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PROJECT REPORT



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Section: SE 5-2

Presented to :

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FOODDELIGHT - Project Report

Project Title

FOODDELIGHT - Food Delivery Mobile Application

Project Description

FOODDELIGHT is a modern, user-friendly food delivery mobile application developed using Flutter framework. The application allows users to browse various food categories, view food details, add items to cart, and place orders. The app features a complete authentication system with Firebase, allowing users to sign up, sign in, and manage their profiles.

Platform

Android

2. PROBLEM STATEMENT

In today's fast-paced world, people prefer convenient ways to order food from their favorite restaurants. Traditional methods of ordering food via phone calls are time-consuming and error-prone. There is a need for a digital solution that allows users to:

- Browse food menus easily
- View detailed information about food items
- Place orders conveniently
- Have a personalized experience with user accounts
- FOODDELIGHT addresses these challenges by providing an intuitive mobile application for food ordering.



3. OBJECTIVES

Sr. No	Objective
1	To develop a cross-platform mobile application using Flutter
2	To implement user authentication using Firebase
3	To create an intuitive UI/UX for food browsing and ordering
4	To implement a shopping cart system for order management
5	To provide categorized food menus (Meals, Desserts, Snacks)
6	To enable theme customization (Light/Dark mode)
7	To store user data securely in cloud database



4. TECHNOLOGIES USED

Technology	Purpose
Flutter	Cross-platform UI framework
Dart	Programming language
Material Design	UI components and design system

Backend & Database

Technology	Purpose
Firebase Authentication	User sign up, sign in, password reset
Cloud Firestore	NoSQL database for storing user data



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Technology	Purpose
Google Sign-In	Social authentication

State Management

Technology	Purpose
Provider	State management for theme switching

Additional Packages

Package	Version	Purpose
firebase_core	^3.6.0	Firebase initialization
firebase_auth	^5.3.1	User authentication



Package	Version	Purpose
cloud_firestore	^5.4.4	Database operations
google_sign_in	^6.2.1	Google authentication
provider	^6.1.1	State management
lottie	^2.7.0	Animations

Development Tools

Tool	Purpose
Android Studio	IDE
Firebase Console	Backend management



Tool	Purpose
Git	Version control
Flutter DevTools	Debugging

5. APP FEATURES

5.1 Authentication Features

Feature	Description
Email/Password Sign Up	Users can create account with email and password



Feature	Description
Email/Password Sign In	Users can login with credentials
Google Sign-In	One-tap sign in with Google account
Password Reset	Forgot password functionality via email
Sign Out	Secure logout from application

5.2 Food Browsing Features

Feature	Description
Categorized Menu	Foods organized in Meals, Desserts, Snacks tabs
Food Cards	Attractive cards showing food image, name, description, price



Feature	Description
Food Details	Detailed page with ingredients, nutrition info, preparation time
Search & Browse	Easy navigation through food items

5.3 Cart & Order Features

Feature	Description
Add to Cart	Add food items to shopping cart
Cart Management	Increase/decrease quantity, remove items
Price Calculation	Automatic subtotal, tax, and total calculation
Checkout	Order confirmation and placement



Feature	Description
Cart Badge	Real-time cart item count on navigation bar

5.4 User Profile Features

Feature	Description
Profile Display	Shows user name, email, profile picture
Theme Settings	Switch between Light, Dark, System theme
Privacy Policy	View app privacy policy
Account Management	Logout functionality



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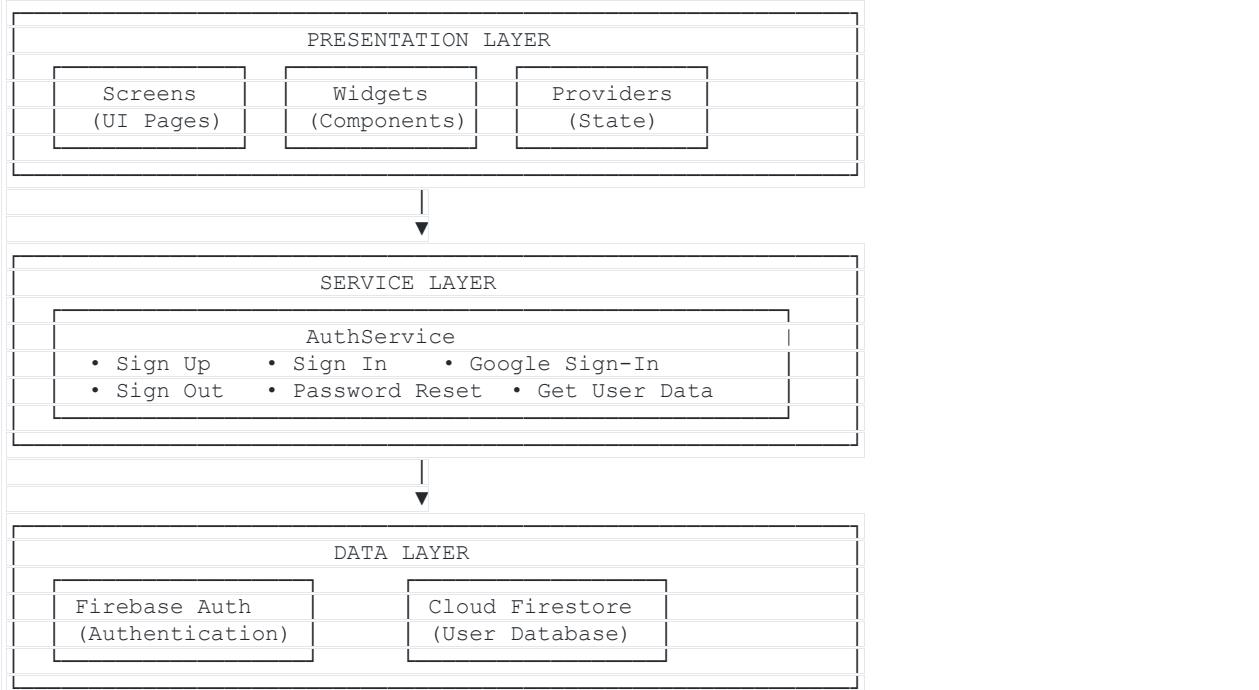
5.5 UI/UX Features

Feature	Description
Splash Screen	Animated welcome screen with Lottie animation
Responsive Design	Works on different screen sizes
Theme Support	Light and Dark mode
Smooth Navigation	Intuitive bottom navigation bar
Loading States	Loading indicators during data fetch



6. APP ARCHITECTURE

Architecture Pattern



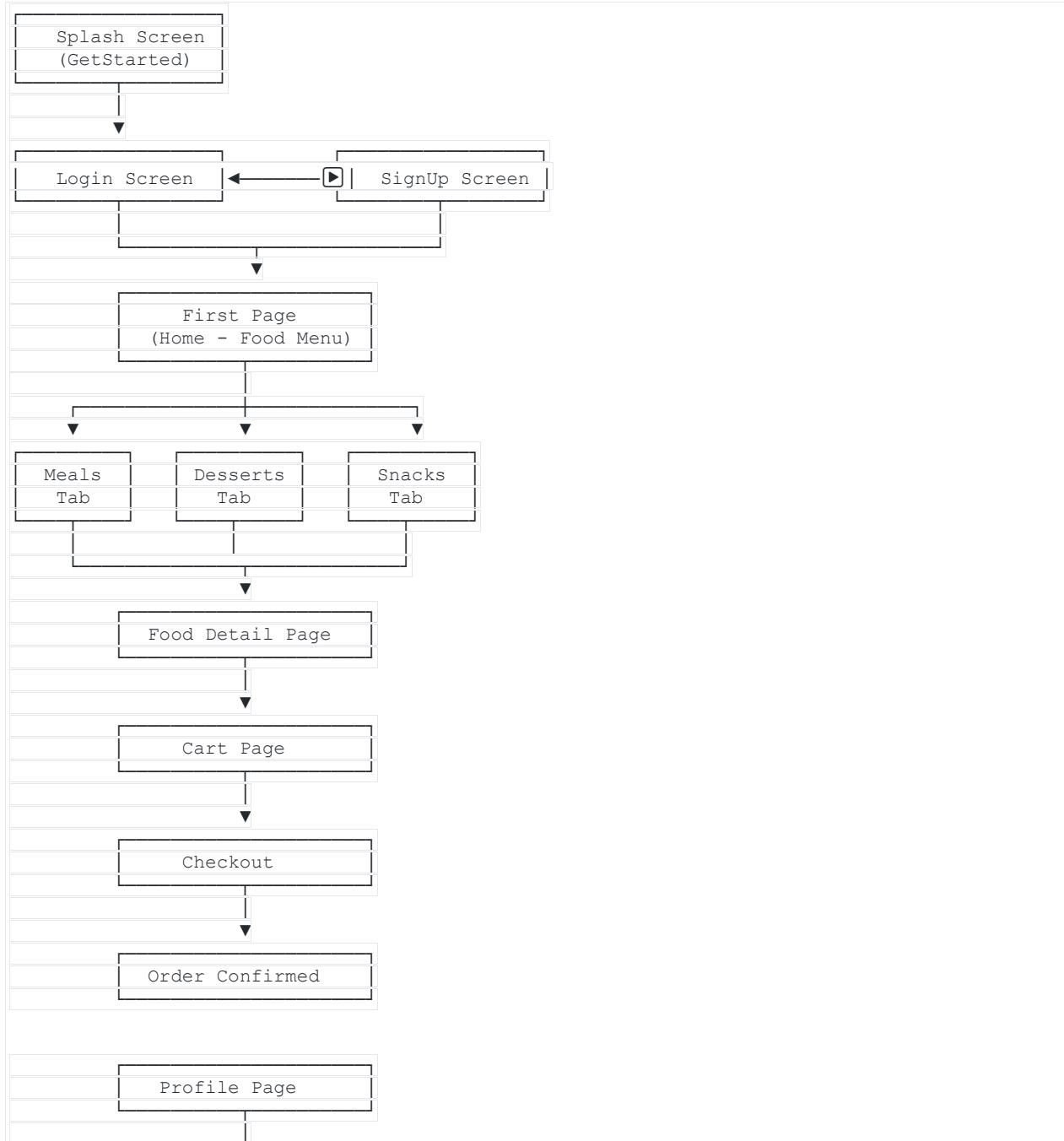
Data Flow Diagram

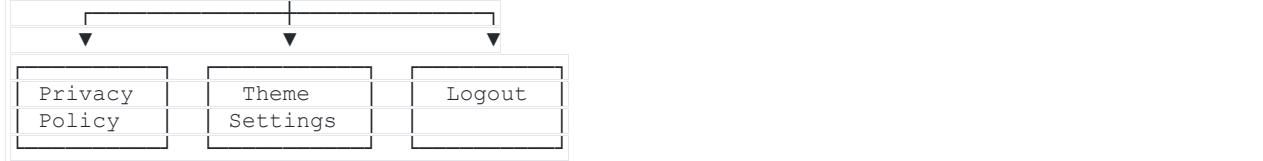




7. APP SCREENS & FLOW

7.1 App Flow Diagram





7.2 Screen Descriptions

Screen	Description	Features
Splash Screen (GetStarted)	Welcome screen with animation	Lottie animation, Get Started button
Login Screen	User authentication	Email/password input, Google sign-in, Forgot password
SignUp Screen	New user registration	Name, email, password fields, Google sign-up
First Page (Home)	Main food browsing	3 category tabs, food grid, bottom navigation
Food Detail Page	Detailed food view	Image, description, ingredients, nutrition, add to cart



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Screen	Description	Features
Cart Page	Shopping cart	Item list, quantity control, price summary, checkout
Profile Page	User profile	User info, settings, privacy policy, logout
Theme Settings	Theme customization	Light, Dark, System mode options
Privacy Policy	Legal information	App privacy policy details



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We help you to find best and
Delicious Food



Get Started



[Sign In](#) [Sign up](#)

E-mail address



hammadgamer813@gmail.com

Password



000000



[Forgot Password?](#)

Login

OR

Sign in Using:



Sign in with Google



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Hello, Hammad
What you want to eat today?

Meals Desserts Snacks



Spicy Noodles
Delicious spicy noodles with extra chili flavor
RS 1000 



Pasta
Delicious, creamy pasta made with rich sauce
RS 400 



Chicken Biryani
Chicken Alu Biryani with special spices
Rs 300 



Shinwari Karahi
Traditional Shinwari-style chicken karahi with rich spices
RS 3000 

 Home   Account



★★★★★ 4.5 (120)

Rs 1000

Description

Authentic Asian-style noodles cooked with fresh vegetables, spicy chili sauce, and a blend of special herbs. Perfectly balanced with crispy tofu and spring onions.

Ingredients

Noodles

Bell Peppers

Carrots

Spring Onions

Tofu

Soy Sauce

Total Price

Rs 1000

 Add to Cart



8. FUTURE ENHANCEMENTS

Feature	Description	Priority
Order History	View past orders	High
Real-time Order Tracking	Track order status	High
Payment Integration	Online payment (JazzCash, EasyPaisa)	High
Push Notifications	Order updates, promotions	Medium
Search Functionality	Search for specific food items	Medium
Favorites	Save favorite food items	Medium
Address Management	Multiple delivery addresses	Medium



Feature	Description	Priority
Reviews & Ratings	Rate and review food items	Low
Promo Codes	Discount coupons	Low
Multi-language Support	Urdu, English	Low

9. CONCLUSION

FOODDELIGHT is a comprehensive food delivery mobile application that successfully demonstrates the integration of modern mobile development technologies. The application provides a seamless user experience for browsing food items, managing orders, and handling user authentication.
