**Pizzero Android App Documentation**

**Project Overview**

**Start Date**: January 7, 2025

**Completion Date**: April 31, 2025

**Duration**: 4 months

**Introduction**

**Pizzero** is an Android application that provides a seamless experience for users to order delicious pizzas from the comfort of their homes. The app offers a wide variety of pizzas. Users can customize their orders, build theri own pizza, track delivery, and enjoy exclusive discounts.

**Features**

1. **User Authentication**:
   * User registration and login with email/password or google account.
   * Secure authentication using JWT tokens.
2. **Menu Browsing**:
   * Explore a wide range of pizzas,.
   * Categorized menu for easy navigation (e.g., Vegetarian, Non-Vegetarian).
3. **Customization**:
   * Customize pizzas with preferred toppings, crust types, and sizes.
4. **Order Management**:
   * Add items to the cart and view the total cost.
   * Apply discount coupons during checkout.
5. **Delivery Tracking**:
   * Real-time order status updates (Order Received, Preparing, Out for Delivery, Delivered).
   * Live map tracking of the delivery person.
6. **Push Notifications**:
   * Receive updates on new offers, discounts, and order status.
7. **User Profile**:
   * Update personal details like address and contact number.
   * View order history and saved payment methods.
8. **Payment Integration**:
   * Multiple payment options (Credit/Debit cards, UPI, Wallets, Cash on Delivery).
   * Secure transactions with SSL encryption.

**Technology Stack**

**Frontend**:

1. **Language**: Java/TypeScript
2. **Framework**: Android SDK
3. **UI Design**: Figma

**Backend**:

1. **Language**: Angular Ionic Framework/Java (Spring Boot)
2. **Database**: MySQL
3. **APIs**: RESTful APIs for data exchange
4. **Hosting**: Linode or Render

**Third-party Services**:

1. Payment Gateway: Stripe/PayPal
2. Push Notifications: Firebase Cloud Messaging (FCM)
3. Maps: Google Maps API

**Contributors**

1. **Lungile Hlakanyane** - Lead Developer
2. **Lungile Hlakanyane** - UI/UX Designer
3. **Lungile Hlakanyane** - Backend Developer
4. **Lungile Hlakanyane - Frontend Developer**

**Future Enhancements**

1. Integration with voice assistants for placing orders.
2. Loyalty program for frequent users.
3. Support for multiple languages.

**Total Estimated Cost**

|  |  |
| --- | --- |
| Component | Cost Range (ZAR) |
| Development | 240,000 – 420,000 |
| Design | 45,000 – 75,000 |
| Backend | 112,500 – 200,000 |
| Hosting & Infrastructure | 36,000 – 72,000 |
| Testing & QA | 25,000 – 40,000 |
| Marketing & Launch | 30,000 – 60,000 |
| Maintenance (1 Year) | 120,000 – 240,000 |
| **Total** | **608,500 – 1,107,000** |

*This cost estimate provides a comprehensive view of the investment required to develop the* ***Pizzero android App*** *in South Africa. Adjustments can be made based on specific business needs or budget constraints.*

**Contact**

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