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MPL EXP 5

Code:-

```
import 'package:flutter/material.dart';
import 'cart_screen.dart';
import '../services/order_service.dart';
```

```
class MenuScreen extends StatefulWidget {
  final String userEmail;
  const MenuScreen({required this.userEmail, super.key});
```

```
  @override
  _MenuScreenState createState() => _MenuScreenState();
}
```

```
class _MenuScreenState extends State<MenuScreen> {
  final OrderService _orderService = OrderService();
```

```
  final List<Map<String, dynamic>> menuItems = [
    {"name": "Pizza", "price": 199.0, "image": "assets/images/pizza.jfif"},
    {"name": "Burger", "price": 149.0, "image": "assets/images/burger.jfif"},
    {"name": "Pasta", "price": 180.0, "image": "assets/images/pasta.jfif"},
    {"name": "Samosa", "price": 30.0, "image": "assets/images/samosa.jfif"},
    {"name": "Vada Pav", "price": 25.0, "image": "assets/images/vada pav.jfif"},
    {"name": "Dosa", "price": 120.0, "image": "assets/images/dosa.jfif"},
    {"name": "Chole Bhature", "price": 180.0, "image": "assets/images/chole bhature.jfif"},
    {"name": "Masala Dosa", "price": 140.0, "image": "assets/images/masala_dosa.jfif"},
  ];
```

```
  Future<void> addToCart(String name, double price) async {
    await _orderService.addToCart(widget.userEmail, name, price);
    if (mounted) {
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text("$name added to cart")),
      );
    }
  }
}
```

```
  @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(
        context,
        MaterialPageRoute(builder: (context) => CartScreen(userEmail: widget.userEmail)),
      ),
    ),
  ],
),
body: LayoutBuilder(
  builder: (context, constraints) {
    double width = constraints.maxWidth;
    double aspectRatio = (width < 600) ? 0.9 : 1.2;

    return GridView.builder(
      padding: const EdgeInsets.all(16),
      gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
        crossAxisCount: 2,
        crossAxisSpacing: 12,
        mainAxisSpacing: 12,
        childAspectRatio: aspectRatio,
      ),
      itemCount: menuItems.length,
      itemBuilder: (context, index) {
        var item = menuItems[index];
        return Card(
          elevation: 5,
          shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(15)),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              ClipRRect(
                borderRadius: BorderRadius.circular(10),
                child: Image.asset(
                  item["image"],
                  height: 120, // Increased Image Size
                  width: 120,
                  fit: BoxFit.cover,
                ),
              ),
              const SizedBox(height: 25), // Increased Gap
            ],
          ),
        );
      },
    );
  },
);

```

```

Text(
  item["name"],
  style: const TextStyle(fontSize: 18, fontWeight: FontWeight.bold), // Larger Name
Text
),
const SizedBox(height: 12),
Text(
  "₹${item["price"].toStringAsFixed(2)}",
  style: TextStyle(fontSize: 15, color: Colors.grey[700]),
),
const SizedBox(height: 18), // Increased Gap
ElevatedButton(
  onPressed: () => addToCart(item["name"], item["price"]),
  style: ElevatedButton.styleFrom(
    backgroundColor: Colors.purple[300],
    shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(20)),
  ),
  child: const Text("Add to Cart"),
),
],
),
);
},
);
},
),
);
}
}

```

OUTPUT:-

Canteen Menu



Pizza

₹199.00

Add to Cart



Burger

₹149.00

Add to Cart

register > lib > screens > menu_screen.dart

← Cart

Burger

Price: 5.99 x 1

— +

Dosa

Price: 120 x 1

— +

Pizza

Price: 8.99 x 2

— +