

## Flutter Part4

Sunday, October 10, 2021  
12:44 PM

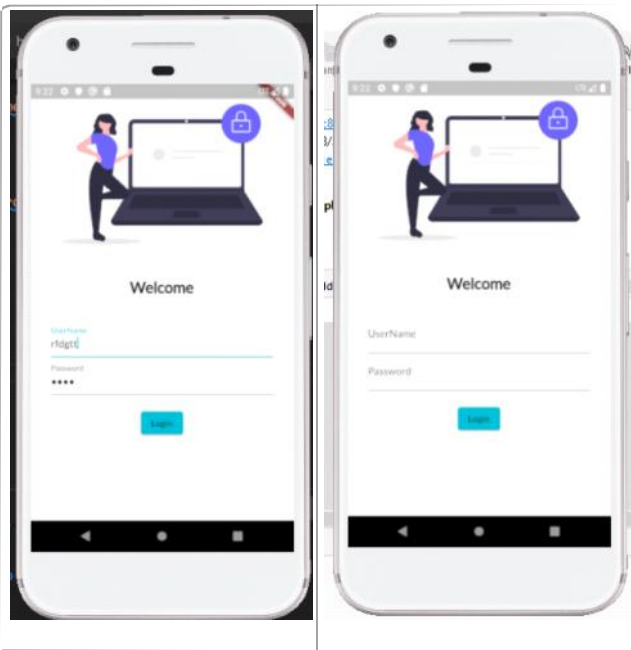
After Creating Login Page , How to move from one page to another.

1. When App will load , it will open Login Page and after click on Login Button we can go to HomePage.  
This we can achieve with **Navigator** in Flutter.

**Code :** When Pressed on Login button, we have defined **Navigator with Route.**

```
ElevatedButton(  
    child: Text("Login"),  
    style: TextButton.styleFrom(),  
    onPressed: () {  
        print("Hi Rajat");  
        Navigator.pushNamed(context, MyRoutes.homeRoute);  
    },  
)
```

2. We can remove **Debug** Banner also.



**Code :** In **main.dart** : **debugShowCheckedModeBanner: false,**

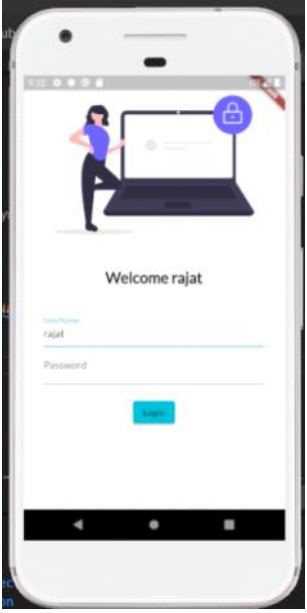
```
@override  
Widget build(BuildContext context) {  
    return MaterialApp(  
        themeMode: ThemeMode.light,  
        theme: ThemeData(  
            primarySwatch: Colors.cyan,  
            fontFamily: GoogleFonts.lato().fontFamily,  
        ),  
        debugShowCheckedModeBanner: false,  
        darkTheme: ThemeData(  
            brightness: Brightness.dark,  
        ),  
        routes: {  
            "/": (context) => LoginPage(),  
            MyRoutes.homeRoute: (context) => HomePage(),  
            MyRoutes.loginRoute: (context) => LoginPage()  
        },  
    );  
}
```

3. What is meaning of Statefull Widget.

When we want any change in current screen , for this we required StateFull.

Example : In login screen , if we want Welcome text should change to some other text on press of Login button.

As we can see in below Snapshot : When we enter Text in UserName Field , Username will append after Welcome Text by adding character by character.

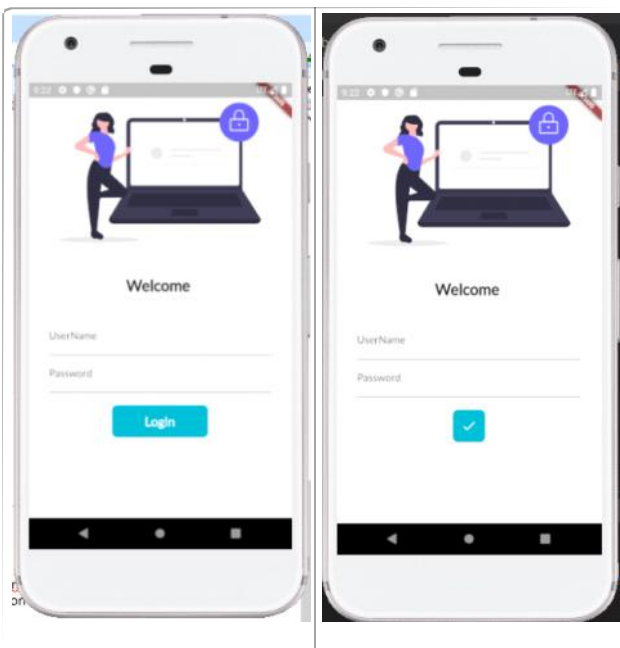


**Code changes in loginpage.dart:**

```
class LoginPage extends StatefulWidget {  
  @override  
  State<LoginPage> createState() => _LoginPageState();  
}  
class _LoginPageState extends State<LoginPage> {  
  String name = "";  
  @override  
  Widget build(BuildContext context) {  
    return Material(<div>: children: [</div><div>Text(</div><div>    "Welcome ${name}",</div><div>    style: TextStyle(</div><div>      fontSize: 24,</div><div>      fontWeight: FontWeight.bold,</div><div>    ),</div><div>  ),</div><div>:</div><div>children: [</div><div>    TextFormField(</div><div>      decoration: InputDecoration(</div><div>        hintText: "Enter UserName", labelText: "UserName"),</div><div>      onChanged: (value) {</div><div>        name = value;</div><div>        setState(() {});</div><div>      },</div><div>    ],</div><div>  ),</div></pre></div></div>
```

We have added **onChanged** in **TextFormField** and assign text value to name filed which appended after **Welcome Text**.

4. We have use **ElevatedButton** , but if we want to create own Button with some Animation , we can use **AnimatedContainer**.
5. Container do not have **onPressed** method so we have **onTap** method in **InkWell** widget which we will wrap over Container.
6. We can also add round corners to button.
7. When we click on Login Button it will converted into circular shape.



Part3 Page 2

Code:

```
import 'package:flutter/material.dart';
import 'package:flutterapplication1/utills/routes.dart';
class LoginPage extends StatefulWidget {
  @override
  State<LoginPage> createState() => _LoginPageState();
}
class _LoginPageState extends State<LoginPage> {
  String name = "";
  bool changeButton = false;
  @override
  Widget build(BuildContext context) {
    return Material(
      color: Colors.white,
      child: SingleChildScrollView(
        child: Column(
          children: [
            Image.asset(
              "assets/images/login.png",
              fit: BoxFit.cover,
            ),
            SizedBox(
              height: 20,
            ),
            Text(
              "Welcome ${name}",
              style: TextStyle(
                fontSize: 24,
                fontWeight: FontWeight.bold,
              ),
            ),
            const SizedBox(
              height: 20,
            ),
            Padding(
              padding: const EdgeInsets.symmetric(
                vertical: 16.0, horizontal: 32.0),
              child: Column(
                children: [
                  TextFormField(
                    decoration: InputDecoration(
                      hintText: "Enter UserName", labelText: "UserName"),
                    onChanged: (value) {
                      name = value;
                      setState(() {});
                    },
                  ),
                  TextFormField(
                    obscureText: true,
                    decoration: InputDecoration(
                      hintText: "Enter Password", labelText: "Password"),
                  ),
                  const SizedBox(
                    height: 20,
                  ),
                  InkWell(
                    onTap: () async {
                      setState(() {
                        changeButton = true;
                      });
                      await Future.delayed(Duration(seconds: 1));
                      print("Hi Rajat");
                      Navigator.pushNamed(context, MyRoutes.homeRoute);
                    },
                    child: AnimatedContainer(
                      duration: Duration(seconds: 1),
                      height: 50,
                      width: changeButton ? 50 : 150,
                      alignment: Alignment.center,
                      child: changeButton
                        ? Icon(Icons.done, color: Colors.white)
                        : Text(
                            "Login",
                            style: TextStyle(
```

```

        color: Colors.white,
        fontWeight: FontWeight.bold,
        fontSize: 20),
      ),
      decoration: BoxDecoration(
        color: Colors.cyan,
        borderRadius: BorderRadius.circular(8)),
    ),
  ),
  // ElevatedButton(
  //   child: Text("Login"),
  //   style: TextButton.styleFrom(),
  //   onPressed: () {
  //     print("Hi Rajat");
  //     Navigator.pushNamed(context, MyRoutes.homeRoute);
  //   },
  // ),
),
),
),
));
}
}

```

#### 8. Validations in input fields of UserName and Password.

We can use Form Widget and we can wrap Column with this Form. Form required Key and we can define Global Key.

