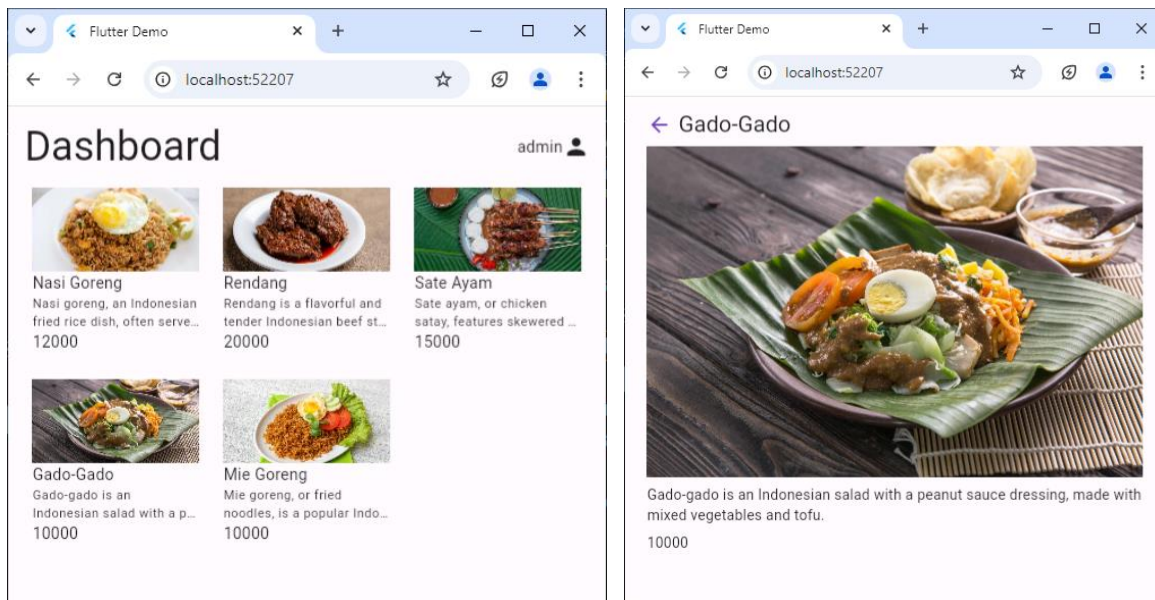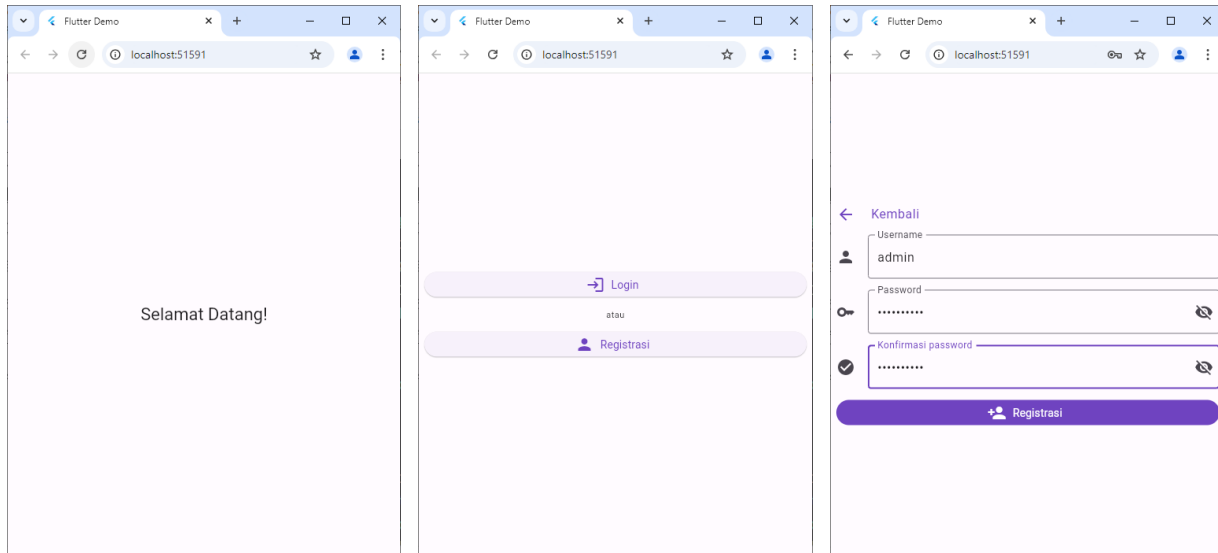## Latihan 7 Tugas 2

Hasil Program:

Code Program:

- data.dart

```dart
class ItemMenu {
  String nama, deskripsi, linkGambar;
  int harga;
  ItemMenu(this.nama, this.deskripsi, this.linkGambar, this.harga);
}
```

```
List<ItemMenu> menuImitasi = [
  ItemMenu(
    "Nasi Goreng",
    "Nasi goreng, an Indonesian fried rice dish, often served with
chicken, prawns, and a fried egg.",
    "assets/nasi-goreng.webp",
    15000,
  ),
  ItemMenu(
    "Rendang",
    "Rendang is a flavorful and tender Indonesian beef stew, simmered
with coconut milk and a blend of spices.",
    "assets/rendang.jpg",
    20000,
  ),
  ItemMenu(
    "Sate Ayam",
    "Sate ayam, or chicken satay, features skewered and grilled
chicken served with a peanut sauce.",
    "assets/sate-ayam.jpg",
    10000,
  ),
  ItemMenu(
    "Gado-Gado",
    "Gado-gado is an Indonesian salad with a peanut sauce dressing,
made with mixed vegetables and tofu.",
    "assets/gado-gado.jpg",
    7500,
  ),
  ItemMenu(
    "Mie Goreng",
    "Mie goreng, or fried noodles, is a popular Indonesian dish with
stir-fried noodles, vegetables, and your choice of protein.",
    "assets/mie-goreng.jpg",
    5000,
  ),
];
```

- halaman_dashboard.dart

```dart
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'package:flutter_app_ecommerce/data.dart';
import 'package:flutter_app_ecommerce/halaman_item.dart';

class HalamanDashboard extends StatelessWidget {
  final SharedPreferences spInstance;
  final String currentUsername;
  const HalamanDashboard(this.spInstance, this.currentUsername,
{super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
        body: Padding(
      padding: const EdgeInsets.all(7),
      child: Center(
          child: Container(
              constraints: const BoxConstraints(maxWidth: 500),
              child: ListView(
                children: [
                  Padding(
                      padding: const EdgeInsets.only(top: 7, bottom:
7),
                      child: Row(
                        mainAxisAlignment:
MainAxisAlignment.spaceBetween,
                        children: [
                          Text(
                            "Dashboard",
                            style:
Theme.of(context).textTheme.displaySmall,
                          ),
                          Row(
                            children: [
                              Text(currentUsername),
                              const Icon(Icons.person),
```

```dart
              ],
            )
          ])),
    GridView.count(
        physics: const ClampingScrollPhysics(),
        shrinkWrap: true,
        mainAxisSpacing: 7,
        crossAxisSpacing: 7,
        crossAxisCount: 3,
        children: menuImitasi
            .map((item) => InkWell(
                onTap: () {
                  Navigator.push(
                      context,
                      MaterialPageRoute(
                          builder: (route) =>
HalamanItem(item)));
                },
                child: Padding(
                    padding: const EdgeInsets.all(7),
                    child: Column(
                      children: [
                        Expanded(
                            flex: 1,
                            child: Row(children: [
                              Expanded(
                                child: Image.asset(
                                  item.linkGambar,
                                  fit: BoxFit.cover,
                                ),
                              )
                            ])),
                        Expanded(
                          flex: 1,
                          child: Column(
                              crossAxisAlignment:

CrossAxisAlignment.start,
```

```dart
                                            children: [
                                              Text(item.nama),
                                              Text(
                                                item.deskripsi,
                                                style:

Theme.of(context)

                                                        .textTheme
                                                        .labelSmall,
                                                maxLines: 2,
                                                overflow:

TextOverflow.ellipsis,

                                              ),

Text(item.harga.toString())),
                                            ]),
                                        )
                                      ],
                                    )),
                                ))
                              .toList(),
                        ),
                      ],
                    ))),
              ));
  }
}
```

- halaman_edit_profile.dart

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

class HalamanEditProfile extends StatefulWidget {
  final SharedPreferences spInstance;
  const HalamanEditProfile(this.spInstance, {super.key});

  @override
  State<StatefulWidget> createState() => _HalamanEditProfileState();
```

```dart
}

class _HalamanEditProfileState extends State<HalamanEditProfile> {
  TextEditingController usernameController = TextEditingController(),
      passwordController = TextEditingController(),
      konfirmasiPasswordController = TextEditingController();
  bool showPassword = false, showKonfirmasiPassword = false;
  Map<String, dynamic> imitasiTabelUser = {};
  String? usernameError, passwordError, konfirmasiPasswordError;

  @override
  void initState() {
    super.initState();

    String? imitasiTabelUserSp = widget.spInstance.getString("user");

    imitasiTabelUser =
        imitasiTabelUserSp == null ? {} :
json.decode(imitasiTabelUserSp);
  }

  void validasiUsername(String value) {
    if (value.isEmpty) {
      setState(() {
        usernameError = "Username tidak boleh kosong";
      });
      return;
    }

    if (imitasiTabelUser.keys.contains(value)) {
      setState(() {
        usernameError = "Username telah terpakai";
      });
      return;
    }

    setState(() {
      usernameError = null;
```

```dart
    });
  }

  void validasiPassword(String value) {
    if (value.isEmpty) {
      setState(() {
        passwordError = "Password tidak boleh kosong";
      });
      return;
    }

    if (!RegExp(r"[A-Z]").hasMatch(value)) {
      setState(() {
        passwordError = "Password harus mengandung huruf besar";
      });
      return;
    }

    if (!RegExp(r"[a-z]").hasMatch(value)) {
      setState(() {
        passwordError = "Password harus mengandung huruf kecil";
      });
      return;
    }

    if (!RegExp(r"[0-9]").hasMatch(value)) {
      setState(() {
        passwordError = "Password harus mengandung angka";
      });
      return;
    }

    setState(() {
      passwordError = null;
    });
  }

  void validasiKonfirmasiPassword(String value) {
```

```dart
    if (value != passwordController.text) {
      setState(() {
        konfirmasiPasswordError = "Password tidak sama";
      });
      return;
    }

    setState(() {
      konfirmasiPasswordError = null;
    });
  }

  void toggleShowPassword() {
    setState(() {
      showPassword = !showPassword;
    });
  }

  void toggleShowKonfirmasiPassword() {
    setState(() {
      showKonfirmasiPassword = !showKonfirmasiPassword;
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
        body: Padding(
      padding: const EdgeInsets.all(7),
      child: Center(
          child: Container(
              constraints: const BoxConstraints(maxWidth: 500),
              child: Column(
                  mainAxisAlignment: MainAxisAlignment.center,
                  crossAxisAlignment: CrossAxisAlignment.start,
                  children: [
                    GestureDetector(
                      onTap: () {
```

```dart
                        Navigator.pop(context);
                      },
                      child: Row(children: [
                        Icon(
                          Icons.arrow_back,
                          color:
Theme.of(context).colorScheme.primary,
                        ),
                        const SizedBox(
                          width: 20,
                        ),
                        Text(
                          "Kembali",
                          style:
Theme.of(context).textTheme.bodyLarge?.apply(
                              color:
Theme.of(context).colorScheme.primary),
                        )
                      ]),
                    ),
                    const SizedBox(height: 14),
                    TextField(
                      controller: usernameController,
                      onChanged: (value) => validasiUsername(value),
                      decoration: InputDecoration(
                          icon: const Icon(Icons.person),
                          label: const Text("Username"),
                          errorText: usernameError,
                          border: const OutlineInputBorder()),
                    ),
                    const SizedBox(height: 14),
                    TextField(
                      controller: passwordController,
                      onChanged: (value) => validasiPassword(value),
                      obscureText: !showPassword,
                      decoration: InputDecoration(
                          icon: const Icon(Icons.key),
                          label: const Text("Password"),
```

```
                errorText: passwordError,
                suffixIcon: GestureDetector(
                  onTap: toggleShowPassword,
                  child: Icon(showPassword
                      ? Icons.visibility
                      : Icons.visibility_off),
                ),
                border: const OutlineInputBorder()),
          ),
          const SizedBox(height: 14),
          TextField(
            controller: konfirmasiPasswordController,
            onChanged: (value) =>
validasiKonfirmasiPassword(value),
            obscureText: !showKonfirmasiPassword,
            decoration: InputDecoration(
                icon: const Icon(Icons.check_circle),
                label: const Text("Konfirmasi password"),
                errorText: konfirmasiPasswordError,
                suffixIcon: GestureDetector(
                  onTap: toggleShowKonfirmasiPassword,
                  child: Icon(showKonfirmasiPassword
                      ? Icons.visibility
                      : Icons.visibility_off),
                ),
                border: const OutlineInputBorder()),
          ),
          const SizedBox(height: 14),
          Row(children: [
            Expanded(
              child: FilledButton.icon(
                onPressed: (usernameError == null &&
                        passwordError == null &&
                        konfirmasiPasswordError == null)
                    ? () async {
                        imitasiTabelUser.addEntries({
                          usernameController.text:
                              passwordController.text
```

```
                              }.entries);

                              await widget.spInstance.setString(
                                  "user",
json.encode(imitasiTabelUser));

                              if (!context.mounted) return;

                              Navigator.pop(context);
                          }
                        : null,
                  icon: const Icon(Icons.save),
                  label: const Text("Simpan")),
            )
          ]),
        ]))),
    ));
  }
}
```

  - halaman_item.dart

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

class HalamanItem extends StatelessWidget {
  final ItemMenu item;

  const HalamanItem(this.item, {super.key});

  @override
  Widget build(BuildContext context) => Scaffold(
        body: Center(
            child: Container(
        constraints: const BoxConstraints(maxWidth: 500),
        child: Padding(
            padding: const EdgeInsets.all(7),
            child: Column(
              children: [
```

```dart
                    GestureDetector(
                      onTap: () {
                        Navigator.pop(context);
                      },
                      child: Padding(
                          padding: const EdgeInsets.only(top: 7, bottom:
7),
                          child: Row(children: [
                            Icon(
                              Icons.arrow_back,
                              color:
Theme.of(context).colorScheme.primary,
                            ),
                            const SizedBox(
                              width: 7,
                            ),
                            Text(
                              item.nama,
                              style:
Theme.of(context).textTheme.titleLarge,
                            )
                          ])),
                    ),
                    Image.asset(
                      item.linkGambar,
                      fit: BoxFit.cover,
                    ),
                    const SizedBox(
                      height: 7,
                    ),
                    Column(
                      crossAxisAlignment: CrossAxisAlignment.start,
                      children: [
                        Text(item.deskripsi),
                        const SizedBox(
                          height: 7,
                        ),
                        Text("${item.harga}"),
```

```
          ],
        ),
      ],
    )),
  )));
}
```

- halaman_login.dart

```dart
import 'dart:convert';

import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'package:flutter_app_ecommerce/halaman_dashboard.dart';

class HalamanLogin extends StatefulWidget {
  final SharedPreferences spInstance;

  const HalamanLogin(this.spInstance, {super.key});

  @override
  State<StatefulWidget> createState() => _HalamanLoginState();
}

class _HalamanLoginState extends State<HalamanLogin> {
  TextEditingController usernameController = TextEditingController(),
      passwordController = TextEditingController();
  bool showPassword = false;
  Map<String, dynamic> imitasiTabelUser = {};

  @override
  void initState() {
    super.initState();

    String? imitasiTabelUserSp = widget.spInstance.getString("user");

    imitasiTabelUser =
        imitasiTabelUserSp == null ? {} :
json.decode(imitasiTabelUserSp);
```

```dart
  }

  void toggleShowPassword() {
    setState(() {
      showPassword = !showPassword;
    });
  }

@override
Widget build(BuildContext context) {
  return Scaffold(
      body: Padding(
    padding: const EdgeInsets.all(7),
    child: Center(
        child: Container(
            constraints: const BoxConstraints(maxWidth: 500),
            child: Column(
                mainAxisAlignment: MainAxisAlignment.center,
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  GestureDetector(
                    onTap: () {
                      Navigator.pop(context);
                    },
                    child: Row(children: [
                      Icon(
                        Icons.arrow_back,
                        color:
Theme.of(context).colorScheme.primary,
                      ),
                      const SizedBox(
                        width: 20,
                      ),
                      Text(
                        "Kembali",
                        style:
Theme.of(context).textTheme.bodyLarge?.apply(
```

```dart
                                color:
Theme.of(context).colorScheme.primary),
                      )
                    ]),
                ),
                const SizedBox(height: 14),
                TextField(
                  controller: usernameController,
                  decoration: const InputDecoration(
                      icon: Icon(Icons.person),
                      label: Text("Username"),
                      border: OutlineInputBorder()),
                ),
                const SizedBox(height: 14),
                TextField(
                  controller: passwordController,
                  obscureText: !showPassword,
                  decoration: InputDecoration(
                      icon: const Icon(Icons.key),
                      label: const Text("Password"),
                      suffixIcon: GestureDetector(
                        onTap: toggleShowPassword,
                        child: Icon(showPassword
                            ? Icons.visibility
                            : Icons.visibility_off),
                      ),
                      border: const OutlineInputBorder()),
                ),
                const SizedBox(height: 14),
                Row(children: [
                  Expanded(
                    child: FilledButton.icon(
                        onPressed: () {
                          if
(imitasiTabelUser[usernameController.text] !=
                              passwordController.text) {

ScaffoldMessenger.of(context).clearSnackBars();
```

```dart
                    ScaffoldMessenger.of(context)
                        .showSnackBar(SnackBar(
                      content: const Text(
                        "Username atau password salah",
                      ),
                      action: SnackBarAction(
                          label: "Tutup",
                          onPressed: () {
                            ScaffoldMessenger.of(context)
                                .removeCurrentSnackBar();
                          }),
                    ));
                    return;
                  }

                  Navigator.pushAndRemoveUntil(
                      context,
                      MaterialPageRoute(
                          builder: (context) =>
HalamanDashboard(

                                  widget.spInstance,
                                  usernameController.text)),
                      (route) => false);
                },
                icon: const Icon(Icons.login),
                label: const Text("Login")),
          )
        ]),
      ]))),
    ));
  }
}
```

- halaman_register.dart

```dart
import 'dart:convert';

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

```dart
import 'package:flutter_app_ecommerce/halaman_dashboard.dart';

class HalamanRegistrasi extends StatefulWidget {
  final SharedPreferences spInstance;

  const HalamanRegistrasi(this.spInstance, {super.key});

  @override
  State<StatefulWidget> createState() => _HalamanRegistrasiState();
}

class _HalamanRegistrasiState extends State<HalamanRegistrasi> {
  TextEditingController usernameController = TextEditingController(),
      passwordController = TextEditingController(),
      konfirmasiPasswordController = TextEditingController();
  bool showPassword = false, showKonfirmasiPassword = false;
  Map<String, dynamic> imitasiTabelUser = {};
  String? usernameError, passwordError, konfirmasiPasswordError;

  @override
  void initState() {
    super.initState();

    String? imitasiTabelUserSp = widget.spInstance.getString("user");

    imitasiTabelUser =
        imitasiTabelUserSp == null ? {} :
json.decode(imitasiTabelUserSp);

    validasiUsername();
    validasiPassword();
    validasiKonfirmasiPassword();
  }

  void validasiUsername() {
    if (usernameController.text.isEmpty) {
      setState(() {
        usernameError = "Username tidak boleh kosong";
```

```dart
      });
      return;
    }

    if (imitasiTabelUser.keys.contains(usernameController.text)) {
      setState(() {
        usernameError = "Username telah terpakai";
      });
      return;
    }

    setState(() {
      usernameError = null;
    });
  }

  void validasiPassword() {
    if (passwordController.text.isEmpty) {
      setState(() {
        passwordError = "Password tidak boleh kosong";
      });
      return;
    }

    if (!RegExp(r"[A-Z]").hasMatch(passwordController.text)) {
      setState(() {
        passwordError = "Password harus mengandung huruf besar";
      });
      return;
    }

    if (!RegExp(r"[a-z]").hasMatch(passwordController.text)) {
      setState(() {
        passwordError = "Password harus mengandung huruf kecil";
      });
      return;
    }
```

```dart
  if (!RegExp(r"[0-9]").hasMatch(passwordController.text)) {
    setState(() {
      passwordError = "Password harus mengandung angka";
    });
    return;
  }

  setState(() {
    passwordError = null;
  });
}

void validasiKonfirmasiPassword() {
  if (konfirmasiPasswordController.text != passwordController.text)
{
    setState(() {
      konfirmasiPasswordError = "Password tidak sama";
    });
    return;
  }

  setState(() {
    konfirmasiPasswordError = null;
  });
}

void toggleShowPassword() {
  setState(() {
    showPassword = !showPassword;
  });
}

void toggleShowKonfirmasiPassword() {
  setState(() {
    showKonfirmasiPassword = !showKonfirmasiPassword;
  });
}
```

```dart
@override
Widget build(BuildContext context) {
  return Scaffold(
    body: Padding(
      padding: const EdgeInsets.all(7),
      child: Center(
        child: Container(
          constraints: const BoxConstraints(maxWidth: 500),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              GestureDetector(
                onTap: () {
                  Navigator.pop(context);
                },
                child: Row(children: [
                  Icon(
                    Icons.arrow_back,
                    color:
Theme.of(context).colorScheme.primary,
                  ),
                  const SizedBox(
                    width: 20,
                  ),
                  Text(
                    "Kembali",
                    style:
Theme.of(context).textTheme.bodyLarge?.apply(
                        color:
Theme.of(context).colorScheme.primary),
                  )
                ]),
              ),
              const SizedBox(height: 14),
              TextField(
                controller: usernameController,
                onChanged: (value) => validasiUsername(),
```

```dart
                    decoration: InputDecoration(
                        icon: const Icon(Icons.person),
                        label: const Text("Username"),
                        errorText: usernameError,
                        border: const OutlineInputBorder()),
                  ),
                  const SizedBox(height: 14),
                  TextField(
                    controller: passwordController,
                    onChanged: (value) {
                      validasiPassword();
                      validasiKonfirmasiPassword();
                    },
                    obscureText: !showPassword,
                    decoration: InputDecoration(
                        icon: const Icon(Icons.key),
                        label: const Text("Password"),
                        errorText: passwordError,
                        suffixIcon: GestureDetector(
                          onTap: toggleShowPassword,
                          child: Icon(showPassword
                              ? Icons.visibility
                              : Icons.visibility_off),
                        ),
                        border: const OutlineInputBorder()),
                  ),
                  const SizedBox(height: 14),
                  TextField(
                    controller: konfirmasiPasswordController,
                    onChanged: (value) =>
        validasiKonfirmasiPassword(),
                    obscureText: !showKonfirmasiPassword,
                    decoration: InputDecoration(
                        icon: const Icon(Icons.check_circle),
                        label: const Text("Konfirmasi password"),
                        errorText: konfirmasiPasswordError,
                        suffixIcon: GestureDetector(
                          onTap: toggleShowKonfirmasiPassword,
```

```dart
                          child: Icon(showKonfirmasiPassword
                              ? Icons.visibility
                              : Icons.visibility_off),
                        ),
                        border: const OutlineInputBorder()),
                  ),
                  const SizedBox(height: 14),
                  Row(children: [
                    Expanded(
                      child: FilledButton.icon(
                        onPressed: (usernameError == null &&
                                passwordError == null &&
                                konfirmasiPasswordError == null)
                            ? () async {
                                imitasiTabelUser.addEntries({
                                  usernameController.text:
                                      passwordController.text
                                }.entries);

                                await widget.spInstance.setString(
                                    "user",
json.encode(imitasiTabelUser));

                                if (!context.mounted) return;

                                Navigator.pushAndRemoveUntil(
                                    context,
                                    MaterialPageRoute(
                                        builder: (context) =>
                                            HalamanDashboard(
                                                widget.spInstance,
usernameController.text)),
                                    (route) => false);
                              }
                            : null,
                        icon: const Icon(Icons.person_add),
                        label: const Text("Registrasi")),
```

```dart
                    )
                  ]),
                ]))),
      ));
    }
  }
}
```

- halaman_splash_screen.dart

```dart
import 'dart:async';

import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'package:flutter_app_ecommerce/halaman_user.dart';

class HalamanSplashScreen extends StatefulWidget {
  const HalamanSplashScreen({super.key});

  @override
  State<StatefulWidget> createState() => _HalamanSplashScreenState();
}

class _HalamanSplashScreenState extends State<HalamanSplashScreen> {
  @override
  void initState() {
    super.initState();

    Timer(const Duration(seconds: 1), () async {
      SharedPreferences spInstance = await
SharedPreferences.getInstance();

      if (!context.mounted) return;

      Navigator.pushReplacement(
          context,
          MaterialPageRoute(
            builder: (context) => HalamanUser(spInstance),
          ));
    });
```

```dart
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
        body: Center(
            child: Text("Selamat Datang!",
                style: Theme.of(context).textTheme.titleLarge)));
  }
}
```

- halaman_user.dart

```dart
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'package:flutter_app_ecommerce/halaman_login.dart';
import 'package:flutter_app_ecommerce/halaman_register.dart';

class HalamanUser extends StatelessWidget {
  final SharedPreferences spInstance;

  const HalamanUser(this.spInstance, {super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
        body: Center(
            child: Container(
                constraints: const BoxConstraints(maxWidth: 500),
                child: Padding(
                    padding: const EdgeInsets.all(7),
                    child: Column(
                      mainAxisAlignment: MainAxisAlignment.center,
                      crossAxisAlignment: CrossAxisAlignment.stretch,
                      children: [
                        ElevatedButton.icon(
                          label: const Text("Login"),
                          icon: const Icon(Icons.login),
                          onPressed: () {
```

```dart
                      Navigator.push(
                          context,
                          MaterialPageRoute(
                              builder: (context) =>
                                  HalamanLogin(spInstance)));
                    },
                  ),
                  Padding(
                    padding: const EdgeInsets.all(14),
                    child: Text(
                      "atau",
                      textAlign: TextAlign.center,
                      style:
Theme.of(context).textTheme.labelSmall,
                    )),
                  ElevatedButton.icon(
                    label: const Text("Registrasi"),
                    icon: const Icon(Icons.person),
                    onPressed: () {
                      Navigator.push(
                          context,
                          MaterialPageRoute(
                              builder: (context) =>

HalamanRegistrasi(spInstance)));
                    },
                  ),
                ],
              )))));
  }
}
```

- main.dart

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

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

```dart
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      debugShowCheckedModeBanner: false,
      theme: ThemeData(
        colorScheme: ColorScheme.fromSeed(seedColor:
Colors.deepPurple),
        useMaterial3: true,
      ),
      home: const HalamanSplashScreen(),
    );
  }
}
```