

AI BASED ERP & POS SYSTEM

PROJECT PROPOSAL

CRIPCOCODE ARTIFICIAL INTELLIGENCE PRIVATE LIMITED
(U62091WB2025PTC282327)

1. Company & Project Overview

CRIPCOCODE ARTIFICIAL INTELLIGENCE PRIVATE LIMITED proposes a next-generation AI Based ERP & POS System designed to automate and digitize complete business operations. The solution combines a traditional ERP, POS billing system, and an advanced no-touch, voice-enabled AI platform.

2. Project Modules

The project consists of the following major modules:

- Normal ERP System
- POS (Point of Sale) System
- Billing & Invoice Management System
- No-Touch & Voice Based AI ERP
- Flutter-based Android Mobile Application

3. Normal ERP System Features

- User & Role Management (Admin, Staff, Accountant)
- Accounting, GST & Tax Management
- Inventory & Stock Control
- Warehouse & Multi-Location Management
- Customer & Vendor Management
- Reports & Business Analytics Dashboard

4. POS (Point of Sale) System

- Fast retail billing interface
- Barcode & QR code scanning
- Real-time stock update
- Multiple payment modes (Cash, UPI, Card)
- Discount & offer management
- POS compatible with malls, retail stores, and supermarkets

5. Billing & Invoice Management System

- Automated billing system
- GST-compliant tax calculation
- PDF invoice generation
- Invoice sharing via WhatsApp & Email
- Sales receipt & refund management

6. No-Touch & Voice Based AI ERP

- Voice-controlled billing & POS operations
- AI speech recognition (English / Hindi / Bengali)
- Automatic product identification
- Hands-free checkout experience
- Reduced billing time and human error

7. Flutter-Based Android Mobile Application

- Flutter-based Android application
- POS billing from mobile device
- Inventory & stock checking
- Sales & revenue reports
- Customer & order management
- Real-time sync with ERP backend

8. AI Capabilities

- Speech-to-Text & NLP engine
- Smart inventory demand prediction
- Customer purchase behavior analysis
- AI-driven business insights & recommendations

9. Technology Stack

Frontend:

- Web Admin Panel: React.js
- Mobile App: Flutter (Android)

Backend:

- Node.js & Express.js

Database:

- MongoDB

Integrations:

- AI Speech APIs

- WhatsApp Business API
- Payment Gateway APIs

10. Security & Compliance

- JWT authentication & role-based access
- Secure APIs & encrypted data
- Cloud hosting with automated backup & recovery

11. Business Benefits

- Unified ERP + POS platform
- Faster billing & checkout
- Touchless & AI-powered operations
- Reduced operational cost
- Scalable & future-ready solution

12. Conclusion

This AI Based ERP, POS & Billing System developed by CRIPCOCODE ARTIFICIAL INTELLIGENCE PRIVATE LIMITED provides a complete, intelligent, and scalable business management solution for retail stores, malls, and enterprises.

