



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
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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 | Abhijit Khambekar |
| UCID | 2024510027 |
| Class | FYMCA |
| Batch | D |
| Date of Submission | |

| | |
|-------------------------------|---|
| Technology used | Visual Studio Code |
| 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:shared_preferences/shared_preferences.dart'; import 'dart:convert'; import 'dart:async'; void main() { runApp(MyApp()); } class MyApp extends StatelessWidget { @override Widget build(BuildContext context) { return MaterialApp(title: 'Tomato', theme: ThemeData(primaryColor: Colors.red[200], // 60% primary color scaffoldBackgroundColor: Colors.red[50], // Lighter shade for background colorScheme: ColorScheme.light(primary: Colors.red[200]!, // 60% primary secondary: Colors.red[900]!, // 10% accent surface: Colors.white, // 30% secondary), elevatedButtonTheme: ElevatedButtonThemeData(style: ElevatedButton.styleFrom(backgroundColor: Colors.red[900], // Accent for buttons foregroundColor: Colors.white,),), textTheme: TextTheme(bodyMedium: TextStyle(color: Colors.black87), titleLarge: TextStyle(color: Colors.red[900]), // Accent for titles),),); } }</pre> |



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```
),
  home: SplashScreen(),
);
}
}

class SplashScreen extends StatefulWidget {
  @override
  _SplashScreenState createState() => _SplashScreenState();
}

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

  @override
  void initState() {
    super.initState();
    _controller = AnimationController(
      duration: Duration(seconds: 2),
      vsync: this,
    );

    _fadeAnimation = Tween<double>(begin: 0.0, end: 1.0).animate(
      CurvedAnimation(parent: _controller, curve: Curves.easeIn),
    );

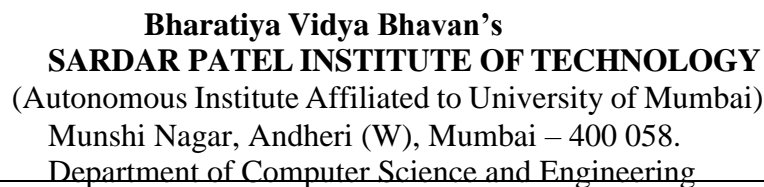
    _scaleAnimation = Tween<double>(begin: 0.5, end: 1.0).animate(
      CurvedAnimation(parent: _controller, curve: Curves.elasticOut),
    );

    _controller.forward();

    Timer(Duration(seconds: 3), () {
      Navigator.pushReplacement(
        context,
        MaterialPageRoute(builder: (context) => HomeScreen()),
      );
    });
  }

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

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.red[200], // 60% primary
      body: Stack(
        children: [
          // Background gradient
          Container(
            decoration: BoxDecoration(
              gradient: RadialGradient(
```



```
class HomeScreen extends StatefulWidget {
```



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

class _HomeScreenState extends State<HomeScreen> {
  int _selectedIndex = 0;

  static List<Widget> _widgetOptions = <Widget>[
    CuisinesTab(),
    CartTab(),
    ProfileTab(),
  ];

  void _onItemTapped(int index) {
    setState(() {
      _selectedIndex = index;
    });
    Navigator.pop(context); // Close drawer after selection
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Tomato'),
        backgroundColor: Colors.red[200], // 60% primary
      ),
      body: _widgetOptions.elementAt(_selectedIndex),
      drawer: Drawer(
        child: Container(
          color: Colors.white, // 30% secondary
          child: ListView(
            padding: EdgeInsets.zero,
            children: [
              DrawerHeader(
                decoration: BoxDecoration(
                  gradient: LinearGradient(
                    colors: [Colors.red[200]!, Colors.red[900]!], // Primary to accent
                    begin: Alignment.topLeft,
                    end: Alignment.bottomRight,
                  ),
                ),
              ),
              child: Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                mainAxisAlignment: MainAxisAlignment.end,
                children: [
                  Text(
                    'Tomato',
                    style: TextStyle(
                      color: Colors.white, // Secondary
                      fontSize: 24,
                      fontWeight: FontWeight.bold,
                    ),
                  ),
                  Text(
                    'Your Food Haven',
                    style: TextStyle(
                      color: Colors.white70,
                      fontSize: 16,
```



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```
),
),
],
),
),
ListTile(
  leading: Icon(Icons.restaurant_menu, color: Colors.red[900]), // Accent
  title: Text('Cuisines', style: TextStyle(color: Colors.black87)),
  selected: _selectedIndex == 0,
  selectedTileColor: Colors.red[100], // Light primary
  onTap: () => _onItemTapped(0),
),
ListTile(
  leading: Icon(Icons.shopping_cart, color: Colors.red[900]),
  title: Text('Cart', style: TextStyle(color: Colors.black87)),
  selected: _selectedIndex == 1,
  selectedTileColor: Colors.red[100],
  onTap: () => _onItemTapped(1),
),
ListTile(
  leading: Icon(Icons.person, color: Colors.red[900]),
  title: Text('Profile', style: TextStyle(color: Colors.black87)),
  selected: _selectedIndex == 2,
  selectedTileColor: Colors.red[100],
  onTap: () => _onItemTapped(2),
),
],
),
),
);
}
}

class Cuisine {
  final String name;
  final String description;
  final double price;
  final String imageUrl;

  Cuisine({required this.name, required this.description, required this.price,
    required this.imageUrl});
}

class CuisinesTab extends StatelessWidget {
  final List<Cuisine> cuisines = [
    Cuisine(
      name: 'Margherita Pizza',
      description: 'Classic pizza with tomato and mozzarella',
      price: 12.99,
      imageUrl: 'https://via.placeholder.com/150',
    ),
    Cuisine(
      name: 'Pasta Carbonara',
      description: 'Creamy pasta with bacon and parmesan',
      price: 14.99,
      imageUrl: 'https://via.placeholder.com/150',
    ),
    Cuisine(
```



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```
name: 'Caesar Salad',  
description: 'Fresh romaine with caesar dressing',  
price: 8.99,  
imageUrl: 'https://via.placeholder.com/150',  
)
```

```
Cuisine(  
  name: 'Grilled Salmon',  
  description: 'Fresh salmon with lemon herb sauce',  
  price: 18.99,  
  imageUrl: 'https://via.placeholder.com/150',  
)
```

```
Cuisine(  
  name: 'Tiramisu',  
  description: 'Classic Italian coffee dessert',  
  price: 6.99,  
  imageUrl: 'https://via.placeholder.com/150',  
)
```

```
];
```

```
@override
```

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

```
  return GridView.builder(  
    padding: EdgeInsets.all(10),  
    gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(  
      crossAxisCount: 1,  
      childAspectRatio: 1.6, // Adjusted to increase card height by ~14 pixels to  
fix 13-pixel overflow  
      crossAxisSpacing: 10,  
      mainAxisSpacing: 10,  
    ),  
    itemCount: cuisines.length,  
    itemBuilder: (context, index) {  
      final cuisine = cuisines[index];  
      return Card(  
        color: Colors.white, // 30% secondary  
        elevation: 4,  
        shape: RoundedRectangleBorder(borderRadius:  
BorderRadius.circular(12)),  
        child: Row(  
          crossAxisAlignment: CrossAxisAlignment.start,  
          children: [  
            ClipRRect(  
              borderRadius: BorderRadius.only(  
                topLeft: Radius.circular(12),  
                bottomLeft: Radius.circular(12),  
              ),  
              child: Image.network(  
                cuisine.imageUrl,  
                width: 120,  
                height: 120,  
                fit: BoxFit.cover,  
                errorBuilder: (context, error, stackTrace) => Container(  
                  width: 120,  
                  height: 120,  
                  color: Colors.grey[300],  
                  child: Icon(Icons.image_not_supported),  
                ),  
              ),  
            ),  
          ],  
        ),  
      ),  
    ],  
  ),  
);
```



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```
Expanded(
  child: Padding(
    padding: EdgeInsets.all(12),
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      mainAxisAlignment: MainAxisAlignment.start,
      children: [
        Text(
          cuisine.name,
          style: TextStyle(
            fontSize: 20,
            fontWeight: FontWeight.bold,
            color: Colors.red[900], // 10% accent
          ),
          overflow: TextOverflow.ellipsis,
          maxLines: 1,
        ),
        SizedBox(height: 8),
        Text(
          cuisine.description,
          style: TextStyle(fontSize: 16, color: Colors.black87),
          overflow: TextOverflow.ellipsis,
          maxLines: 2,
        ),
        SizedBox(height: 8),
        Text(
          '\${cuisine.price.toStringAsFixed(2)}',
          style: TextStyle(fontSize: 16, color: Colors.black87),
        ),
        ElevatedButton(
          style: ElevatedButton.styleFrom(
            padding: EdgeInsets.symmetric(horizontal: 16, vertical: 10),
          ),
          onPressed: () async {
            await Cart.addToCart(cuisine);
            ScaffoldMessenger.of(context).showSnackBar(
              SnackBar(content: Text('${cuisine.name} added to cart')),
            );
          },
          child: Text('Add to Cart', style: TextStyle(fontSize: 14)),
        ),
        SizedBox(height: 8), // Spacing below button
      ],
    ),
  ),
);

class CartItem {
  final Cuisine cuisine;
  int quantity;

  CartItem({required this.cuisine, this.quantity = 1});
}
```



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```
Map<String, dynamic> toJson() => {
    'cuisine': {
        'name': cuisine.name,
        'description': cuisine.description,
        'price': cuisine.price,
        'imageUrl': cuisine.imageUrl,
    },
    'quantity': quantity,
};

static CartItem fromJson(Map<String, dynamic> json) {
    return CartItem(
        cuisine: Cuisine(
            name: json['cuisine']['name'],
            description: json['cuisine']['description'],
            price: json['cuisine']['price'],
            imageUrl: json['cuisine']['imageUrl'],
        ),
        quantity: json['quantity'],
    );
}

class Cart {
    static List<CartItem> items = [];

    static Future<void> loadCart() async {
        final prefs = await SharedPreferences.getInstance();
        final cartData = prefs.getString('cart');
        if (cartData != null) {
            final List<dynamic> jsonData = jsonDecode(cartData);
            items = jsonData.map((item) => CartItem.fromJson(item)).toList();
        }
    }

    static Future<void> saveCart() async {
        final prefs = await SharedPreferences.getInstance();
        final jsonData = items.map((item) => item.toJson()).toList();
        await prefs.setString('cart', jsonEncode(jsonData));
    }

    static Future<void> addToCart(Cuisine cuisine) async {
        await loadCart();
        final existingItem = items.firstWhere(
            (item) => item.cuisine.name == cuisine.name,
            orElse: () => CartItem(cuisine: cuisine),
        );
        if (!items.contains(existingItem)) {
            items.add(existingItem);
        } else {
            existingItem.quantity++;
        }
        await saveCart();
    }

    static Future<void> updateQuantity(CartItem item, int delta) async {
        await loadCart();
        final cartItem = items.firstWhere((i) => i.cuisine.name == item.cuisine.name);
```




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```
cartItem.quantity += delta;
if (cartItem.quantity <= 0) {
    items.remove(cartItem);
}
await saveCart();
}

static Future<void> clearCart() async {
    items.clear();
    await saveCart();
}

static double getTotalCost() {
    return items.fold(0.0, (sum, item) => sum + (item.cuisine.price *
item.quantity));
}

class CartTab extends StatefulWidget {
    @override
    _CartTabState createState() => _CartTabState();
}

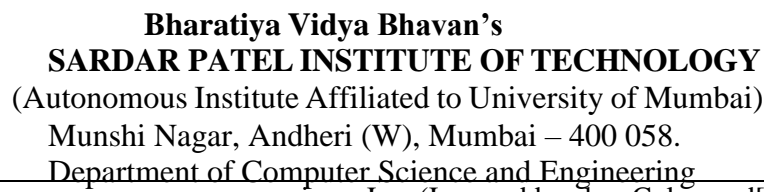
class _CartTabState extends State<CartTab> {
    @override
    void initState() {
        super.initState();
        Cart.loadCart().then((_) => setState(() {}));
    }

    @override
    Widget build(BuildContext context) {
        return Column(
            children: [
                Expanded(
                    child: Cart.items.isEmpty
                        ? Center(child: Text('No cuisines added', style: TextStyle(color:
Colors.black87)))
                        : GridView.builder(
                            padding: EdgeInsets.all(10),
                            gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
                                crossAxisCount: 1,
                                childAspectRatio: 1.6, // Adjusted to increase card height by ~14
                                pixels to fix 13-pixel overflow
                                crossAxisSpacing: 10,
                                mainAxisSpacing: 10,
                            ),
                            itemCount: Cart.items.length,
                            itemBuilder: (context, index) {
                                final item = Cart.items[index];
                                return Card(
                                    color: Colors.white, // 30% secondary
                                    elevation: 4,
                                    shape: RoundedRectangleBorder(borderRadius:
BorderRadius.circular(12)),
                                    child: Row(
                                        crossAxisAlignment: CrossAxisAlignment.start,
                                        children: [
                                            ClipRRect(
```



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| | |
|--|--|
| | <pre>borderRadius: BorderRadius.only(topLeft: Radius.circular(12), bottomLeft: Radius.circular(12),), child: Image.network(item.cuisine.imageUrl, width: 120, height: 120, fit: BoxFit.cover, errorBuilder: (context, error, stackTrace) => Container(width: 120, height: 120, color: Colors.grey[300], child: Icon(Icons.image_not_supported),),),), Expanded(child: Padding(padding: EdgeInsets.all(12), child: Column(crossAxisAlignment: CrossAxisAlignment.start, mainAxisAlignment: MainAxisAlignment.start, children: [Text(item.cuisine.name, style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold, color: Colors.red[900], // 10% accent), overflow: TextOverflow.ellipsis, maxLines: 1,), SizedBox(height: 8), Text(item.cuisine.description, style: TextStyle(fontSize: 16, color: Colors.black87), overflow: TextOverflow.ellipsis, maxLines: 2,), SizedBox(height: 8), Text('\\${item.cuisine.price.toStringAsFixed(2)}', style: TextStyle(fontSize: 16, color: Colors.black87),), Row(children: [IconButton(icon: Icon(Icons.remove, color: Colors.red[900]), // onPressed: () async { await Cart.updateQuantity(item, -1); setState(() {}); },), Text('\\${item.quantity}', style: TextStyle(color: Colors.black87, fontSize: 16)), IconButton(</pre> |
|--|--|



```

        icon: Icon(Icons.add, color: Colors.red[900]), // Accent
        onPressed: () async {
          await Cart.updateQuantity(item, 1);
          setState(() {});
        },
      ),
    ],
  ),
  SizedBox(height: 8), // Spacing below buttons
],
),
),
),
),
),
);
},
),
),
if (Cart.items.isNotEmpty)
  Padding(
    padding: EdgeInsets.all(10),
    child: Row(
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
      children: [
        Text(
          'Total: \${\$}{Cart.getTotalCost().toStringAsFixed(2)}',
          style: TextStyle(
            fontSize: 18,
            fontWeight: FontWeight.bold,
            color: Colors.red[900], // Accent
          ),
        ),
        ElevatedButton(
          onPressed: () async {
            showDialog(
              context: context,
              builder: (context) => AlertDialog(
                backgroundColor: Colors.white, // 30% secondary
                title: Text('Order Confirmed', style: TextStyle(color:
Colors.red[900])), // Accent
                content: Text('Your order will be delivered to the given address
shortly.'),
                actions: [
                  TextButton(
                    onPressed: () async {
                      await Cart.clearCart();
                      Navigator.pop(context);
                      setState(() {});
                    },
                    child: Text('OK', style: TextStyle(color: Colors.red[900])), //
Accent
                  ),
                ],
              ),
            );
          },
          child: Text('Buy Now', style: TextStyle(fontSize: 16)),
        ),
      ],
    ),
  ),

```



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```
    ],
    ),
    ),
    ],
    );
}
}

class ProfileTab extends StatefulWidget {
  @override
  _ProfileTabState createState() => _ProfileTabState();
}

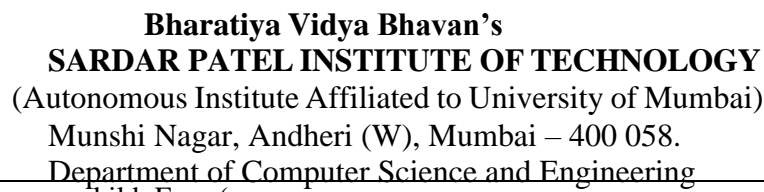
class _ProfileTabState extends State<ProfileTab> {
  final _formKey = GlobalKey<FormState>();
  final _nameController = TextEditingController();
  final _addressController = TextEditingController();
  final _contactController = TextEditingController();
  final _emailController = TextEditingController();

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

  Future<void> _loadProfile() async {
    final prefs = await SharedPreferences.getInstance();
    setState(() {
      _nameController.text = prefs.getString('name') ?? "";
      _addressController.text = prefs.getString('address') ?? "";
      _contactController.text = prefs.getString('contact') ?? "";
      _emailController.text = prefs.getString('email') ?? "";
    });
  }

  Future<void> _saveProfile() async {
    if (_formKey.currentState!.validate()) {
      final prefs = await SharedPreferences.getInstance();
      await prefs.setString('name', _nameController.text);
      await prefs.setString('address', _addressController.text);
      await prefs.setString('contact', _contactController.text);
      await prefs.setString('email', _emailController.text);
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text('Profile saved')),
      );
    }
  }

  @override
  Widget build(BuildContext context) {
    return Padding(
      padding: EdgeInsets.all(16.0),
      child: Card(
        color: Colors.white, // 30% secondary
        elevation: 4,
        shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(12)),
        child: Padding(
          padding: EdgeInsets.all(16.0),
```



```
child: Form(
  key: _formKey,
  child: Column(
    children: [
      TextFormField(
        controller: _nameController,
        decoration: InputDecoration(
          labelText: 'Name',
          labelStyle: TextStyle(color: Colors.red[900]), // Accent
          focusedBorder: UnderlineInputBorder(
            borderSide: BorderSide(color: Colors.red[900]!), // Accent
          ),
        ),
        validator: (value) {
          if (value == null || value.isEmpty) {
            return 'Please enter your name';
          }
          return null;
        },
      ),
      TextFormField(
        controller: _addressController,
        decoration: InputDecoration(
          labelText: 'Address',
          labelStyle: TextStyle(color: Colors.red[900]),
          focusedBorder: UnderlineInputBorder(
            borderSide: BorderSide(color: Colors.red[900]!),
          ),
        ),
        validator: (value) {
          if (value == null || value.isEmpty) {
            return 'Please enter your address';
          }
          return null;
        },
      ),
      TextFormField(
        controller: _contactController,
        decoration: InputDecoration(
          labelText: 'Contact No',
          labelStyle: TextStyle(color: Colors.red[900]),
          focusedBorder: UnderlineInputBorder(
            borderSide: BorderSide(color: Colors.red[900]!),
          ),
        ),
        keyboardType: TextInputType.phone,
        validator: (value) {
          if (value == null || value.isEmpty) {
            return 'Please enter your contact number';
          }
          return null;
        },
      ),
      TextFormField(
        controller: _emailController,
        decoration: InputDecoration(
          labelText: 'Email',
          labelStyle: TextStyle(color: Colors.red[900]),
          focusedBorder: UnderlineInputBorder(
```



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|-----------------------------|---|
| | <pre> borderSide: BorderSide(color: Colors.red[900]!),),), keyboardType: TextInputType.emailAddress, validator: (value) { if (value == null value.isEmpty) { return 'Please enter your email'; } if (!RegExp(r'^[\w-\.]++@([\w-]+\.)+[\w-]{2,4}\$').hasMatch(value)) { return 'Please enter a valid email'; } return null; },),),),),),),); } @override void dispose() { _nameController.dispose(); _addressController.dispose(); _contactController.dispose(); _emailController.dispose(); super.dispose(); } } </pre> |
| Screenshots | |
| Question and Answers | <p>Answer the following Questions:</p> <ol style="list-style-type: none"> How did you use 60-30-10 rule in your application? <p>Solu: The 60-30-10 color rule is applied in the "Tomato" application by using a primary red shade (Colors.red[200]) for 60% of the UI, such as the app bar, splash screen background, and scaffold background. A secondary white color (Colors.white) covers 30% of the UI, used in cards, drawer backgrounds, and profile form backgrounds. The accent color (Colors.red[900]) constitutes 10%, enhancing buttons, icons, text titles, and highlights for visual emphasis.</p> <ol style="list-style-type: none"> Which new elements did you use for creating UI components? <p>Solu: The application incorporates new UI elements like RadialGradient for a dynamic splash screen background and LinearGradient in the drawer header for visual appeal. ScaleTransition and FadeTransition are used for smooth animations on the splash</p> |



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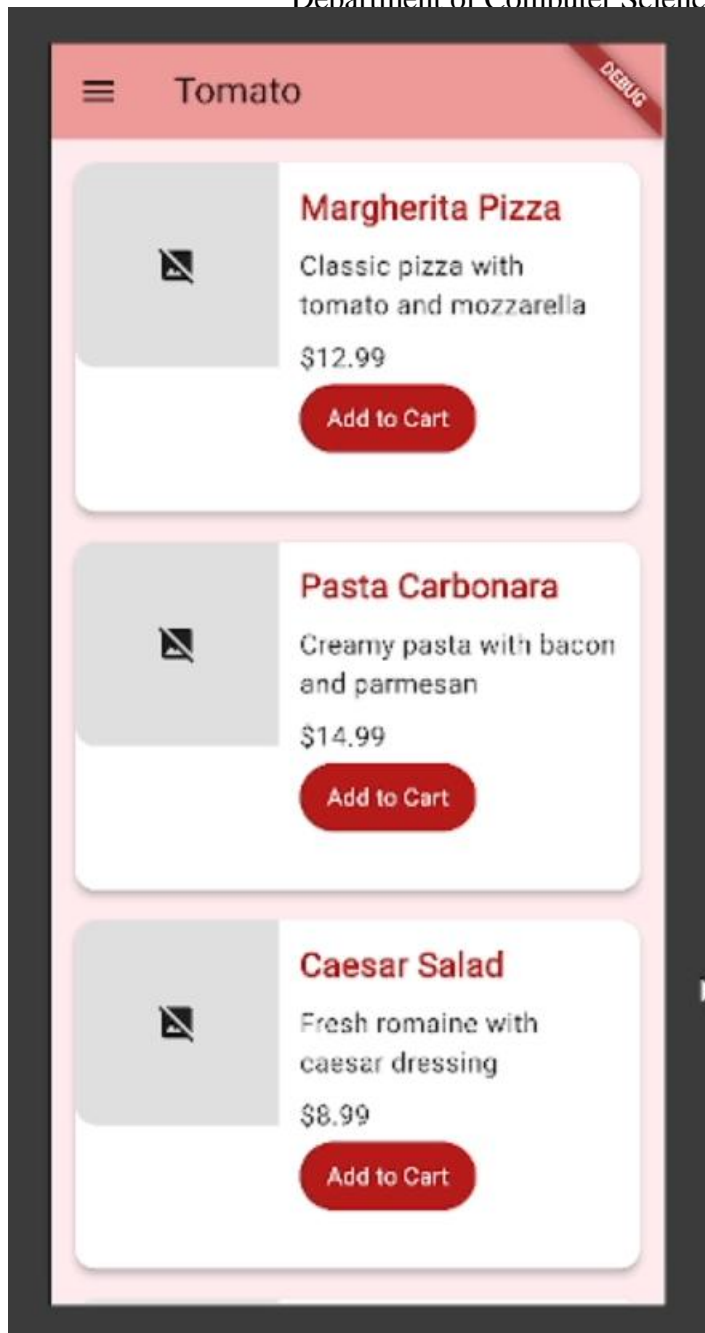
| | |
|-------------------|--|
| | <p>screen's icon and text. Additionally, GridView.builder is utilized to create a responsive grid layout for displaying cuisines and cart items efficiently.</p> <p>3. In pubspec.yaml file, what dependencies need to be there?</p> <p>Solu: The pubspec.yaml file must include the flutter dependency as the core framework. The shared_preferences dependency is required for persistent storage of cart and profile data. Optionally, the http dependency may be needed for loading network images, as the app uses placeholder image URLs. These dependencies ensure the app's functionality for storage and potential network operations.</p> <p>4. What is the use of Splash Screen?</p> <p>Solu: The splash screen in the "Tomato" app serves as a branded introduction, displaying the app's logo and tagline with fade and scale animations. It provides a polished first impression, engaging users during the app's initialization. The screen transitions to the home screen after a 3-second delay, enhancing the user experience. It also allows time for initial data loading if needed.</p> |
| Conclusion | Learned how to create a splashy splash screen – understand the logic of creating an add cart successfully. |

Screenshots:



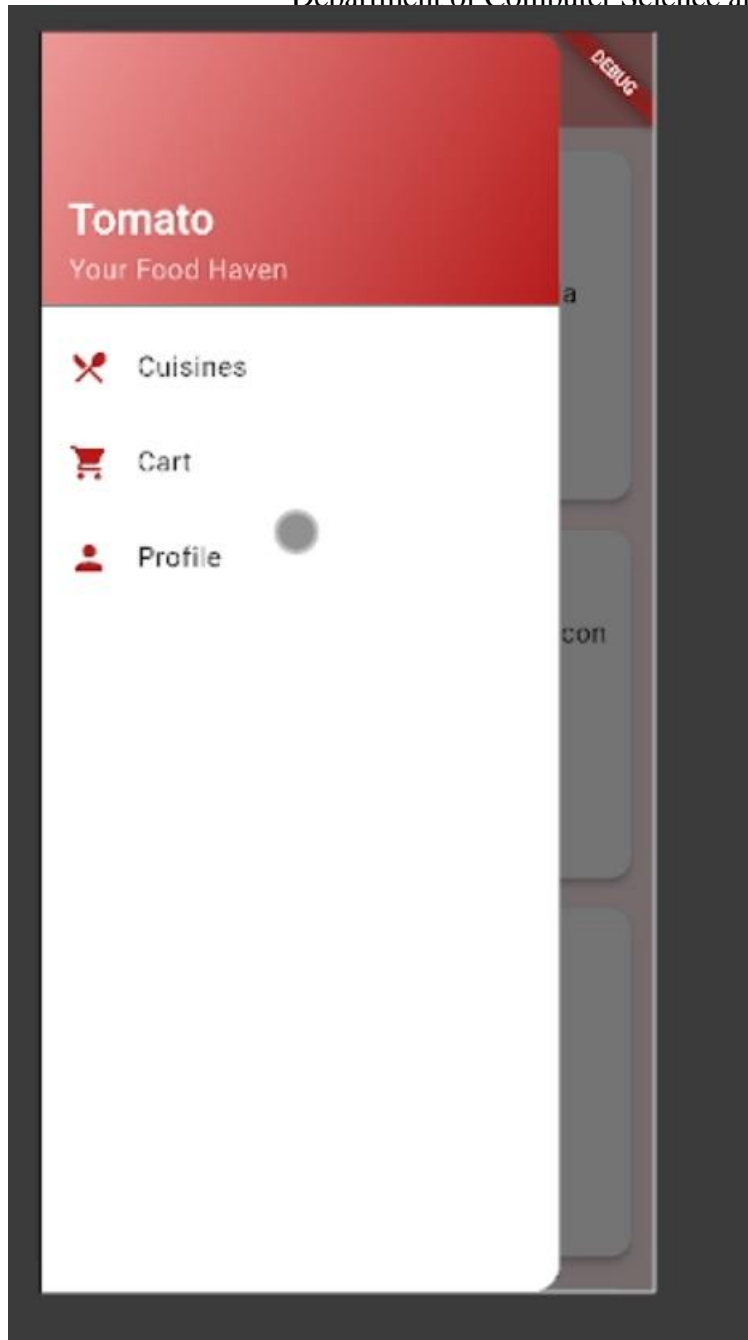
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The image shows a mobile application interface for 'Tomato'. The app has a red header bar with a hamburger menu icon on the left and the word 'Tomato' in the center. A red diagonal banner in the top right corner says 'DEBUG'. Below the header is a white rounded rectangle containing a profile form. The form has four text input fields labeled 'Name', 'Address', 'Contact No', and 'Email'. A red button labeled 'Save Profile' is positioned below the 'Email' field. The entire app interface is displayed within a black frame.



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Tomato

DEBUG

Name
Abhijit

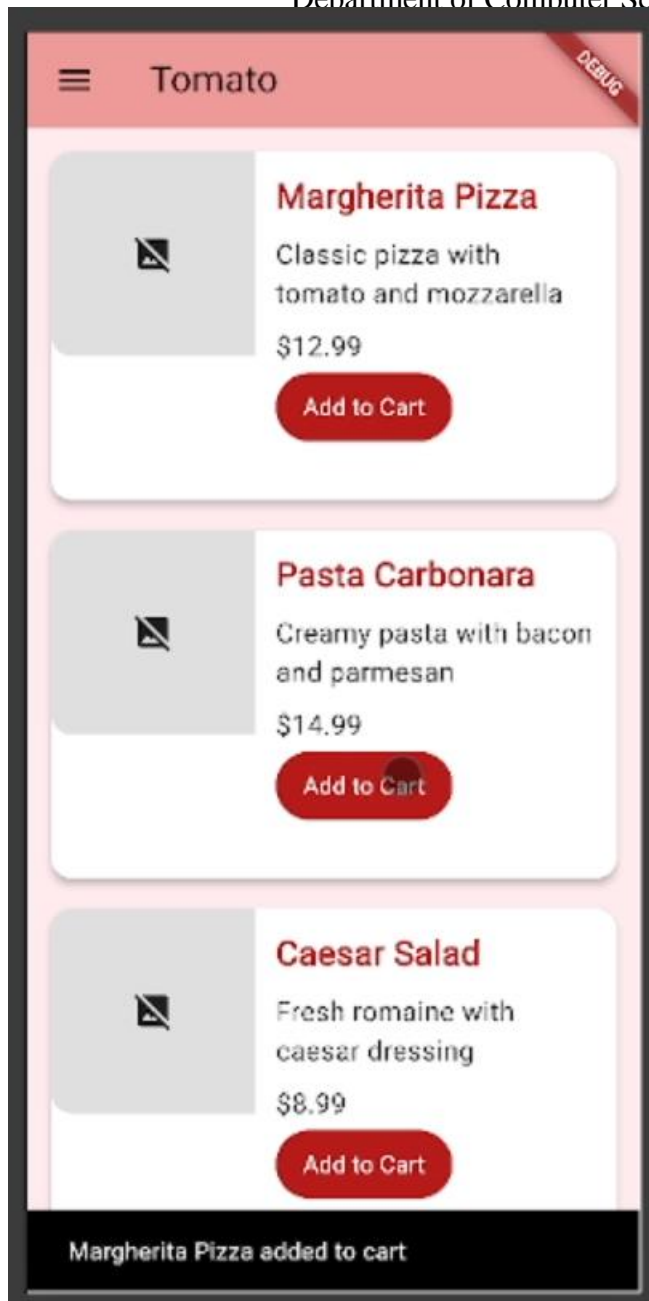
Address
100th charming Awenue

Contact No
9011593056

Email
test@ok.com

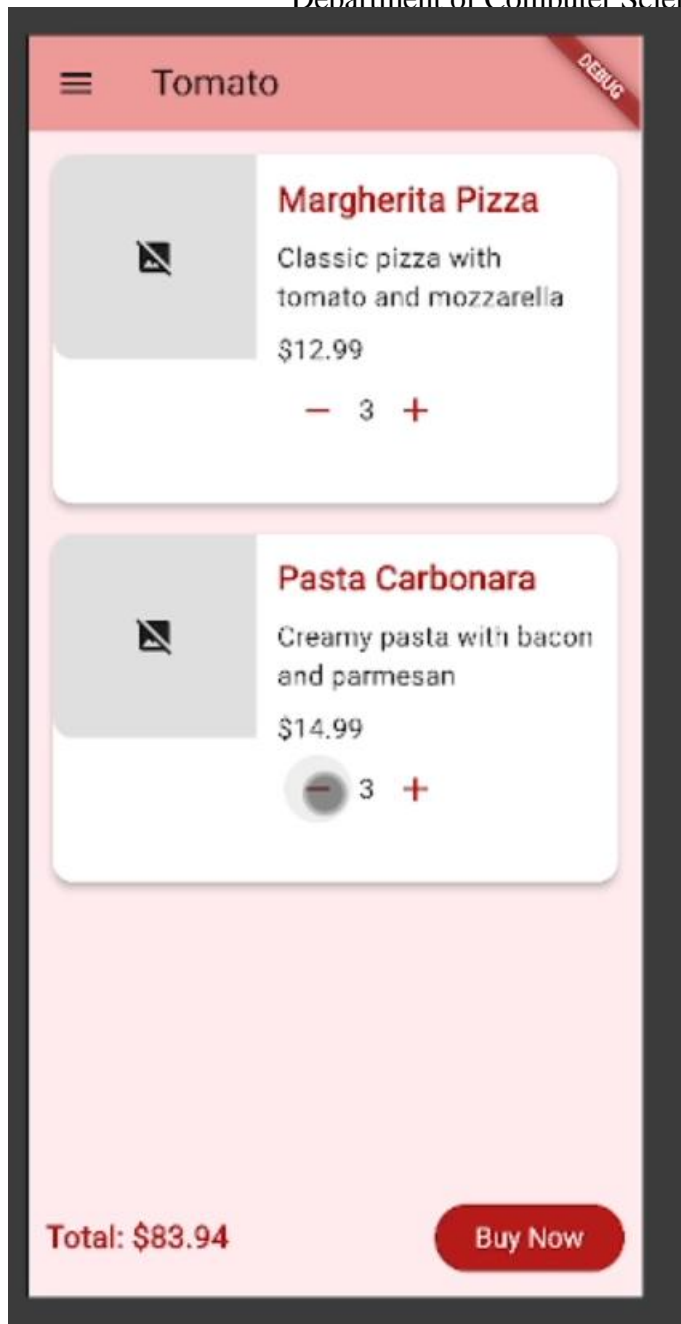
Save Profile

Profile saved



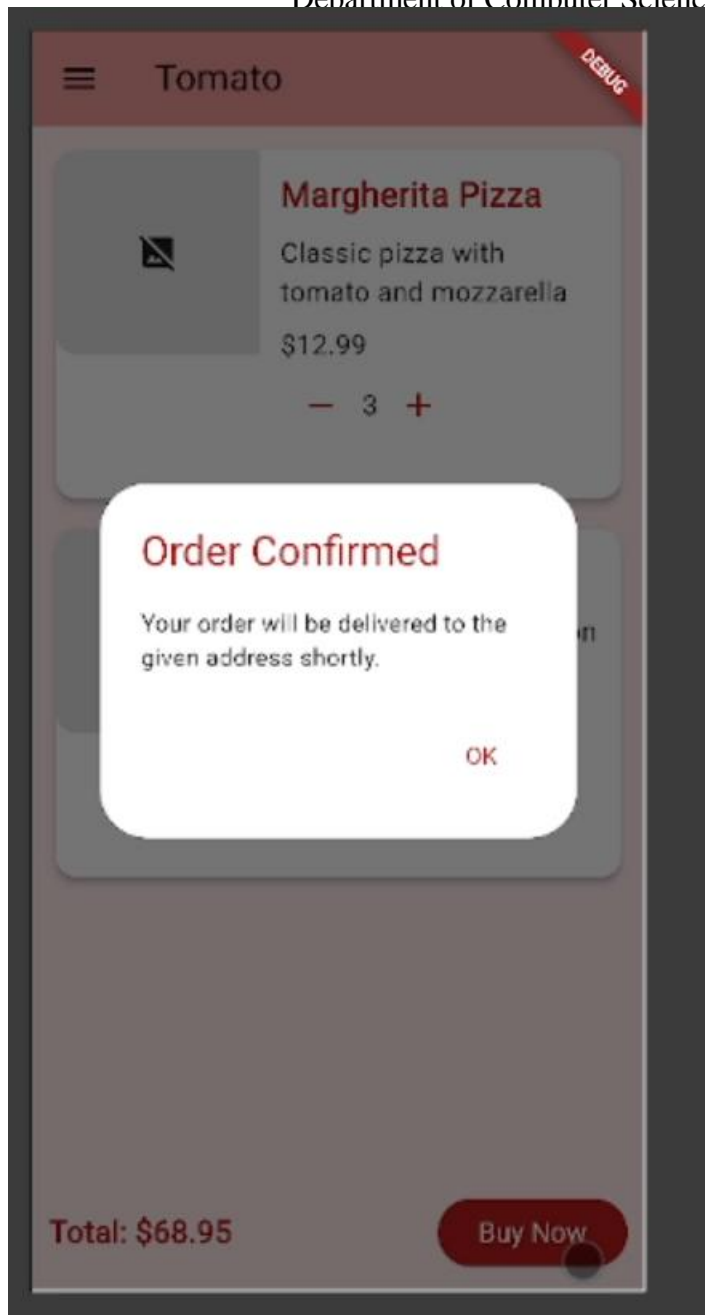


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