

## Exp-2

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**Aim:** To design simple flutter UI by including common widgets.

**Theory:**

**Common Widgets used are:**

**Scaffold:** Represents the basic material design visual structure. It provides functionality like the AppBar, Drawer, BottomNavigationBar, and body of the app.

**AppBar:** Represents the top app bar that usually contains the app's title and actions.

**Padding:** Adds padding around its child widget.

**Container:** A box model that can contain other widgets and provides styling properties.

**Positioned:** Positions a child within a stack relative to the top-left corner.

**Text:** Displays a paragraph of text with various styling options.

**TextField:** Allows the user to enter text.

**Column:** A widget that displays its children in a vertical array.

**Row:** A widget that displays its children in a horizontal array.

**Image.asset:** Loads an image from an asset bundle.

**GestureDetector:** A widget that detects gestures.

**BottomNavigationBar:** A material design widget that displays a horizontal row of three to five icons and labels at the bottom of the screen.  
`import 'package:flutter/material.dart';`

**Code:**

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

```
class CreateAccountScreen extends StatelessWidget {  
  final TextEditingController nameController = TextEditingController();  
  final TextEditingController emailController = TextEditingController();  
  final TextEditingController passwordController = TextEditingController();
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    return Scaffold(  
      appBar: AppBar(  
        title: Text('Create Account'),  
      ),  
    ),
```

```

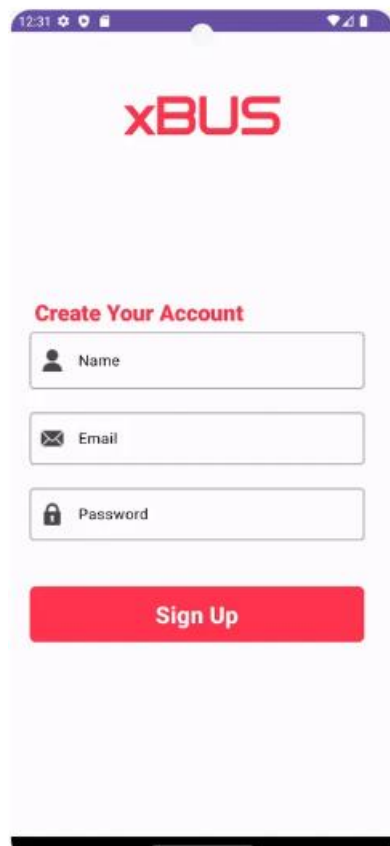
body: Padding(
  padding: EdgeInsets.all(20.0),
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      TextField(
        controller: nameController,
        decoration: InputDecoration(
          labelText: 'Name',
        ),
      ),
      TextField(
        controller: emailController,
        decoration: InputDecoration(
          labelText: 'Email',
        ),
      ),
      TextField(
        controller: passwordController,
        decoration: InputDecoration(
          labelText: 'Password',
        ),
        obscureText: true,
      ),
      SizedBox(height: 20.0),
      ElevatedButton(
        onPressed: () {
          String name = nameController.text.trim();
          String email = emailController.text.trim();
          String password = passwordController.text.trim();

          if (email.isEmpty) {
            showToast(context, 'Enter email');
          } else if (password.isEmpty) {
            showToast(context, 'Enter Password');
          } else {
            // Call a function to handle user sign up
            // For example: signUp(name, email, password);
            // Then navigate to the next screen
            // Navigator.push(
            //   context,
            //   MaterialPageRoute(builder: (context) => NextScreen()),
            // );
          }
        },
        child: Text('Sign Up'),
      ),
    ],
  ),
);
}

```

```
void showToast(BuildContext context, String message) {  
  ScaffoldMessenger.of(context).showSnackBar(  
    SnackBar(  
      content: Text(message),  
    ),  
  );  
}
```

**Output:**



**Conclusion:**

To design simple flutter UI by including common widgets.