



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

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

import 'homeScreen.dart';

class SplashScreen extends StatefulWidget {
  const SplashScreen({ super.key });

  @override
  State<SplashScreen> createState() => _SplashScreenState();
}

class _SplashScreenState extends State<SplashScreen>
  with SingleTickerProviderStateMixin {
  late AnimationController _controller;
  late Animation<double> _scaleAnimation;

  @override
  void initState() {
    super.initState();

    // Initialize animation controller
    _controller = AnimationController(
      duration: const Duration(seconds: 2),
      vsync: this,
    );

    // Scale animation from 0.5x to 1.0x
    _scaleAnimation = Tween<double>(begin: 0.5, end: 1.0).animate(
      CurvedAnimation(parent: _controller, curve: Curves.easeInOut),
    );

    // Start animation
    _controller.forward();

    // Navigate to HomeScreen after animation completes
    Future.delayed(const Duration(seconds: 2), () {
      Get.off(() => const HomeScreen());
    });
  }

  @override
  void dispose() {
    _controller.dispose();
    super.dispose();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(
        child: ScaleTransition(
          scale: _scaleAnimation,
          child: Center(
            child: Lottie.asset('assets/animation/food_splash.json', width: 200, height: 200),
          ),
        ),
      ),
    );
  }
}
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

}

Experiment	7
Aim	Create an app for a restaurant to deliver food at doorstep.
Objective	<ul style="list-style-type: none">• To create app for restaurant food delivery app.• To use either side or tabs menu• To create your own theme for the app.• To create Splash screen for the app.
Name	Atharva Vasant Angre
UCID	2024510001
Class	FYMCA
Batch	A
Date of Submission	12.04.2024

}

Technology used	Flutter
Task	Create Restaurant App for food delivery at your doorstep. Consider your own creativity and theme. Make use of multiple widgets and themes for make it look the best.
Code with proper label	<pre>Main.dart import 'package:flutter/material.dart'; import 'package:get/get.dart'; import 'package:lab_7/routes.dart'; import 'package:lab_7/theme.dart'; import 'Screens/splashScreen.dart'; import 'controller/RestaurantMenuController.dart'; void main() { Get.put(RestaurantMenuController(), permanent: true); runApp(const MyApp()); } class MyApp extends StatelessWidget { const MyApp({super.key}); @override Widget build(BuildContext context) { return GetMaterialApp(debugShowCheckedModeBanner: false, theme: AppTheme.lightTheme, home: const SplashScreen(), getPages: AppRoutes.routes,); } } Routes.dart import 'package:get/get.dart';</pre>



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.

Department of Computer Science and Engineering

```
import 'package:lab_7/Screens/restaurantDetailScreen.dart';
import 'Screens/cart_screen.dart';
import 'Screens/homeScreen.dart';
import 'Screens/restaurant_details.dart';

class AppRoutes {
  static final routes = [
    GetPage(name: '/', page: () => const HomeScreen()),
    GetPage(name: '/cart', page: () => CartScreen()),
    GetPage(name: '/restaurant', page: () => const RestaurantScreen()),
    GetPage(name: '/restaurantDetail', page: () => RestaurantDetailScreen()),
  ];
}

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

class AppTheme {
  static const Color primaryColor = Color(0xFF1565C0); // Blue
  static const Color secondaryColor = Color(0xFFD32F2F); // Red
  static const Color accentColor = Color(0xFFFFFFFF); // White

  static ThemeData lightTheme = ThemeData(
    primaryColor: primaryColor,
    colorScheme: ColorScheme.light(
      primary: primaryColor,
      secondary: secondaryColor,
    ),
    fontFamily: 'Jonesy',
    textTheme: const TextTheme(
      displayLarge: TextStyle(fontFamily: 'JonesyCapitals', fontSize: 32,
        fontWeight: FontWeight.bold),
      displayMedium: TextStyle(fontFamily: 'JonesyCapitals', fontSize: 28,
        fontWeight: FontWeight.bold),
      displaySmall: TextStyle(fontFamily: 'JonesyCapitals', fontSize: 24,
        fontWeight: FontWeight.bold),
      bodyLarge: TextStyle(fontFamily: 'Jonesy', fontSize: 16),
      bodyMedium: TextStyle(fontFamily: 'Jonesy', fontSize: 14),
      labelLarge: TextStyle(fontFamily: 'JonesyCapitals', fontSize: 18, fontWeight:
        FontWeight.bold),
    ),
    appBarTheme: const AppBarTheme(
      backgroundColor: primaryColor,
      foregroundColor: Colors.white,
      titleTextStyle: TextStyle(fontFamily: 'JonesyCapitals', fontSize: 20,
        fontWeight: FontWeight.bold),
    ),
    floatingActionButtonTheme: const FloatingActionButtonThemeData(
      backgroundColor: secondaryColor,
      foregroundColor: Colors.white,
    ),
  );
}

restaurant_controller.dart
import 'package:get/get.dart';
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
class RestaurantMenuController extends GetxController {
    // Menu data for the current restaurant
    var categories = [
        {
            "title": "Recommended",
            "items": [
                {
                    "name": "Tea",
                    "price": 30,
                    "rating": 4.8,
                    "image": "assets/images/tea.png"
                },
            ],
        },
        {
            "title": "Snacks",
            "items": []
        },
        {
            "title": "Meals - Indian Veg",
            "items": [
                {
                    "name": "Paneer Bhurji",
                    "price": 355,
                    "rating": 4.5,
                    "image": "assets/images/panneerbhurji.png"
                },
            ],
        }
    ];

    // Cart data structure: { "restaurantName": { "itemName": quantity } }
    var cart = {};

    void addToCart(String restaurantName, String itemName) {
        if (cart.containsKey(restaurantName)) {
            Map<String, int> items = cart[restaurantName];
            if (items.containsKey(itemName)) {
                items[itemName] = items[itemName]! + 1;
            } else {
                items[itemName] = 1;
            }
            cart[restaurantName] = items;
        } else {
            cart[restaurantName] = {itemName: 1};
        }
    }

    void removeFromCart(String restaurantName, String itemName) {
        if (cart.containsKey(restaurantName)) {
            Map<String, int> items = cart[restaurantName];
            if (items.containsKey(itemName) && items[itemName]! > 0) {
                items[itemName] = items[itemName]! - 1;
                if (items[itemName] == 0) {
                    items.remove(itemName);
                }
            }
        }
        if (items.isEmpty) {

```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.

Department of Computer Science and Engineering

```
cart.remove(restaurantName);
    } else {
        cart[restaurantName] = items;
    }
}
}

int getItemCount(String restaurantName, String itemName) {
    if (cart.containsKey(restaurantName)) {
        Map<String, int> items = cart[restaurantName];
        return items[itemName] ?? 0;
    }
    return 0;
}
}
```

```
home_screen.dart
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:lab_7/Screens/restaurant_details.dart';
```

```
class HomeScreen extends StatelessWidget {
    const HomeScreen({super.key});

    @override
    Widget build(BuildContext context) {
        return Scaffold(
            appBar: AppBar(
                title: const Text('Foodzz'),
            ),
            body: Center(
                child: RestaurantScreen()
            ),
            floatingActionButton: FloatingActionButton(
                onPressed: () {
                    Get.toNamed('/cart');
                },
                child: const Icon(Icons.shopping_cart),
            ),
        );
    }
}
```

```
restaurant_details.dart
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import '../theme.dart';
```

```
class RestaurantScreen extends StatelessWidget {
    const RestaurantScreen({super.key});

    @override
    Widget build(BuildContext context) {
        List<Map<String, String>> restaurants = [
            {
                "name": "Pizza Hut",
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.

Department of Computer Science and Engineering

```
"rating": "4.3",
"time": "45-50 mins",
"image": "assets/images/pizzahut.png",
"speciality": "Pizzas",

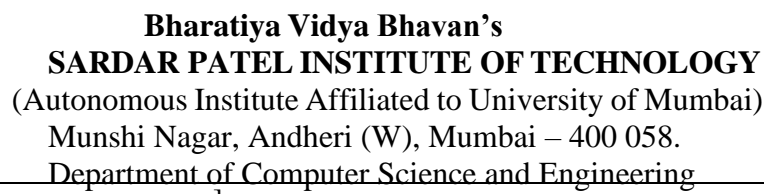
},
{
  "name": "Urban Cafe",
  "rating": "4.7",
  "time": "50-55 mins",
  "image": "assets/images/urbancafe.png",
  "speciality": "Snacks, Pizzas, Pastas, Fast Food, Burgers, Cafe",

},
{
  "name": "Shree Naivedyam",
  "rating": "4.5",
  "time": "45-50 mins",
  "image": "assets/images/shri.png",
  "speciality": "North Indian, Chinese, South Indian, Pizzas, Beverages",
}, {
  "name": "Jai Ganesh Bhojnalaya",
  "rating": "4.5",
  "time": "35-40 mins",
  "image": "assets/images/ganesh.png",
  "speciality": "North Indian, South Indian, Indian, Chinese",
}, {
  "name": "Hotel Sai Nath & Sai Restaurant",
  "rating": "4.3",
  "time": "35-40 mins",
  "image": "assets/images/sai.png",
  "speciality": "North Indian, South Indian, Chinese, Beverages, Fast Food,
Desserts",
}, {
  "name": "Bharat Mewad Ice Cream",
  "rating": "4.4",
  "time": "35-40 mins",
  "image": "assets/images/mewad.png",
  "speciality": "Ice Cream, Desserts, Beverages",
}, {
  "name": "Apni Rasoi Family Dhaba",
  "rating": "4.2",
  "time": "45-50 mins",
  "image": "assets/images/rasoi.png",
  "speciality": "North Indian, Indian, South Indian, Chinese",
}, {
  "name": "The Fusion Lounge",
  "rating": "4.1",
  "time": "50-55 mins",
  "image": "assets/images/fusion.png",
  "speciality": "South Indian, Chinese, Beverages, Fast Food, Desserts",
}, {
  "name": "Satkar Restaurant",
  "rating": "4.5",
  "time": "25-30 mins",
  "image": "assets/images/satkar.png",
  "speciality": "North Indian, South Indian, Indian, Salads, Desserts",
},
];
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
return Scaffold(  
  body: Padding(  
    padding: const EdgeInsets.all(8.0),  
    child: GridView.builder(  
      gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(  
        crossAxisCount: 2,  
        crossAxisSpacing: 10,  
        mainAxisSpacing: 10,  
        childAspectRatio: 0.9,  
      ),  
      itemCount: restaurants.length,  
      itemBuilder: (context, index) {  
        return GestureDetector(  
          onTap: () {  
            // Navigate using GetX  
            Get.toNamed('/restaurantDetail', arguments: restaurants[index]);  
          },  
          child: Card(  
            color: AppTheme.accentColor,  
            elevation: 4,  
            shape: RoundedRectangleBorder(  
              borderRadius: BorderRadius.circular(12),  
            ),  
            child: Container(  
              height: Get.height * 0.3,  
              child: Column(  
                crossAxisAlignment: CrossAxisAlignment.start,  
                children: [  
                  Padding(  
                    padding: const EdgeInsets.all(8.0),  
                    child: ClipRRect(  
                      borderRadius: const BorderRadius.all(Radius.circular(12)),  
                      child: Stack(  
                        children: [  
                          Image.asset(  
                            restaurants[index]['image']!,  
                            width: double.infinity,  
                            height: 120,  
                            fit: BoxFit.cover,  
                          ),  
                          Positioned(  
                            bottom: 0,  
                            left: 0,  
                            right: 0,  
                            child: Container(  
                              height: 24,  
                              decoration: BoxDecoration(  
                                gradient: LinearGradient(  
                                  begin: Alignment.bottomCenter,  
                                  end: Alignment.topCenter,  
                                  colors: [  
                                    Colors.black.withOpacity(1),  
                                    Colors.transparent,  
                                  ],  
                                ),  
                              ),  
                            ),  
                          ),  
                        ],  
                      ),  
                    ),  
                  ),  
                ],  
              ),  
            ),  
          ),  
        ),  
      ),  
    ),  
  ),  
);
```



```
restaurant_details_screen.dart
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import '../controller/RestaurantMenuController.dart';

class RestaurantDetailScreen extends StatelessWidget {
```




Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.

Department of Computer Science and Engineering

```
// Retrieve the global controller instance.
final RestaurantMenuController menuController =
Get.find<RestaurantMenuController>();

@override
Widget build(BuildContext context) {
  final Map<String, dynamic> restaurant =
    Get.arguments?.cast<String, dynamic>() ?? {};
  final String restaurantName = restaurant['name'] ?? 'Restaurant Name';

  return Scaffold(
    appBar: AppBar(title: const Text("Restaurant Menu")),
    body: Padding(
      padding: const EdgeInsets.all(8.0),
      child: SingleChildScrollView(
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            // Restaurant Image and Gradient overlay
            ClipRRect(
              borderRadius: const BorderRadius.all(Radius.circular(12)),
              child: Stack(
                children: [
                  Image.asset(
                    restaurant['image']!,
                    width: double.infinity,
                    height: 200,
                    fit: BoxFit.cover,
                  ),
                  Positioned(
                    bottom: 0,
                    left: 0,
                    right: 0,
                    child: Container(
                      height: 24,
                      decoration: BoxDecoration(
                        gradient: LinearGradient(
                          begin: Alignment.bottomCenter,
                          end: Alignment.topCenter,
                          colors: [
                            Colors.black.withOpacity(1),
                            Colors.transparent,
                          ],
                        ),
                      ),
                    ),
                  ),
                ],
              ),
            ),
            const SizedBox(height: 16),
            // Restaurant Details
            Padding(
              padding: const EdgeInsets.symmetric(horizontal: 16.0),
              child: Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  Text(
                    restaurantName,
```



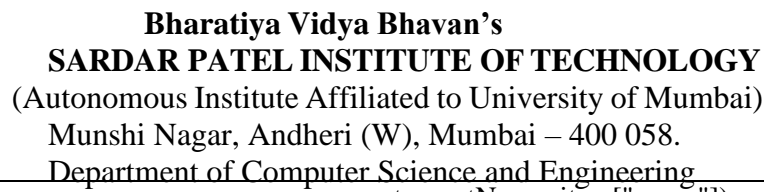
Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
style: const TextStyle(
  fontSize: 24, fontWeight: FontWeight.bold),
),
const SizedBox(height: 8),
Row(
  children: [
    const Icon(Icons.star, color: Colors.green),
    Text(
      restaurant['rating'] ?? 'N/A',
      style: const TextStyle(
        fontSize: 18, color: Colors.black87),
    ),
  ],
),
const SizedBox(height: 8),
Text(
  "Estimated Delivery Time: ${restaurant['time'] ?? 'N/A'}",
  style: const TextStyle(
    fontSize: 16, color: Colors.black54),
),
const SizedBox(height: 8),
Text(
  "Specialities: ${restaurant['speciality'] ?? 'N/A'}",
  style: const TextStyle(
    fontSize: 16, color: Colors.black54),
),
],
),
const SizedBox(height: 10),
Center(
  child: Text(
    "Menu",
    style: TextStyle(fontSize: 25),
  ),
),
// Menu List
Obx(() {
  return ListView.builder(
    shrinkWrap: true,
    physics: const NeverScrollableScrollPhysics(),
    itemCount: menuController.categories.length,
    itemBuilder: (context, index) {
      var category = menuController.categories[index];
      var items = (category['items'] as List?) ?? [];
      return ExpansionTile(
        title: Text(
          "${category['title']} (${items.length})",
          style: const TextStyle(fontWeight: FontWeight.bold),
        ),
        children: items.map<Widget>((item) {
          return Stack(
            children: [
              Container(
                padding: const EdgeInsets.symmetric(
                  vertical: 15, horizontal: 16),
                child: Row(
                  mainAxisAlignment:
                    MainAxisAlignment.spaceBetween,
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

	<pre>children: [// Icon (if needed) Icon(Icons.indeterminate_check_box_outlined, color: Colors.green), // Food Name and Price Expanded(child: Column(crossAxisAlignment: CrossAxisAlignment.start, children: [Text(item["name"], style: const TextStyle(fontWeight: FontWeight.bold, fontSize: 16),), Text("₹\${item["price"]}", style: const TextStyle(fontWeight: FontWeight.bold, color: Colors.black87),),],), // Food Image ClipRRect(borderRadius: BorderRadius.circular(8), child: Image.asset(item["image"], width: 100, height: 100, fit: BoxFit.cover,),),],), // Add to Cart UI (always shows "-" and "+" buttons) Positioned(top: Get.height * 0.090, left: Get.width * 0.730, child: Obx(() { int itemCount = menuController.getItemCount(restaurantName, item["name"]); return Container(padding: const EdgeInsets.all(8.0), decoration: BoxDecoration(borderRadius: BorderRadius.circular(10), color: Colors.green,), child: Row(mainAxisAlignment: MainAxisAlignment.spaceEvenly, children: [GestureDetector(onTap: () { if (itemCount > 0) { menuController.removeFromCart(</pre>
--	---



```

        restaurantName, item["name"]);
        Get.snackbar("Item Removed Successfully",
            "",
            snackPosition:
                SnackPosition.BOTTOM,
            backgroundColor: Colors.red);
    }
},
child: const Text(
    "-",
    style: TextStyle(color: Colors.white),
),
),
Padding(
    padding: const EdgeInsets.symmetric(
        horizontal: 8.0),
    child: Text(
        itemCount == 0 ? "Add" : " $itemCount ",
        style: const TextStyle(
            color: Colors.white),
    ),
),
GestureDetector(
    onTap: () {
        menuController.addToCart(
            restaurantName, item["name"]);
        Get.snackbar("Item Added Successfully", "",
            snackPosition: SnackPosition.BOTTOM,
            backgroundColor: Colors.green);
    },
    child: const Text(
        "+",
        style: TextStyle(color: Colors.white),
    ),
),
),
],
),
);
}),
),
],
);
}).toList(),
);
},
);
}),
],
),
),
),
floatingActionButton: FloatingActionButton(
    onPressed: () {
        Get.toNamed('/cart');
    },
    child: const Icon(Icons.shopping_cart),
),
);

```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
}

cart_Screen.dart
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import '../controller/RestaurantMenuController.dart';

class CartScreen extends StatelessWidget {
  final RestaurantMenuController menuController =
    Get.find<RestaurantMenuController>();

  final double deliveryFee = 71.0;
  final double taxRate = 0.08;

  CartScreen({ Key? key }) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Cart'),
      ),
      body: Obx(() {
        if (menuController.cart.isEmpty) {
          return const Center(
            child: Text('Your cart is empty'),
          );
        }

        double itemTotal = 0.0;
        menuController.cart.forEach((restaurantName, itemsMap) {
          (itemsMap as Map<String, int>).forEach((itemName, quantity) {
            var item = menuController.categories
              .expand((category) => category["items"] as List)
              .firstWhere(
                (element) => element["name"] == itemName,
                orElse: () => null,
              );
            if (item != null) {
              itemTotal += (item["price"] * quantity);
            }
          });
        });

        double taxAndOtherCharges = itemTotal * taxRate;

        double tip = 0.0;

        double toPay = itemTotal + deliveryFee + taxAndOtherCharges + tip;

        return Column(
          children: [
            Expanded(
              child: ListView(
                children: menuController.cart.entries.map<Widget>((restaurantEntry)
                {
                  final restaurantName = restaurantEntry.key;
                  final itemsMap = restaurantEntry.value as Map<String, int>;
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
// Build a list of Widgets for each restaurant
List<Widget> listItems = [];

// Restaurant header
listItems.add(
  Padding(
    padding: const EdgeInsets.all(8.0),
    child: Text(
      restaurantName,
      style: const TextStyle(
        fontSize: 20,
        fontWeight: FontWeight.bold,
      ),
    ),
  ),
);

// Each item in the restaurant
itemsMap.entries.forEach((entry) {
  String itemName = entry.key;
  int quantity = entry.value;

  var item = menuController.categories
    .expand((category) => category["items"] as List)
    .firstWhere(
      (element) => element["name"] == itemName,
      orElse: () => null,
    );

  listItems.add(
    ListTile(
      leading: item != null
        ? Image.asset(item["image"], width: 50, height: 50)
        : null,
      title: Text(itemName),
      trailing: Row(
        mainAxisAlignment: MainAxisAlignment.min,
        children: [
          // Quantity control
          Container(
            decoration: BoxDecoration(
              borderRadius: BorderRadius.circular(50),
              border: Border.all(color: Colors.black),
            ),
          ),
          child: Row(
            children: [
              IconButton(
                onPressed: () => menuController.removeFromCart(
                  restaurantName,
                  itemName,
                ),
                icon: const Icon(Icons.remove),
              ),
              Text("$quantity"),
              IconButton(
                onPressed: () => menuController.addToCart(
                  restaurantName,
                  itemName,
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
),
    icon: const Icon(Icons.add),
  ),
],
),
),
Padding(
  padding: const EdgeInsets.only(left: 20),
  child: Text(
    "₹${quantity * (item?["price"] ?? 0)}",
  ),
),
),
],
),
);
});

return Column(
  crossAxisAlignment: CrossAxisAlignment.start,
  children: listItems,
);
}).toList(),
),
),
Container(
  width: double.infinity,
  padding: const EdgeInsets.symmetric(horizontal: 16, vertical: 12),
  decoration: const BoxDecoration(
    color: Colors.white,
    border: Border(
      top: BorderSide(color: Colors.black12),
    ),
  ),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      const Text(
        "Bill Details",
        style: TextStyle(fontWeight: FontWeight.bold, fontSize: 16),
      ),
      const SizedBox(height: 8),

      Row(
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children: [
          const Text("Item Total"),
          Text("₹${itemTotal.toStringAsFixed(2)}"),
        ],
      ),

      Row(
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children: [
          const Text("Delivery Fee"),
          Text("₹${deliveryFee.toStringAsFixed(2)}"),
        ],
      ),
    ],
  ),
),
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
const SizedBox(height: 8),
const Divider(thickness: 1),

Row(
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: [
    const Text("Delivery Tip"),
    GestureDetector(
      onTap: () {

        },
        child: const Text(
          "Add tip",
          style: TextStyle(
            color: Colors.red,
          ),
        ),
      ),
    ],
  ),

Row(
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: [
    const Text("GST & Other Charges"),
    Text("₹${taxAndOtherCharges.toStringAsFixed(2)}"),
  ],
),

const SizedBox(height: 8),
const Divider(thickness: 1),

Row(
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: [
    const Text(
      "TO PAY",
      style: TextStyle(
        fontWeight: FontWeight.bold,
        fontSize: 16,
      ),
    ),
    Text(
      "₹${toPay.toStringAsFixed(2)}",
      style: const TextStyle(
        fontWeight: FontWeight.bold,
        fontSize: 16,
      ),
    ),
  ],
),
);
});
);
}
```




Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
}

splash_screen.dart
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:lottie/lottie.dart';

import 'homeScreen.dart';

class SplashScreen extends StatefulWidget {
  const SplashScreen({super.key});

  @override
  State<SplashScreen> createState() => _SplashScreenState();
}

class _SplashScreenState extends State<SplashScreen>
  with SingleTickerProviderStateMixin {
  late AnimationController _controller;
  late Animation<double> _scaleAnimation;

  @override
  void initState() {
    super.initState();

    // Initialize animation controller
    _controller = AnimationController(
      duration: const Duration(seconds: 2),
      vsync: this,
    );

    // Scale animation from 0.5x to 1.0x
    _scaleAnimation = Tween<double>(begin: 0.5, end: 1.0).animate(
      CurvedAnimation(parent: _controller, curve: Curves.easeInOut),
    );

    // Start animation
    _controller.forward();

    // Navigate to HomeScreen after animation completes
    Future.delayed(const Duration(seconds: 2), () {
      Get.off() => const HomeScreen();
    });
  }

  @override
  void dispose() {
    _controller.dispose();
    super.dispose();
  }

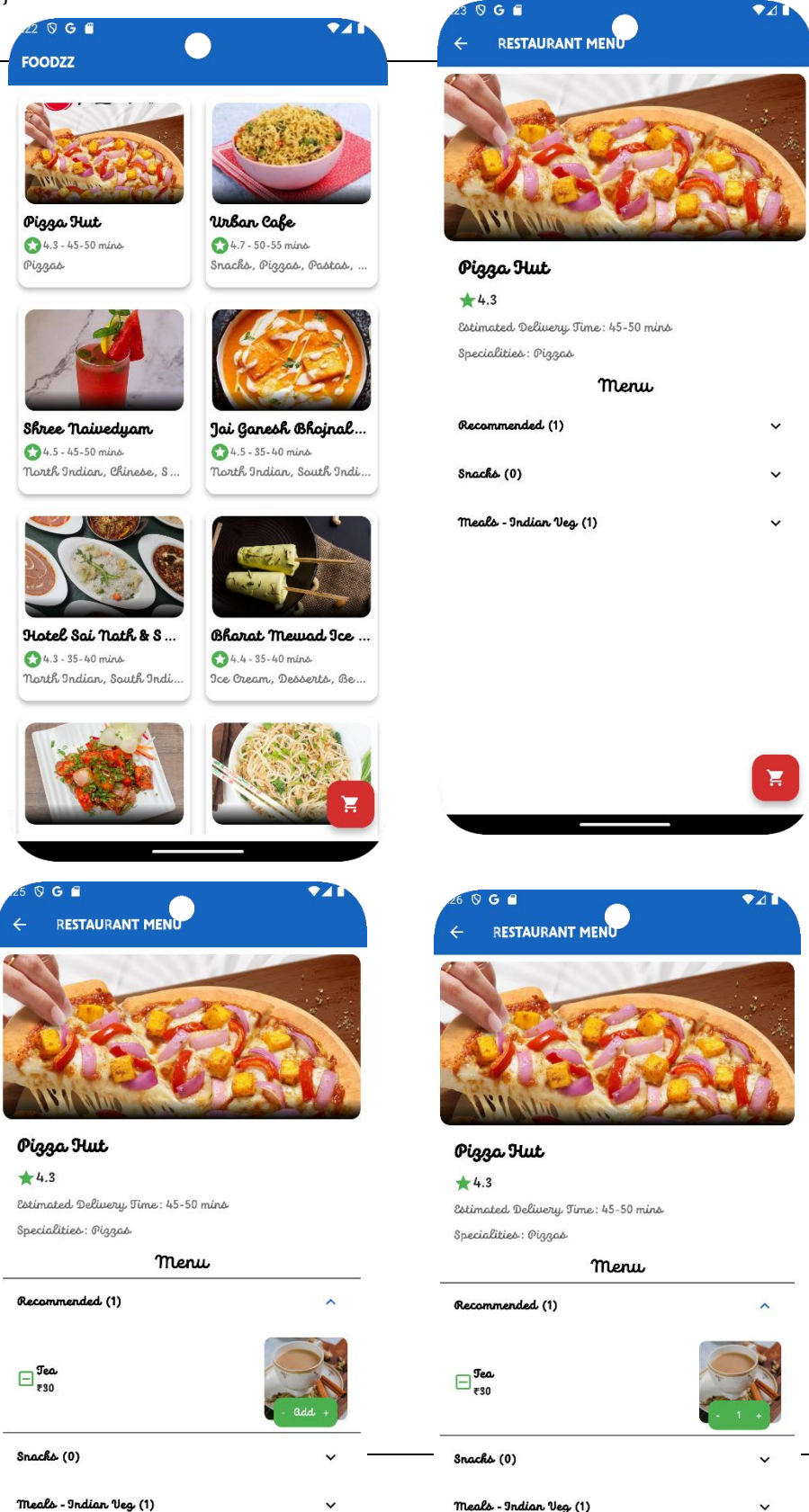
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(
        child: ScaleTransition(
          scale: _scaleAnimation,
          child: Center(
```



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
child: Lottie.asset('assets/animation/food_splash.json', width: 200, height: 200),
),
),
),
);
}
```

Screenshots





Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering



**Question and
Answers**

Answer the following Questions:

1. How did you use 60-30-10 rule in your application?

Used 60% for background, 30% for UI elements like cards, and 10% for buttons or highlights to keep the design balanced.

2. Which new elements did you use for creating UI components?

Used custom widgets, animations, bottom sheets, carousel sliders, and pull-to-refresh for better UI and user experience.

3. In pubspec.yaml file, what dependencies need to be there?

get: ^4.7.2 (State management)
lottie: ^3.3.1 (To use Lottie files)



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

	<p>4. What is the use of Splash Screen?</p> <p>It shows the logo or app name while the app is loading. Helps with branding and gives a smooth start.</p>
Conclusion	<p>Learned to use GetX for state management and navigation easily. Used Lottie to add animated illustrations and make the UI more engaging. Understood how to manage UI, navigation, and animations in a clean and efficient way. Also understood local data management.</p>