Sumago Infotech Pvt. Ltd.

SCOPE

Strive With Technology...!

Project Title

FastFood- Food Order and Delivery Application

Submitted By

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Course

Diploma in Computer Engineering – Final Year

Institutes

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Project Guide

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1. Introduction

This project focuses on developing a user-friendly, single-restaurant food delivery Android application designed to offer a seamless ordering experience. It enables customers to browse the menu, place orders, and track them in real time, ensuring transparency and convenience. With integrated cash-on-delivery payment support, the system caters to users who prefer offline transactions, making it ideal for local restaurants aiming to digitize their delivery process.

2. Objective of the Project

- Provide a simple and efficient food ordering system for a single restaurant through an Android mobile application.
- Enable real-time delivery tracking using interactive maps to enhance order transparency.
- Support cash-on-delivery (COD) payment method to make the system accessible to all users.
- Improve customer convenience by allowing them to browse menus, place orders, and track deliveries from anywhere.
- Assist delivery partners with location tracking and route guidance for timely deliveries.
- Enhance communication between the restaurant, customers, and delivery staff.
- Offer a clean and user-friendly interface to ensure a smooth user experience for both customers and delivery staff.

3. Tools & Technologies Used

3.1 Frontend Technologies

- React Native
- React Navigation
- React Native Vector Icons
- Linear Gradient
- React Native Maps

3.2 Backend Services

- Firebase Realtime Database

- Firebase Cloud Messaging
- Firebase Storage
- Firebase Authentication

3.3 Development Tools

- Visual Studio Code
- Android Studio
- Git & GitHub
- Postman

4. Key Features

4.1 User Authentication

- Email/Password login
- Password reset
- Profile management
- Session persistence

4.2 Food Discovery

- Category-based browsing
- Search functionality
- Popular items section
- Special offers display

4.3 Order Management

- Shopping cart
- Order tracking
- Payment integration
- Order history

4.4 Real-time Features

- Live delivery tracking
- Push notifications

5. Technical Implementation

5.1 Project Structure

```
SpeedyBite/
├── src/
│   ├── Screens/                 # All app screens
│   │   ├── Home.jsx             # Main home screen
│   │   ├── Login.jsx            # User authentication
│   │   ├── SignUp.jsx           # User registration
│   │   ├── OrderScreen.jsx      # Order placement
│   │   ├── PaymentScreen.jsx    # Payment processing
│   │   ├── ChatBot.jsx          # AI customer support
│   │   └── ...                  # Other screens
│   ├── Navigators/              # Navigation configuration
│   │   └── MainTabNavigator.jsx
│   └── img/                     # Image assets
├── android/                     # Android-specific files
├── ios/                        # iOS-specific files
├── App.jsx                     # Main app component
└── package.json               # Dependencies and scripts
```

6. Screenshots and UI Components

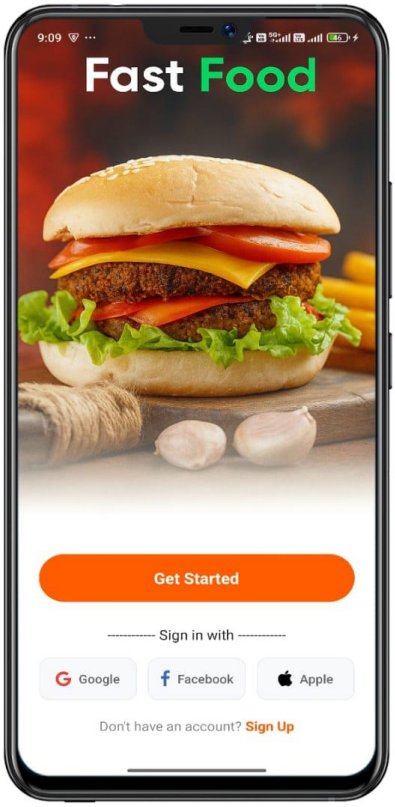
5.1 Welcome Screen

Purpose:

The Splash Screen is the first screen visible when the user opens the **FastFood** application. It serves as a warm introduction to the app's purpose and visual theme, creating the first impression of the food delivery experience.

Features:

- **App Branding** – The title "Fast Food" is prominently displayed at the top in stylish fonts, using bold and colored text (white and green) to highlight freshness and speed.
- **High-Quality Food Image** – A delicious burger image is shown, symbolizing the app's core service – delivering fresh and tasty food.
- **Get Started Button** – A large orange "Get Started" button is placed centrally to guide users toward login or signup.
- **Social Media Login Options** – The screen includes options to sign in with:
  - Google
  - Facebook
  - Apple ID
- **Sign Up Prompt** – At the bottom, there is a prompt for new users to sign up if they don't already have an account.



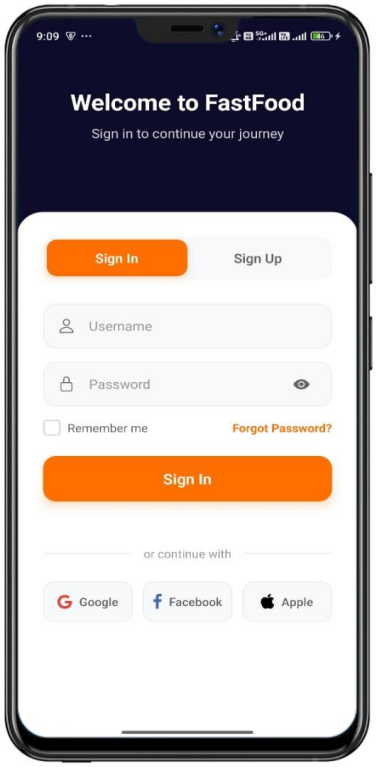
5.2 Sign In Screens

Purpose:

The Login Screen allows registered users to securely sign in to the FastFood app using their credentials. It ensures that only authenticated users can access the app's personalized features like food ordering, cart, and order history.

Features:

- **Welcome Message** – Displays a welcoming heading: “Welcome to FastFood” with a sub-heading guiding the user to sign in and continue.
- **Tabbed Navigation** – At the top, users can switch between **Sign In** and **Sign Up** tabs for easy navigation.
- **Input Fields**:
  - **Username Field**: Allows the user to enter their registered username.
  - **Password Field**: Secure field to input password, with a **visibility toggle (eye icon)**.
- **Forgot Password Link** – Redirects users to reset password if forgotten.
- **Primary Login Button** – Prominent orange "Sign In" button used to initiate login.



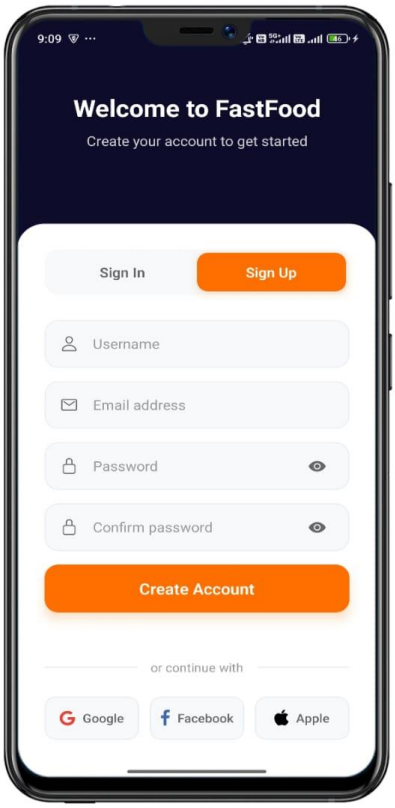
5.3 Sign Up Screens

Purpose:

The SignUp screen allows new users to register themselves on the FastFood app. It enables users to create an account by entering their personal details securely, which are required to place orders and receive deliveries.

Features:

- **Welcome Message** – Displays: “Welcome to FastFood” with a sub-heading prompting the user to “Create your account to get started.”
- **Tabbed UI** – The user can toggle between **Sign In** and **Sign Up** using the tabs at the top.
- **Input Fields**:
    - **Username**: For entering the display name.
    - **Email Address**: Required for account creation and authentication.
    - **Password**: Secure password input with visibility toggle.
    - **Confirm Password**: Ensures both passwords match.
- **Create Account Button** – A large orange button labeled "Create Account" that initiates the signup process.



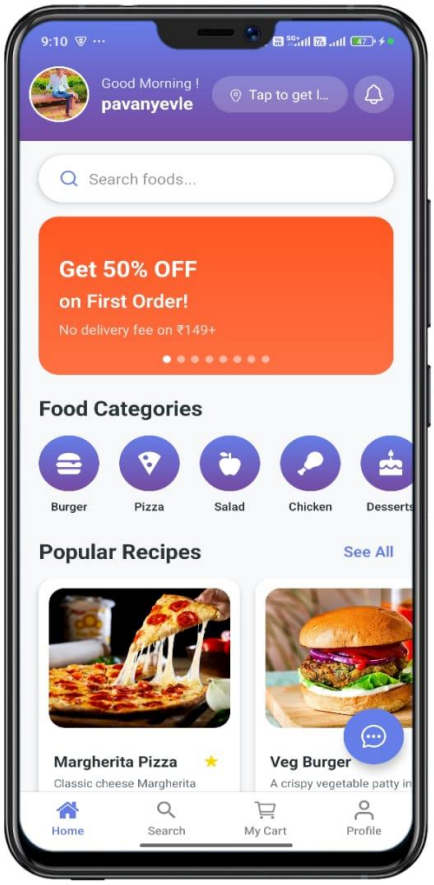
6.4 Home Screens

Purpose:

The Home Screen serves as the central dashboard of the FastFood application. It helps users quickly explore various food categories, view special offers, discover popular recipes, and begin ordering with ease.

Features:

- **Personalized Greeting** – Displays user name and time-based greeting like "Good Evening!" along with user location.
- **Search Bar** – Users can search for food items or restaurants using the prominent search input field.
- **Promotional Banner** – Displays rotating offer banners like “Snacks Hour – Up to 30% OFF” to attract user attention to deals.
- **Food Categories Section** – Horizontally scrollable section showing icons for:
    - Burger
    - Pizza
    - Salad
    - Chicken
    - Desserts
- **Popular Recipes Section** – Cards showing trending or most ordered food items with images and names.
- **Bottom Navigation Bar** – Tabs for quick access:
    - Home
    - Search
    - Cart
    - Orders
    - Profile



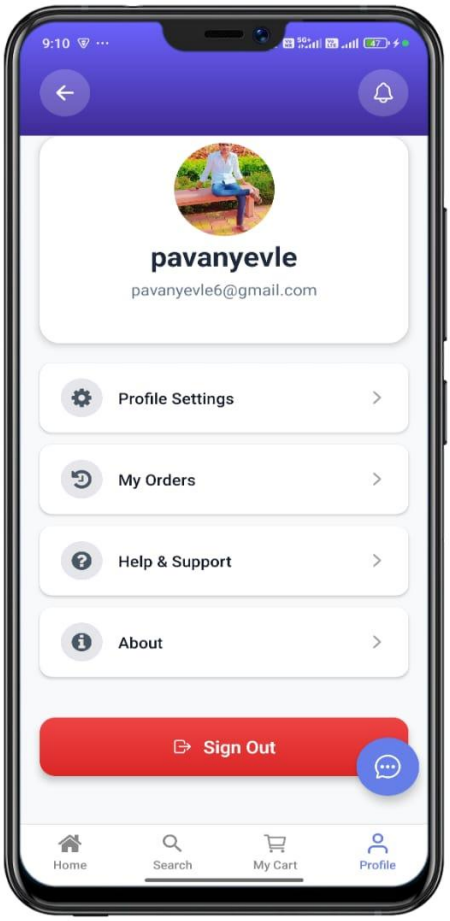
6.5 Profile Screens

Purpose:

The Profile Screen allows the user to manage personal details, view orders, access support, and sign out of the FastFood app. It acts as a centralized account settings section for user profile management.

Features:

- **Profile Header**:
  - Displays user profile picture.
  - Shows full username (pavaneyvle) and registered email (pavaneyevle6@gmail.com).
- **Actionable Items**:
  - **Profile Settings** – To update user details such as name, address, or password.
  - **My Orders** – Navigates to the order history screen.
  - **Help & Support** – Contact support or view FAQs.
  - **About** – App version, developer info, or terms & conditions.
- **Sign Out Button** – Red colored button at the bottom for logging out securely.
- **Bottom Navigation Bar** – Highlights the **Profile tab**, with quick access to Home, Search, Cart, etc.



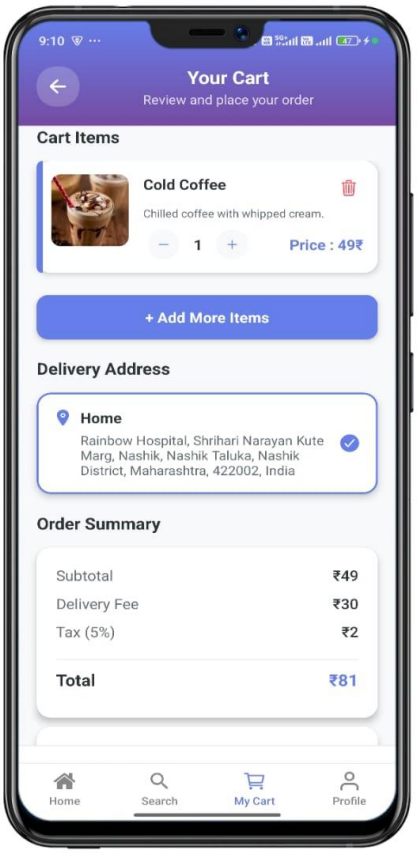
6.6 My Cart Screens

Purpose:

This screen is used to review cart items, select a delivery address, and view the final billing details before placing the order. It provides a seamless order confirmation experience for the user.

Features:

- **Cart Items Section**:
  - Displays the food item added to the cart with image, title, and description.
  - Includes quantity control buttons (+, -) to increase or decrease item count.
  - Shows item price and a delete icon to remove the item from the cart.
- **Add More Items Button**:
  - Allows the user to return to the menu and add more food items before checkout.
- **Delivery Address**:
  - Dropdown or selection box to choose saved delivery address (e.g., Home).
  - Uses location icon for visual guidance.
- **Order Summary Section**:
  - Displays detailed price breakup:
    - Subtotal
    - Delivery Fee
    - Tax (5%)
    - **Total amount payable**
- **Estimated Delivery Info**:
  - Shows estimated delivery time (e.g., 30–35 minutes).
  - Confirms delivery location.



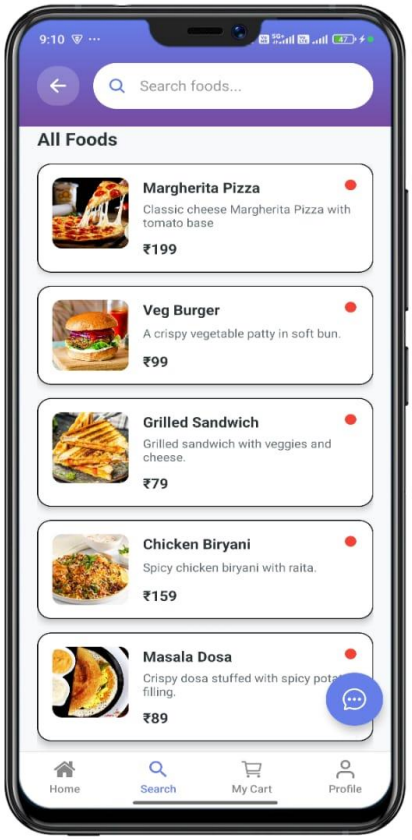
6.7 Search Screens

Purpose:

This screen displays a complete list of available food items from the FastFood app. Users can browse, search, and view details of different dishes before adding them to the cart.

Features:

- **Search Bar**:
  - Positioned at the top of the screen to allow users to search by dish name or keywords.
  - Includes search icon and placeholder text “Search foods…”
- **All Foods List**:
  - Each food item is displayed in a card layout with:
    - **Thumbnail Image**
    - **Food Name**
    - **Short Description**
    - **Price (₹)**
    - **Availability indicator (e.g., red dot for available/out of stock)**
  - Scrollable vertically for long list of dishes.
- **Floating Chat Button**:
  - Positioned at bottom-right for quick support or chatbot help.
- **Bottom Navigation Bar**:
  - Highlights **Search** tab in this screen, with access to Home, Cart, Orders, and Profile.



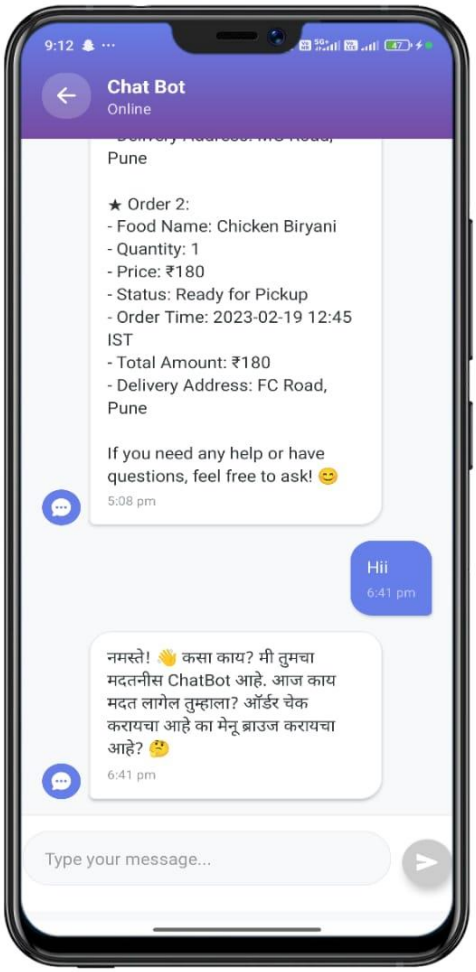
6.8 ChatBot Screens

Purpose:

This screen provides real-time chatbot assistance to users. It acts as a virtual guide, helping users with queries related to ordering, food menu, and app usage. It ensures better user experience and reduces manual customer support needs.

Features:

- **Chat Interface**:
  - Shows conversation between user and bot.
  - Bot responds with predefined smart replies and instructions.
  - Messages include text formatting, numbering (for steps), and polite tone.
- **Bot Availability Status**:
  - Shows that the bot is “Online” to assure the user of active support.
- **User Message Input**:
  - Text box at the bottom allows users to type and send their queries.
  - Send button triggers the bot response.
- **Bot Response Example**:
  - Guides user on how to order food in 4 easy steps.
  - Encourages the user to ask more questions and offers help proactively.



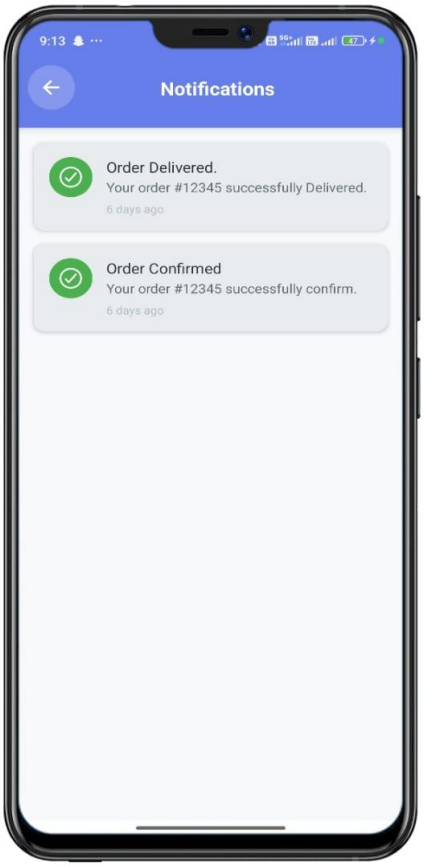
6.9 Notification Screens

Purpose:

The Notification Screen is used to display updates related to orders, offers, system messages, and important alerts. It keeps the user informed in real-time and improves app engagement.

Features:

- **Title Bar**:
  - Screen heading “Notifications” is shown clearly with a back arrow for easy navigation.
- **Empty State Display**:
  - When there are no current notifications, a clean UI is shown with:
    - Bell icon (muted)
    - Message: “No Notifications Yet”
    - Sub-text: “You’re all caught up. We’ll notify you when something new arrives.”
- **Real-time Notification Support**:
  - This screen is designed to dynamically populate with push notifications using Firebase Cloud Messaging (FCM).



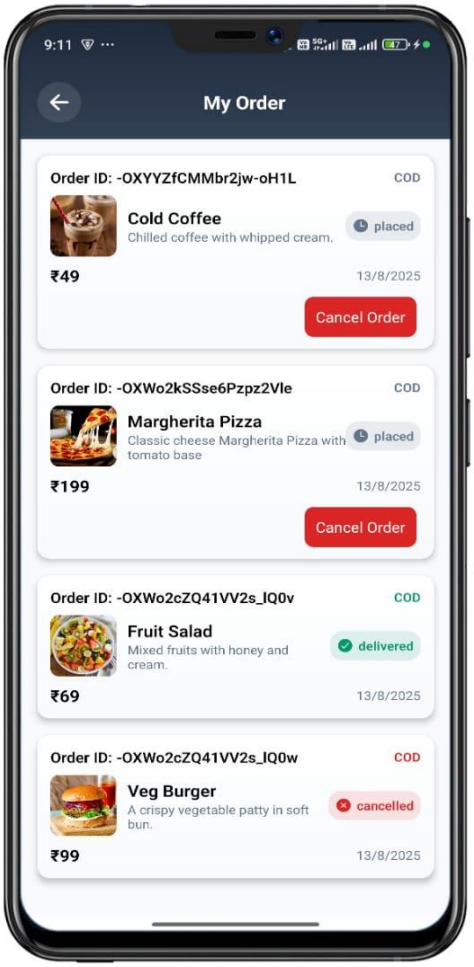
6.11 My Orders Screens

Purpose:

The **My Orders** screen displays the history of all orders placed by the user. It allows users to view item details, payment type, order status, and cancel orders if required.

Features:

- **Order Cards**:
  - Each order is displayed as a separate card showing:
    - **Order ID**
    - **Food Image & Title**
    - **Short Description**
    - **Price (₹)**
    - **Order Date**
    - **Payment Type (e.g., COD)**
    - **Order Status (e.g., Placed)**
    - **Cancel Order** button (if allowed)
- **Status Badge**:
  - Clearly indicates the status of the order with a badge – e.g., "Placed", "Delivered", etc.
- **Cancel Order Option**:
  - Active "Cancel Order" button provided for eligible orders.
- **Back Button**:
  - Located at the top-left for easy return to the previous screen.



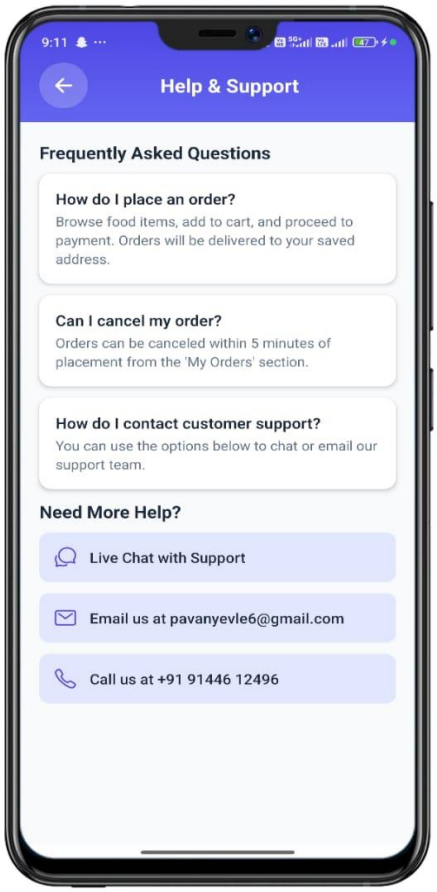
6.12 Help & Support Screens

Purpose:

The **Help & Support** screen provides users with quick answers to frequently asked questions and direct ways to contact customer support via chat, email, or phone.

Features:

- **Frequently Asked Questions (FAQs)**:
  - **How do I place an order?** → Instructions for browsing food, adding to cart, and completing payment.
  - **Can I cancel my order?** → Explains the time window and method for cancelling orders from the "My Orders" section.
  - **How do I contact customer support?** → Suggests available contact methods like email and chat.
- **Need More Help Section**:
  - **Live Chat** – Directs users to an in-app support chatbot or live agent.
  - **Email Support** – Shows the support email: pavaneyvle6@gmail.com
  - **Phone Support** – Displays customer care number: +91 91446 12496
- **Back Navigation** – User can return to the previous screen easily using back arrow.



6.13 About Screens

Purpose:

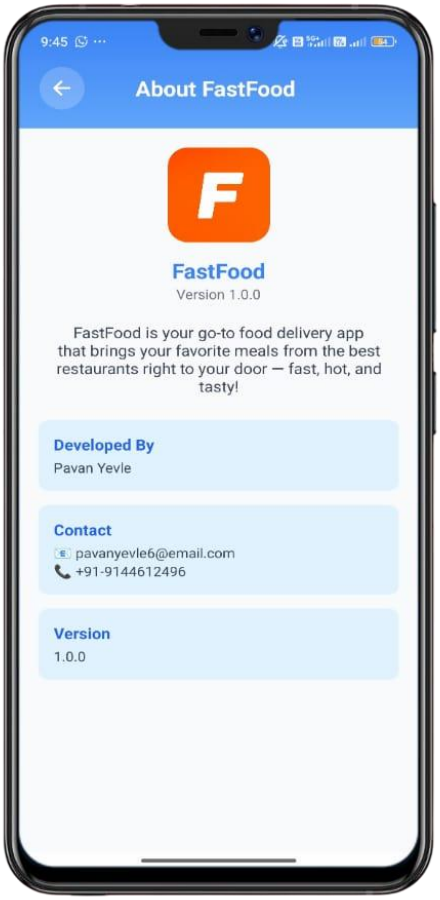
The **About FastFood** screen provides general information about the application, including version details, description, and developer contact information.

Features:

- **App Branding**:
-
    - Displays the **FastFood** app logo prominently at the top.
    - Shows app name and version (e.g., Version 1.0.0).
- **App Description**:
    - Explains the purpose of the app in a simple line:

      "FastFood is your go-to food delivery app that brings your favorite meals from the best restaurants right to your door — fast, hot, and tasty!"

- **Developer Information**:
    - **Developed By**: Pavan Yevle
    - **Contact Email**: pavaneyvle6@email.com
    - **Phone Number**: +91-9144612496
- **Back Navigation**:
    - A back arrow button at the top to return to the previous screen.



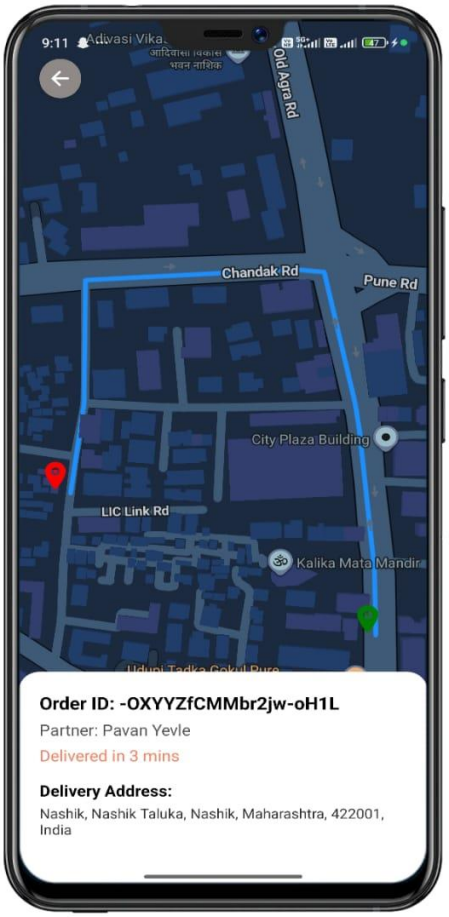
6.14 Order Status Screens

Purpose:

The Delivery Tracking screen allows users to monitor the live location of their order, view the estimated delivery time, and access order details, ensuring full transparency from dispatch to delivery.

Features:

- **Live Map Tracking:**
  - Displays the route from the restaurant (green marker) to the customer's address (red marker).
  - Shows the current position of the delivery partner along the route.
- **Order Details Section:**
  - **Order ID:** -OXTDPiadiFDZa-dnCAN
  - **Partner Name:** Pavan Yevle
  - **Delivery Time Status:** "Delivered in 6 mins"
- **Delivery Address Display:**
  - Full address: Nashik, Nashik Taluka, Nashik District, Maharashtra, 422001, India
- **Nearby Location Markers on Map:**
  - Highlights nearby hotels, markets, hospitals, and bus stops for context.
- **Clear Visual Indicators:**
  - **Green marker →** Delivery Partner Location
  - **Red marker →** Customer location
  - **Blue line →** Delivery route



7. Challenges and Solutions

7.1 Technical Challenges

- Real-time Order Tracking
  Solution: Firebase Realtime Database
- Push Notifications
  Solution: Firebase Cloud Messaging
- Location Services
  Solution: React Native Geolocation

8. Future Enhancements

- Multiple Payment Gateways
- Social Media Integration
- Restaurant Partner Portal
- Analytics Dashboard
- Multi-language Support

9. Conclusion

FastFood successfully demonstrates a modern food delivery application with real-time features and smooth user experience. The project showcases practical implementation of mobile app development concepts using React Native and Firebase.

11. References

- React Native Documentation
- Firebase Documentation
- Material Design Guidelines
- Stack Overflow
- GitHub Repositories