Vyapar App – Full Detailed Project Report (DPR)

Version: 1.0
Prepared For: Billing, Accounting & GST Platform
Target: MSMEs & SMEs in India

1. Executive Summary

Vyapar App is an end-to-end billing, accounting, inventory, GST, and business management platform designed for Indian MSMEs. The objective is to digitize day-to-day accounting operations, ensure GST compliance, and improve cash flow visibility through automation and analytics.

2. Functional Modules Overview

- User & Business Setup
- Billing & Invoicing
- Inventory Management
- Accounting & Ledgers
- GST Management
- Payments & Receivables
- Reports & Analytics
- Offline Sync Engine
- Security & Compliance
- Admin & Configuration

3. Module-wise API Specification (High Level)

Module	API	Method	Description
Auth	/api/auth/login	POST	User login via OTP/password
Business	/api/business/create	POST	Create business profile
Invoice	/api/invoice/create	POST	Generate GST invoice
Inventory	/api/item/add	POST	Add or update item
Accounting	/api/ledger/fetch	GET	Fetch ledger entries
GST	/api/gst/gstr1	GET	Generate GSTR-1 data
Payments	/api/payment/record	POST	Record payment

4. Database Schema (ERD – Logical)

Core Entities: User, Business, Party, Item, Invoice, InvoiceItem, Ledger, Payment, GST_Report.
Relationships:
- One Business → Many Users
- One Business → Many Invoices
- One Invoice → Many Invoice Items
- One Party → Many Invoices & Payments

5. Jira Epics & User Stories

Epic 1: User Onboarding & Authentication

Story 1: As a user, I want to register using mobile OTP so that onboarding is quick.
Story 2: As an owner, I want to create my business profile with GSTIN.

Epic 2: Billing & GST Invoicing

Story 1: As a seller, I want to generate GST invoices so that I remain compliant.
Story 2: As a user, I want to share invoices via WhatsApp.

6. Automation & Test Strategy

Testing Levels:
- Unit Testing (JUnit / Jest)
- API Testing (Postman / RestAssured)
- UI Automation (Cypress / Appium)
- Performance Testing (JMeter)

Automation Coverage Target: 80% core flows
CI/CD: GitHub Actions / Jenkins

7. Conclusion

This DPR serves as a complete blueprint for designing, developing, testing, and scaling the Vyapar App platform. It can be used for investor discussions, engineering execution, and long-term product roadmap planning.