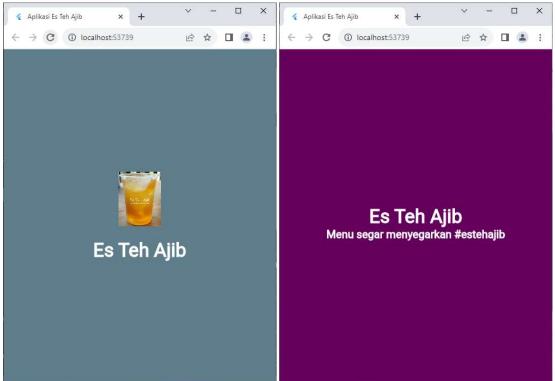
```
children: [
      Center(
        child: Image.asset(
          "Estehajib-Jumbo.jpg",
          width: 200.0,
          height: 100.0,
          fit: BoxFit.contain,
        ),
      ),
      const SizedBox(
        height: 24.0,
      ),
      const Text(
        "Es Teh Ajib",
        style: TextStyle(
          color: Colors.white,
          fontWeight: FontWeight.bold,
          fontSize: 35.0,
        ),
      ),
    ],
 ),
);
```

### 6. Class blank\_screen.dart

```
import 'package:flutter/material.dart';
class Blankscreen extends StatelessWidget {
  const Blankscreen({Key? key}) : super(key: key);
 @override
 Widget build(BuildContext context) {
    return const Scaffold(
      backgroundColor: Color(0xff65005C),
      body: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        crossAxisAlignment: CrossAxisAlignment.center,
        children: [
          Center(
            child: SizedBox(
              height: 24.0,
            ),
          ),
          Text(
```

```
"Es Teh Ajib",
        textAlign: TextAlign.center,
        style: TextStyle(
          color: Colors.white,
          fontWeight: FontWeight.bold,
          fontSize: 35.0,
        ),
      ),
      Text(
        "Menu segar menyegarkan #estehajib",
        textAlign: TextAlign.center,
        style: TextStyle(
          color: Colors.white,
          fontWeight: FontWeight.bold,
          fontSize: 20.0,
        ),
      ),
    ],
 ),
);
```

7. Jalankan dengan device chrome, di bawah ini hasilnya dengan durasi 5 detik splash screen:



# **Latihan JSON**

- 1. Buat Project baru : estehajib
- 2. Buat folder assets dan tambahkan assets di pubspec.yml

```
flutter:
   uses-material-design: true
   assets:
    - assets/
```

3. Buat file book.json di folder assets

4. Buat class BookModel dengan nama book\_model.dart

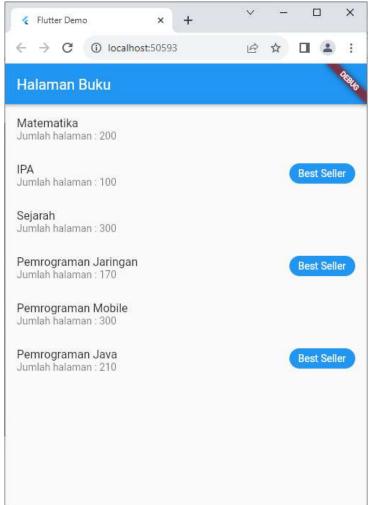
5. Buat class BookService dengan nama book\_services.dart

#### 6. Code class main.dart

```
import 'package:flutter/material.dart';
import 'package:flutter_json/book_model.dart';
import 'package:flutter_json/book_services.dart';
void main() {
  runApp(const MyApp());
class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);
  // This widget is the root of your application.
  @override
 Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        // This is the theme of your application.
        //
        // Try running your application with "flutter run". You'll see the
        // application has a blue toolbar. Then, without quitting the app, try
        // changing the primarySwatch below to Colors.green and then invoke
        // "hot reload" (press "r" in the console where you ran "flutter run",
        // or simply save your changes to "hot reload" in a Flutter IDE).
```

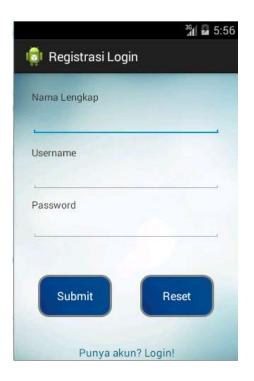
```
// Notice that the counter didn't reset back to zero; the application
        // is not restarted.
        primarySwatch: Colors.blue,
      home: const BookPage(),
    );
  }
class BookPage extends StatefulWidget {
  const BookPage({Key? key}) : super(key: key);
  @override
 State<BookPage> createState() => _BookPageState();
  // BookPageState createState() => BookPageState();
class _BookPageState extends State<BookPage> {
  @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Halaman Buku'),
      body: FutureBuilder<List<BookModel>>(
          future: BookServices.getBooksFromJSON(),
          builder: (context, snapshoot) {
            if (snapshoot.connectionState == ConnectionState.done) {
              return ListView.builder(
                  itemCount: snapshoot.data!.length,
                  itemBuilder: (context, index) {
                    final book = snapshoot.data![index];
                    return ListTile(
                      title: Text(book.judul),
                      subtitle: Text(
                        'Jumlah halaman : ${book.halaman}',
                      ),
                      trailing: book.isBestSeller
                          ? Chip(
                              label: Text(
                                'Best Seller',
                                style: Theme.of(context)
                                    .textTheme
                                    .button!
                                    .copyWith(
                                      color: Colors.white,
```

7. Jalankan dengan device chrome, hasilnya seperti berikut :



### Tugas 1:

Buat Aplikasi Login yang nantinya user dan password akan disimpan di shared preferences, jika user password belum ada makan dapat membuat/create user, jika sudah maka user langsung dapat melakukan Login!



#### Tugas 2:

Buat Aplikasi E-Commerce dengan halaman sebagai berikut :

- a. Splash Screen
- b. Login yang nantinya user dan password akan disimpan di shared preferences, jika user password belum ada makan dapat membuat/create user, jika sudah maka user langsung dapat melakukan Login!
- c. Dashboard menampilkan produk
- d. Detail Produk ditampilkan jika gambar produk di dashboard diklik.