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MPL EXP 3

Code:-

```dart
// main.dart

import 'package:flutter/material.dart';

void main() {

runApp(const CanteenApp());

}

class CanteenApp extends StatelessWidget {

const CanteenApp({super.key});

@override

Widget build(BuildContext context) {

return MaterialApp(

title: 'Canteen App',

theme: ThemeData(

primarySwatch: Colors.orange,

),

home: const LoginPage(),

);

}

}

class LoginPage extends StatelessWidget {

const LoginPage({super.key});

@override

Widget build(BuildContext context) {
```

```dart
final TextEditingController emailController = TextEditingController();

final TextEditingController passwordController = TextEditingController();

return Scaffold(

appBar: AppBar(title: const Text('Login')),

body: Padding(

padding: const EdgeInsets.all(16.0),

child: Column(

mainAxisAlignment: MainAxisAlignment.center,

children: [

TextField(

controller: emailController,

decoration: const InputDecoration(

labelText: 'Email',

border: OutlineInputBorder(),

),

keyboardType: TextInputType.emailAddress,

),

const SizedBox(height: 16),

TextField(

controller: passwordController,

decoration: const InputDecoration(

labelText: 'Password',

border: OutlineInputBorder(),

),
```

```dart
      obscureText: true,
    ),

    const SizedBox(height: 24),

    ElevatedButton(

      style: ElevatedButton.styleFrom(

        backgroundColor: Colors.orange,

        padding: const EdgeInsets.symmetric(horizontal: 32, vertical: 16),

      ),

      onPressed: () {

        String email = emailController.text;

        String password = passwordController.text;

        if (email.isNotEmpty && password.isNotEmpty) {

          Navigator.push(

            context,

            MaterialPageRoute(builder: (context) => const MenuPage()),

          );

        } else {

          ScaffoldMessenger.of(context).showSnackBar(

            const SnackBar(content: Text('Please enter email and password')),

          );

        }

      },

      child: const Text('Login', style: TextStyle(fontSize: 18)),

    ),
```

```dart
      const SizedBox(height: 16),

      ElevatedButton(

      style: ElevatedButton.styleFrom(

      backgroundColor: Colors.grey,

      padding: const EdgeInsets.symmetric(horizontal: 32, vertical: 16),

      ),

      onPressed: () {

      Navigator.push(

      context,

      MaterialPageRoute(builder: (context) => const MenuPage()),

      );

      },

      child: const Text('Login as Guest', style: TextStyle(fontSize: 18)),

      ),

      ],

      ),

      ),

      );

      }

}

class MenuPage extends StatefulWidget {

const MenuPage({super.key});

@override

State<MenuPage> createState() => _MenuPageState();
```

```dart
}

class _MenuPageState extends State<MenuPage> {

final List<Map<String, String>> cartItems = [];

void addToCart(String title, String price, String imagePath) {

setState(() {

cartItems.add({'title': title, 'price': price, 'imagePath': imagePath});

});

ScaffoldMessenger.of(context).showSnackBar(

SnackBar(

content: Text('$title added to cart'),

duration: const Duration(seconds: 1),

),

);

}

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(

title: const Text('Canteen Menu'),

actions: [

IconButton(

icon: const Icon(Icons.shopping_cart),

onPressed: () {

Navigator.push(
```

```dart
          context,
          MaterialPageRoute(
            builder: (context) => CartPage(cartItems: cartItems),
          ),
        );
      },
    ),
  ],
),
body: ListView(
  padding: const EdgeInsets.all(16),
  children: [
    _buildMenuItem('Burger', '₹50', 'lib/assets/burger.jfif'),
    _buildMenuItem('Pizza', '₹120', 'lib/assets/pizza.jfif'),
    _buildMenuItem('Cold Drink', '₹30', 'lib/assets/coldrink.jfif'),
    _buildMenuItem('Samosa', '₹15', 'lib/assets/samosa.jfif'),
  ],
),
);
}
Widget _buildMenuItem(String title, String price, String imagePath) {
  return Card(
    shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(16)),
    elevation: 5,
```

```dart
margin: const EdgeInsets.only(bottom: 16),

child: Padding(

padding: const EdgeInsets.all(16),

child: Row(

children: [

ClipRRect(

borderRadius: BorderRadius.circular(12),

child: Image.asset(imagePath, width: 80, height: 80, fit: BoxFit.cover),

),

const SizedBox(width: 16),

Expanded(

child: Column(

crossAxisAlignment: CrossAxisAlignment.start,

children: [

Text(title, style: const TextStyle(fontSize: 20, fontWeight: FontWeight.bold)),

Text(price, style: const TextStyle(fontSize: 16, color: Colors.grey)),

],

),

),

IconButton(

icon: const Icon(Icons.add_shopping_cart, color: Colors.orange),

onPressed: () => addToCart(title, price, imagePath),

),

],
```

```dart
      ),

    ),

  );

  }

}

class CartPage extends StatelessWidget {

final List<Map<String, String>> cartItems;

const CartPage({super.key, required this.cartItems});

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(title: const Text('Your Cart')),

body: cartItems.isEmpty

? const Center(child: Text('Your cart is empty'))

: ListView.builder(

padding: const EdgeInsets.all(16),

itemCount: cartItems.length,

itemBuilder: (context, index) {

final item = cartItems[index];

return Card(

shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(16)),

elevation: 5,

margin: const EdgeInsets.only(bottom: 16),

child: ListTile(
```
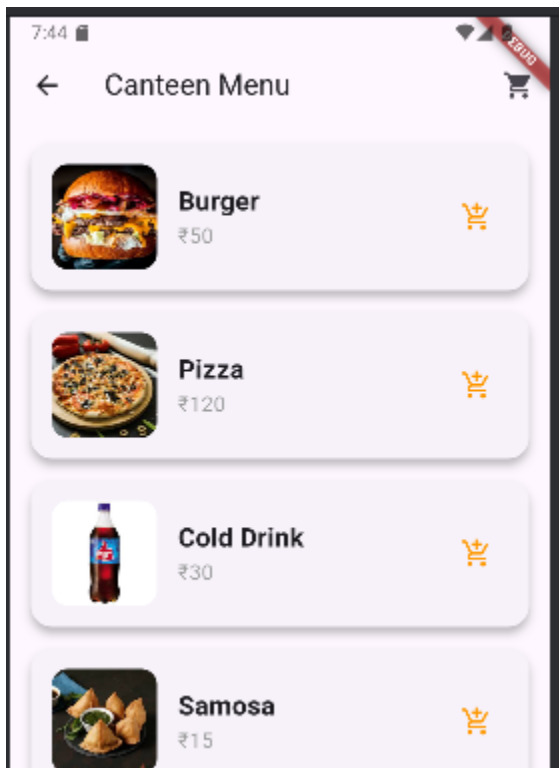
```
leading: ClipRRect(

borderRadius: BorderRadius.circular(12),

child: Image.asset(item['imagePath']!, width: 80, height: 80, fit: BoxFit.cover),

),

title: Text(item['title']!, style: const TextStyle(fontSize: 20, fontWeight: FontWeight.bold)),

subtitle: Text(item['price']!, style: const TextStyle(fontSize: 16, color: Colors.grey)),

),

);

},

),

);

}

}
```

OUTPUT:-

Your Cart

Burger
₹50