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MAD CS 5-1

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Q.1 You've been hired to create a simple mobile app for a university's internal portal. The app needs

to provide quick navigation and a clean user experience. On the **Home Page**, display a course card with an image and **course name**. When the user taps the card, it should navigate to a **Details Page** using **Navigator.push**, and the course image should smoothly transition using a **Hero animation**. The app should also feature a **BottomNavigationBar** with two tabs: Home and Profile, allowing users to switch between the main content and a simple profile view. Additionally, implement a Drawer on the Home Page with a vertical menu list using **ListView**, showing three items: **Dashboard**, **Settings**, and **Logout**. Focus on layout, navigation, and basic interactivity. Keep your UI clean and functional.

```
main.dart
import 'package:flutter/material.dart';
void main() {
runApp(MyApp());
}
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
return MaterialApp(
title: 'University Portal',
  theme: ThemeData(
  primarySwatch: Colors.blue,
 home: HomePage(),
); }
}
homepage.dart
class HomePage extends StatefulWidget {
 @override
_HomePageState createState() => _HomePageState();
}
class _HomePageState extends State<HomePage> {
int _selectedIndex = 0;
```

```
final List<Widget> _pages = [
 HomeContent(),
 ProfilePage(),
];
void onItemTapped(int index) {
 setState(() {
  _selectedIndex = index;
 });
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(title: Text("University Portal")),
  drawer: Drawer(
   child: ListView(
    children: <Widget>[
     ListTile(title: Text('Dashboard'), onTap: () {}),
     ListTile(title: Text('Settings'), onTap: () {}),
     ListTile(title: Text('Logout'), onTap: () {}),
    ],
   ),
  ),
  body: _pages[_selectedIndex],
  bottomNavigationBar: BottomNavigationBar(
   currentIndex: _selectedIndex,
```

```
onTap: _onItemTapped,
    items: const <BottomNavigationBarItem>[
     BottomNavigationBarItem(icon: Icon(Icons.home), label: 'Home'),
     BottomNavigationBarItem(icon: Icon(Icons.person), label: 'Profile'),
    ],
   ),
  );
 }
}
homecontent.dart
class HomeContent extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Padding(
   padding: const EdgeInsets.all(8.0),
   child: ListView(
    children: [
     CourseCard(
      image: 'assets/course_image.jpg',
      courseName: 'Introduction to Programming',
     ),
     CourseCard(
      image: 'assets/course_image.jpg',
      courseName: 'Data Structures',
```

),

// Add more course cards as needed

```
],
   ),
 );
}
}
class CourseCard extends StatelessWidget {
final String image;
 final String courseName;
 CourseCard({required this.image, required this.courseName});
 @override
 Widget build(BuildContext context) {
  return GestureDetector(
   onTap: () {
    Navigator.push(
     context,
     MaterialPageRoute(
      builder: (context) => CourseDetailsPage(courseName: courseName, image: image),
     ),
    );
   },
   child: Card(
    elevation: 4.0,
    child: ListTile(
     contentPadding: EdgeInsets.all(8.0),
```

```
leading: Hero(
      tag: 'course-image-$courseName',
      child: Image.asset(image, width: 50, height: 50, fit: BoxFit.cover),
     ),
     title: Text(courseName),
    ),
   ),
 );
 }
}
coursedetailspage.dart
class CourseCard extends StatelessWidget {
final String image;
final String courseName;
 CourseCard({required this.image, required this.courseName});
 @override
 Widget build(BuildContext context) {
  return GestureDetector(
   onTap: () {
    // YE HAI Navigator.push
    Navigator.push(
     context,
```

```
MaterialPageRoute(
      builder: (context) => CourseDetailsPage(courseName: courseName, image: image),
     ),
    );
   },
   child: Card(
    elevation: 4.0,
    child: ListTile(
     contentPadding: EdgeInsets.all(8.0),
     leading: Hero(
      tag: 'course-image-$courseName',
      child: Image.asset(image, width: 50, height: 50, fit: BoxFit.cover),
     ),
     title: Text(courseName),
    ),
   ),
  );
 }
profilepage.dart
class ProfilePage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(title: Text("Profile")),
   body: Center(
    child: Text(
```

}

```
"User Profile Information",
    style: TextStyle(fontSize: 24),
    ),
    ),
    );
}
```

pubspec.yaml

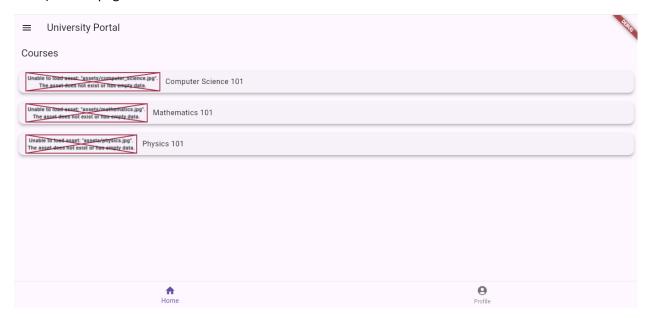
flutter:

assets:

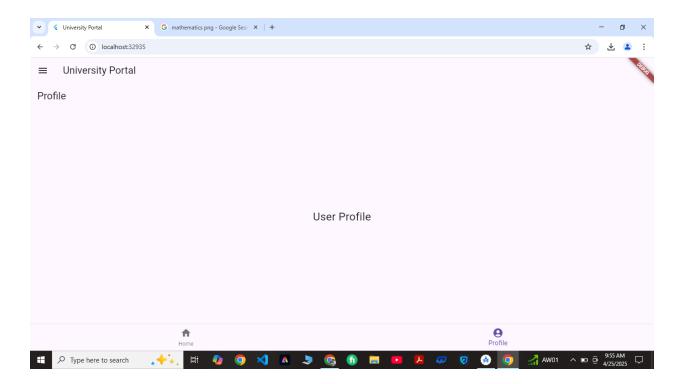
- assets/course_image.jpg

SCREENSHOT:

1) Homepage



2) ProfilePage



3) Drawer and Logout

